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**Supplementary Table 1:** Characteristics of experts

Number	Gender	HIC/LMIC	Education (if available)
1	Male	HIC (Canada)	MD, MPH
2	Male	HIC (Switzerland)	M.D., FEAPCCT
3	Male	HIC (Saudi Arabia)	
4	Female	HIC (Ireland)	PhD in pharmacy
5	Male	HIC (Israel)	MD
6	Male	HIC/LMIC	MD
7	Female	LMIC (Egypt)	BPharm, Masters in International Health
8	Male	HIC (Spain)	MD, PhD, MS
9	Male	HIC (France)	
10	Male	LMIC (Jordan/Malaysia)	PharmD
11	Male	LMIC (India)	Master's Degree, Hospital & Health Information Management
12	Female	LMIC (Sri Lanka)	MD
13	Male	HIC/LMIC (UK/Kenya)	MPH, MBA,LLB (law)
14	Male	LMIC (Tunisia)	MD
15	Female	LMIC (Iran)	PharmD, MPH
16	Female	LMIC (Ghana)	MPH
17	Male	LMIC (Ghana)	BPharm MSc (epid) PhD
18	Male	LMIC (Malaysia)	PhD in social pharmacy
19	Male	LMIC (Ethiopia)	PhD in pharmacy
20	Male	LMIC (Nigeria)	Pharmacist
21	Female	HIC (Denmark)	PhD in social pharmacy
22	Male	HIC (UK)	LLM (law)
23	Male	HIC/LMIC (Norway/Iran)	Nursing

24	Male	HIC (UK)	PhD in Pharmacology
25	Female	HIC (Finland)	Ph.D in pharmacy
26	Female	HIC (Ireland)	Registered nurse, MSc Healthcare Ethics and Law
27	Female	HIC (Norway)	Ph.D
28	Male	HIC (Spain)	MD
29	Male	HIC (UK)	MRPharmS
30	Male	HIC (Belgium)	Pharmacist
31	Female	HIC (Australia)	PhD, masters in nursing science, MPharm
32	Female	HIC (New Zealand)	MPharm PhD
33	Male	HIC (USA)	PhD
34	Male	HIC (Switzerland)	PhD in public health
35	Female	HIC (Ireland)	Pharmacist
36	Female	HIC (UK)	PhD in pharmacy
37	Female	HIC (UK)	MD
38	Male	HIC (UK)	MD, consultant anaesthetist
39	Female	HIC (US)	MD, Master of Science in Public Health
40	Female	HIC (UK)	Pharmacist
41	Female	HIC (Netherlands)	PhD in pharmacy, MSc epidemiology
42	Female	HIC (USA)	PhD in Pharmacy Administration

**Supplementary Table 2:** Final ranks for 333 proposed research questions based on the scores from 42 experts in medication safety. Specific scores, ranging from 0-100, are presented for each of the 6 priority-setting criteria: answerability, effectiveness, innovativeness, implementability, potential for burden reduction and equitability. Questions are ranked according to their overall research priority scores (RPS), which also has a maximum theoretical range of 0-100%. Average expert agreement, which can theoretically range from 25-100%, is also provided for each question.

RANK ALL	RESEARCH QUESTION	ANSWERABLE	EFFECTIVE	INNOVATIVE	IMPLEMENTABLE	BURDEN REDUCED	EQUITABLE	RPS	AEA
1	To assess how the incidence of harm due to prescribing errors can be reduced by different interventions in low- and middle-income countries.	94	95	74	84	97	91	89.2	0.643
2	To assess the prevalence, main factors responsible and the effective interventions for preventing severe avoidable medication related patient harm in resource-limited settings through pilot studies.	90	92	76	85	90	88	86.8	0.575
3	To identify affordable and effective methods of improving medication literacy among patients in resource limited settings	91	91	73	89	87	89	86.7	0.615
4	To develop a predictive algorithm to identify individuals who are at risk of serious medication-related harm.	88	91	90	79	94	76	86.2	0.742
5	To investigate the role of health communication strategies to support patients with limited language proficiency, health literacy and education in taking medications safely.	89	88	73	85	85	95	85.8	0.571
6	To assess the impact of increasing the amount of trained human resources to reduce medication errors in low- and middle-income countries	91	87	79	80	90	81	84.6	0.599

7	To develop and validate a complexity score (c-score) to identify the patients who are at risk of readmission in 30 days due to medication errors which could be used by pharmacists and physicians.	91	85	79	90	88	72	84.3	0.631
8	To improve medication safety for in- patients, through the application of ergonomics and human factors in the organization of the medications flow: order, distribution, stocking, preparation and administration.	92	86	76	86	89	75	83.9	0.575
9	To identify the most effective empowerment methods and tools for patients and their caregivers to speak up when they see the potential for medication-related harm, especially applicable to patients in LMICs, as often the most impacted individuals are poorer and less educated.	85	79	84	79	82	94	83.6	0.595
10	To develop and validate a complexity score (c-score) for patients in need for de-prescribing which would help the physicians or pharmacists identify the high-risk patients who might develop drug-drug interactions.	91	84	80	86	84	75	83.3	0.563
11	To identify and develop globally applicable pictograms for selected highrisk medications which would convey the critically important safety information.	87	82	72	83	88	87	83.1	0.536
12	To conduct a study investigating the types of medication-related harm that occur in transitions between hospitals and primary care settings in LMIC.	97	86	63	83	89	80	82.8	0.571

13	To create patient knowledge-building tools for medication safety with critical thinking to ensure they are usable for people with low level of literacy, in a reliable format and addressing the role of internet as an information source.	88	83	80	81	78	86	82.6	0.623
14	To investigate how technologies could be appropriately implemented and scaled in LMICs to better ensure that drugs are not spoiled, diverted, counterfeited, and that supply chain performance is optimized to avoid stock outs and drug shortages.	83	90	70	83	84	82	82.0	0.452
15	To compare the benefits of pictorial information in medication instructions to written instructions alone, in improving medication safety. To what extent, in what contexts and formats is pictorial information most beneficial?	88	78	80	80	76	83	81.0	0.500
16	To identify what national strategies and/or policies for medication safety across high-, middle-, and low-income countries exist. What gaps remain in identifying and implementing these prevention strategies/policies?	95	84	63	75	82	85	80.8	0.540
17	To evaluate the impact of medication reconciliation in preventing medication errors in low-income countries.	94	85	63	73	85	83	80.6	0.563
18	To identify indicators of medication safety that have been utilised in low-resource settings. What is known about their validity, reliability, and feasibility, and what potential indicators should be introduced?	93	80	69	83	78	80	80.6	0.508

19	To investigate how to ensure patient safety for patients utilizing oral home-based chemotherapy administration: maximising patient education and monitoring systems.	91	85	76	86	77	69	80.6	0.548
20	To identify the reliable easily measured indicators to assess medication safety both at facility level and at national level	88	83	67	86	80	73	79.6	0.540
21	To evaluate the effectiveness of the Medication Without Harm Challenge by using Interrupted Time series to assess the implemented policies to prevent medication errors by measuring the situation prior and after (e.g. 6 months before and after) the introduction of the implementation of the policy.	89	84	71	81	79	69	79.0	0.528
22	To determine the prevalence and potential clinical outcomes of medication errors in (1) primary care settings, and (2) hospitals in low resource countries.	87	81	70	75	79	80	78.8	0.567
23	To identify the most frequent patient- caused medication errors that occur at home and assess what strategies could be implemented.	89	82	77	81	80	64	78.8	0.599
24	To identify and create recommendations for the most effective approach to decision support alerts in electronic prescribing systems, the optimum sensitivity and specificity and criteria which should be used to enable prescriber to receive alerts but not receive alert fatigue.	89	83	70	84	83	63	78.7	0.468

25	To assess cost-effective methods to keep track of what medicines a patient has taken and is taking, investigate how to record and share patient medication histories across different health infrastructures in order to reduce medication errors leading to medication-related patient harm?	81	85	66	81	85	74	78.7	0.571
26	To assess the prevalence of medication errors among patients who self-administer their medication in home setting and assess different methods of patient education as an intervention.	83	80	83	79	79	69	78.6	0.599
27	To test the use of a patient decision support system in order to ensure patient safety within self-management of medications in chronic conditions, with the remote support of health professionals and group of peers (patient experts).	85	75	78	80	77	76	78.4	0.480
28	To quantify the impact of electronic systems and knowledge-based clinical decision support on reducing medication-related harm in LMICs, by implementing this technology to smartphones.	87	79	84	78	75	66	78.3	0.508
29	To develop and test a core set of medication safety indicators, applicable for different contexts and countries worldwide. The set of core indicators may differ according to income level of country.	86	79	71	76	75	83	78.3	0.544
30	To identify pictograms which could be used to teach patients about their medicines	89	72	63	80	82	83	78.2	0.468

31	To identify and create new indicators and metrics for medication safety to measure better the impact of medication safety work.	81	82	78	81	77	69	78.2	0.512
32	To investigate the effects of different interventions before/during/after the hospital discharge to ensure patients know and understand the information on their medication.	89	82	59	80	82	76	78.0	0.528
33	To evaluate the reduction in medication errors at a local level after introducing a program which aims to increase the role of patients in medication safety, engage them in their care and increase patient counselling, in minimizing the incidence of medication-related harm.	84	84	71	80	79	69	77.8	0.563
34	To evaluate which tools can be most useful to measure medication safety and determine the impact of measures that are implemented over time	83	83	67	83	81	68	77.6	0.536
35	To develop a mobile technology tool for patient and clinician use, aiding appropriate polypharmacy in LMIC.	88	83	79	70	74	71	77.4	0.448
36	Can implementing interventions related to barriers to de-prescribing, in patients with multi-morbidity and polypharmacy, minimise morbidity, mortality, reduce financial burden, improve medication adherence leading to enhance patient safety?	79	81	70	80	82	71	77.2	0.560
37	To assess how decision support systems can be integrated with patient data, the culture barriers to rational prescribing in resource poor countries and how electronic prescribing systems relate to traditional medicine.	78	84	78	70	79	73	77.1	0.476

38	To study the feasibility, impact and scalability of decision support tools to assist clinicians in safe medication prescription practice	92	83	56	77	84	70	76.9	0.528
39	To assess the reporting and learning of medication error systems at global and regional level and their impact on system change	90	81	67	74	74	76	76.8	0.591
40	To evaluate medication discrepancies, communication, documentation and the role of medication reconciliation across care transitions in preventing medication-related patient harm.	93	89	47	78	88	66	76.8	0.520
41	To develop a pilot implementation tool kit to improve medical and health care safety processes, applicable for different contexts and countries worldwide.	77	77	75	75	76	80	76.8	0.496
42	To identify certain group of diseases and patient groups that correlate to higher chances of experiencing a medication-related error and would such greatly benefit from conducting routing medication reviews and medication reconciliation.	80	85	61	82	81	72	76.6	0.639
43	To assess which aspects of organizational culture and/or context can help to prevent medication-related patient harm.	87	80	66	78	75	73	76.6	0.520
44	To examine the impact of the Essential Medicines List in LMIC, to prevent and address inappropriate polypharmacy at transitions of care.	80	73	74	77	73	81	76.4	0.464

45	To assess how in resource poor countries/regions, evidence-based medication management systems which cover from prescribing to administering drugs can be implemented, and what organizational and cultural requirements are needed to implement such systems?	77	79	73	68	78	82	76.4	0.492
46	To identify strategies to enhance patient communication processes on medication management in hospitals and across transitions of care.	87	77	69	79	78	67	76.3	0.544
47	To investigate the impact of addressing high alert medications on morbidity and mortality in two pilot sites, one in LMIC and one HIC.	80	76	65	82	79	74	76.2	0.571
48	To research into the utilization of digital health services monitoring large population health records to surveil adverse drug reaction signals.	81	73	83	79	81	60	76.2	0.452
49	To examine errors in chemotherapy dosage and/or administration, what organisational changes can be implemented to prevent them from occurring?	90	84	58	84	74	67	76.0	0.536
50	What are the most frequent causes of severe, avoidable medication-related harm in high-, middle-, and low-income countries? If this is not known, what steps need to be taken to build and/or strengthen surveillance systems to identify medication-related harm?	82	76	62	77	81	77	76.0	0.532
51	To evaluate the economic impact of interventions targeted to reducing medication-related adverse events.	88	82	65	73	75	72	75.8	0.496

52	To perform a multi-modal analysis utilising a mixed methods approach assessing human factors, to analyze the most effective medication administration practices to prevent patient harm.	83	80	72	74	78	67	75.7	0.456
53	To evaluate the role of human factors, ergonomics and error-proof designing of health care facilities as a medication safety strategy	89	77	73	80	75	59	75.6	0.480
54	To conduct a patient-centered study on the effectiveness of medication counseling on decreasing misuse and identifying errors.	84	77	70	78	75	70	75.6	0.520
55	To examine the barriers to medication reporting amongst health care professionals in LMIC and what can be done to overcome them.	89	77	69	75	71	72	75.5	0.579
56	To investigate identification systems (correct patient, correct route) and functional designs of hospitals to facilitate safe administration of medicines to patients with cognitive impairment.	84	77	57	81	80	74	75.5	0.480
57	To conduct a study across institutions identifying system-level barriers to implementation of evidence-based health literacy practices.	88	74	69	70	72	79	75.5	0.460
58	To identify globally applicable list of questions patients should know about their medications.	87	78	55	75	74	84	75.3	0.536

59	To determine the extent of harm contributed by sub-standard, spurious, falsified and counterfeit medicines (SSFFC) to patient safety. How to reduce the prevalence and incidence of SSFFC medicines in LMIC for better health outcomes?	69	81	60	76	84	82	75.3	0.520
60	To investigate the correlations between patient education and engagement with adherence to medication, inappropriate prescriptions and adverse drug events; and to identify which education tools are effective and sustainable.	78	75	74	81	76	68	75.1	0.532
61	To evaluate the role of service design and technology in improving safety at transitions of care	80	79	77	76	78	61	75.1	0.512
62	To assess how globally data on medication errors and medication related harm is recorded beyond pharmacovigilance and implement a global database which would collect data on medication errors and near misses that especially low- and middle-income countries could report to.	75	73	73	73	72	84	74.9	0.504
63	To investigate cost-effective, multidisciplinary practices for optimising patient pharmacotherapy, especially for patients with chronic conditions and multi-morbidity.	83	83	56	79	84	64	74.8	0.563
64	To perform a qualitative study on patient's perspective: what is their role in medication management during transitions of care and what do they think it could be? Identify strategies used to engage patients in medication management during transitions of care. What are the barriers and facilitators to these strategies, and to assess the	85	77	69	82	71	65	74.8	0.536

	effectiveness of the identified strategies?								
65	To evaluate forms of optimizing drug prescribing in the elderly in collaboration of pharmacists and GPs.	84	84	45	82	82	70	74.8	0.492
66	To examine the most frequent cause of hospital admissions in polypharmacy patients. What strategies can be implemented to reduce the risk?	85	83	52	77	87	64	74.7	0.508
67	To create a cost-effectiveness study to identify mechanisms that support safe prescribing for elderly, poly-medicated patients.	84	84	60	77	76	68	74.7	0.464
68	To identify globally applicable list of minimum questions health care professionals should ask their patients before dispensing or prescribing medications.	89	73	67	80	70	68	74.6	0.520
69	To conduct exploratory research into how potential medication safety issues can be predicted in a timely manner, with the use of algorithms based on clinical data.	76	76	91	72	75	57	74.6	0.444
70	To perform a mixed-methods study examining the role patients and families play in contributing to medication errors due to non-adherence or overadherence, and how much of this is due to issues with regards to access or health literacy? What evidence-based interventions exist?	83	78	67	79	70	70	74.5	0.647

71	To conduct an observational study examining the handling of high-risk medications across the continuum of care, and to identify strategies to ensure its safe use.	84	80	63	79	78	62	74.3	0.591
72	To identify best strategies to avoid inappropriate self-medication with antibiotics.	88	86	48	79	72	73	74.2	0.520
73	To design and implement an information campaign aimed at patients to increase patient empowerment in reducing medication-related harm by addressing: transparency and completeness of information to be shared with healthcare providers, storage of medication, medication adherence, medication shifts, possible adverse effects and adverse drug reaction reporting.	80	77	59	80	73	76	74.2	0.552
74	To identify effective communication strategies to ensure medication safety in transitions of care (incl. Appropriate medications and education on those medicines)?	91	85	50	77	80	61	73.9	0.484
75	To explore novel ways, we can utilise technology (applications and other automation) to reduce adverse medication-related events. What is the role for technology in assisting patient monitoring and correct use of medications?	86	74	68	79	77	59	73.9	0.524
76	To implement national level controlling and monitoring of safety of herbal medications.	84	70	57	83	79	71	73.8	0.437

77	To identify which remediable human factors are the most important to provide safe prescription and administration of medicines?	88	84	58	80	76	56	73.7	0.484
78	To identify factors that influence patient decision-making about polypharmacy, to develop decision aids for patients to help them take part on the discussion of taking multiple medications.	79	71	71	72	71	75	73.5	0.409
79	To conduct a cost-effective analysis on interventions to reduce avoidable drug-related hospital admissions.	79	84	54	79	79	65	73.4	0.544
80	To investigate what are the most effective and cost-effective interventions carried out at the individual and community-level, to help reduce inappropriate antimicrobial use and reduce antimicrobial resistance.	89	78	50	79	79	66	73.4	0.508
81	To increase awareness among regulators and pharmaceutical industry how lookalike containers, poor visibility of key information (e.g. Active pharmaceutical ingredient) can cause medication errors and assess if dispensing only the necessary dose (breaking the fixed package when needed) would increase rational use of medicines.	85	80	54	79	82	60	73.3	0.429
82	To examine global legislation for medication safety, what policies are fundamental for assuring and improving medication safety?	88	77	58	70	77	70	73.3	0.500
83	To conduct an intervention study on the impact of medication dispensing technology in preventing and/or reducing medication errors.	91	79	53	78	77	63	73.3	0.488

84	To conduct a study amongst health practitioners identifying at the practitioner-level barriers to implementation of evidence-based health literacy practices for explaining medications to patients and their families.	79	71	66	73	71	80	73.3	0.472
85	To design a patient pathway based monitoring framework and supporting metrics for evaluation of safe prescribing and administration of medicines.	75	75	75	69	76	68	73.0	0.389
86	To assess critical points of the medication process for injectable medicines in high-stakes environment, such as ED, anaesthesia, critical care, and develop strategies for improvement.	84	86	53	81	79	54	72.9	0.536
87	To develop and evaluate a pilot patient medication recording system based on a cloud platform, accessible to all health care providers in prescribing and reviewing a patient's medication.	83	79	75	67	74	59	72.8	0.520
88	To perform a cost-effective analysis on interventions to reduce preventable medication-related hospitalisations, and medication-related falls and injuries in older adults.	84	84	46	74	78	72	72.8	0.599
89	To investigate the impact, feasibility and scalability of patient education techniques to promote reconciliation and adherence delivered in a variety of ways including: pharmacy, clinic, telephone, smart phone application.	82	77	72	68	72	65	72.5	0.536
90	To create a comparative study, which would assess the effectiveness of standardized, patient carried basic medication list in a developing country compared to more involved and complex tools (e.g. best possible	76	72	68	69	71	78	72.5	0.504

	medication history lists) used in developed countries.								
91	To assess and identify the weak links in the medication safety process chain to consolidate the local systems and resolve the occurring difficulties and differences in practice.	77	85	57	74	71	70	72.4	0.468
92	What is the impact of current prescribing and medication use patterns during pregnancy on adverse birth outcomes in LMIC?	69	74	52	68	90	80	72.2	0.484
93	To conduct epidemiology studies of adverse drug events and medical errors in non-academic tertiary settings such as nursing homes, cancer centres, and community hospitals.	87	69	60	72	74	69	72.0	0.460
94	To conduct a multisite study evaluating interventions that have been successful in optimising medication error reporting and learning systems.	86	74	64	74	70	64	71.9	0.504
95	To perform a study on nurses administering medicines in long-term care settings, what is the prevalence and root cause of medication administration adverse events?	97	76	44	76	72	67	71.8	0.452
96	To evaluate forms of optimizing drug prescribing in the elderly in collaboration of pharmacists and GPs.	82	77	46	79	80	66	71.6	0.540
97	To commence a policy research on improving the impact of post-market surveillance systems to optimize patient care, drug effectiveness, and market corrections (drug recalls, etc.), including	83	71	60	77	70	69	71.6	0.429

	an assessment how the post-market surveillance systems differ across all countries and how this affects to medication safety.								
98	To examine errors related to look-alike, sound-alike medications that occur at the point of care and identify methods to prevent them.	91	77	48	77	77	58	71.4	0.472
99	To build methodological capacity in low- and medium-income countries (LMIC) with the aim of improving pharmaco-epidemiological research practices.	81	69	65	67	71	76	71.4	0.448
100	To trial a pilot intervention study of the barcode system for medication in LMIC.	83	75	63	65	72	70	71.3	0.425
101	To conduct a pilot study of the implementation of various strategies to reduce the use of potentially dangerous medications amongst elderly patients.	80	81	49	78	75	66	71.3	0.544
102	To identify the most effective strategies to enhance patient and caregiver's engagement in medication safety.	74	74	56	79	78	69	71.3	0.532
103	To identify the predictor factors for patient readmission to hospital for medication-related problems in patients with complex conditions.	78	82	61	74	74	59	71.3	0.575
104	To identify best strategies to inform the public that taking multiple medications can carry risks.	85	70	56	77	68	72	71.2	0.492

105	To identify and evaluate potential strategies into how parents and caregivers can be effectively supported with providing high-risk medications to children.	78	76	63	76	64	69	71.0	0.544
106	To investigate methods of strengthening the review system of drug names, to prevent the confusion of look-alike, sound-alike medications.	84	76	46	78	78	62	70.7	0.448
107	To design a uniform global standard of labelling for OTC medications and create recommendations for good labelling practice, including use of simple language.	83	74	60	69	72	66	70.6	0.444
108	To collect evidence on the impact of patient empowerment, engagement and patient charters on reducing severe, avoidable medication related harm.	73	75	68	77	66	64	70.4	0.508
109	To identify a set of best trigger tools to identify a declared or potential adverse effect with high risk medications.	80	76	70	73	70	53	70.4	0.480
110	To identify through systematic literature review best medication practices which could be implemented (modified to country context) in other countries?	84	72	52	71	75	69	70.4	0.456
111	To implement interventions and WHO recommendations that would ensure the correct dosage and safety of medicines for children.	73	77	44	75	77	76	70.3	0.508
112	To investigate best practices to prevent adverse drug reactions for people with previous medication-related allergic reactions and hypersensitivities.	74	78	56	78	79	57	70.3	0.520

113	To implement an information campaign which would aim to inform population in in a more conscientious way about traditional medicines and food supplements possible risks and interactions with their usual medication.	85	68	54	76	70	68	70.3	0.425
114	To design and evaluate effective interventions designed to improve the uptake of health literacy practices related to medication teaching.	73	68	69	67	69	75	70.2	0.381
115	To identify the best practices for outpatient medication reconciliation followed by creating a toolkit out of the best practices (incl. interventions aimed at patients/caregivers, staff, clinics, health systems, and communities).	84	69	58	75	74	62	70.2	0.496
116	To identify measures which would enable safer medication-taking practices at home in LMIC.	78	71	60	69	68	74	70.2	0.437
117	To investigate what areas of medication safety patients can best empower patients as guardians of safety for their own medication. What strategies can be utilized to promote this role and how can it be implemented?	75	69	66	73	67	71	70.1	0.417
118	To conduct a multisite analysis investigating hospital adverse events. What has been the impact of electronic medical record (EMR) systems, the different modes of EMR, and optimal approaches in design and delivery?	85	74	61	65	75	60	69.9	0.393
119	To design technology assisted medication administration to reduce medication errors e.g. two-tier level identification.	83	77	55	73	77	55	69.9	0.480

120	To assess the effectiveness of different implementation strategies for sustaining and/or scaling up evidence-based interventions to reduce, eliminate or ameliorate medication-related patient harm?	74	74	58	73	73	67	69.8	0.429
121	To identify weak points in the design of medication and/or its packaging and develop changes which will help reduce mistakes in medication administration.	83	74	54	73	73	60	69.7	0.397
122	To identify high-risk situations applicable globally that should be programmed in all information systems (EHRs, CPOE, e-prescribing).	77	69	66	67	70	68	69.6	0.448
123	To conduct a pilot study on elderly patients in a long-term care facility/nursing home, do routine medication reviews reduce the overuse of medications?	90	75	52	78	71	52	69.6	0.421
124	To evaluate the use of mobile technology for patients in supporting safer medicines managements, including monitoring of health conditions, education and prompting adherence?	84	70	71	69	69	53	69.5	0.433
125	To identify the best and most practical ways to measure preventable medication errors in real time and in patient-centered manner?	68	80	65	69	70	64	69.5	0.476
126	To conduct intervention study which utilizes mixed methods approach to transform a unit/hospital with high prevalence of medication errors to a low prevalence.	73	77	60	73	77	57	69.4	0.421

127	To identify through literature review most effective interventions for medication safety and evaluate and measure their effectiveness through piloting sites using pre-set indicators.	88	76	47	77	72	58	69.4	0.452
128	To investigate how medication-related harm can be measured in feasible way, which requires minimal resources, that can be adapted to existing practices and can be measured ongoing basis.	65	74	72	71	69	64	69.2	0.456
129	To conduct a multisite study analyzing the transfer and communication of medication-related information across health care settings, and between patients and providers. What are the weak points, how can current practices be strengthened?	83	66	57	73	73	63	69.2	0.456
130	To conduct a longitudinal study on how often systematic medication reviews should be performed in nursing home residents and how medication prescribing should be adjusted as treatment goals shift form preventive/curative to palliative/comforting care.	91	71	61	70	66	56	69.1	0.389
131	To assess cost-effective ways to ensure medication compliance and investigate the role of mobile technology/assistive technology, to increase compliance in resource poor settings.	78	63	68	77	64	64	69.1	0.540
132	To investigate the reliability of medication safety indicators and tools in integrated care settings.	81	73	65	75	66	55	69.0	0.429

133	To create effective techniques in medication error disclosure between health care professionals and to the patient, including legal statutes that can promote transparency.	77	70	64	70	71	62	68.9	0.389
134	How to adapt patient safety indicators obtained from routinely collected data to different contexts and countries worldwide?	65	68	68	69	71	72	68.8	0.444
135	To investigate the role of pharmacist's intervention in reducing medication errors through prospective cohort study. In which ways can the role of pharmacists be expanded to be actively involved in the medication prescribing process.	84	77	38	76	79	58	68.7	0.460
136	To examine each step of the medication process, what is the impact of interruptions in different stages and what implements can be made for improvement?	75	73	56	77	73	56	68.5	0.425
137	To conduct a pilot intervention to develop a sharing platform among hospitals for describing errors and solutions.	82	71	47	73	69	68	68.5	0.484
138	To investigate the response to opioids in middle-income countries: is the rise of opioid misuse, abuse, dependence associated with the increased availability of extended-release opioids.	76	60	66	70	70	69	68.5	0.393
139	To perform a study on the role of pharmacists in elderly patients transitions of care. What is their role, how can it be improved and what is the impact?	86	75	47	72	73	58	68.4	0.468

140	To identify and evaluate the primary national systems and/or strategies in place for identifying the burden and scope of medication-related harm in high-, middle-, and low-income countries?	84	64	50	67	73	73	68.4	0.464
141	To identify methods to reduce inappropriate prescribing of antibiotics, and to develop strategies to minimize use.	79	75	40	82	76	59	68.3	0.528
142	To perform a scoping review on devices/aids available to patients for reducing medication errors.	81	69	64	71	67	57	68.3	0.456
143	To perform a cross-sectional study across primary care facilities assessing medication safety and exploring strategies in which it can be improved.	80	70	45	81	72	61	68.2	0.476
144	To investigate medication review process, which components are vital during medication review to ensure appropriate prescribing for patients with multiple morbidities.	72	73	59	71	74	60	68.2	0.528
145	To conduct and evaluate the impact of medication reconciliation practices during transitions of care (e.g. posthospital discharge).	86	72	39	71	82	59	68.1	0.548
146	To apply modelling techniques on the intervention of specific medication problems in specific regions/countries, to ensure an effective and efficient allocation of resources.	66	66	69	61	66	79	68.0	0.377

147	To assess how to design the best environment for learning from medication-related incidents	70	69	72	67	69	61	67.9	0.464
148	To investigate the problem of fake medicines and their international trade from surveillance, prevention, and interdiction standpoint to get a better and more resolute idea of the true scope and prevalence of substandard and falsified medicines.	61	73	59	67	76	72	67.9	0.460
149	To identify and build a platform which would allow patients to access their upto-date medication list in all times regardless of the physical location.	76	76	56	67	76	56	67.8	0.512
150	To assess the health outcomes in patients with chronic conditions who receive deliberate sensitization about possible side effects, adverse effects, interactions during their visits to the clinic against another group which receives the normal (no intervention) counseling.	81	66	63	68	70	60	67.8	0.409
151	To assess the role of regulators, manufacturers and the pharmaceutical industry in reducing medication related harm.	73	70	57	67	70	69	67.5	0.429
152	To perform an observational multisite study (across tertiary, long-term care, and primary care facilities) to assess how harm from drug interactions (including traditional and complementary medicines) are averted.	88	67	57	66	67	60	67.4	0.413
153	To assess the medication safety practices in long-term care facilities	93	71	34	72	73	60	67.3	0.429

154	To test through pilot sites which are most fruitful and powerful combinations of practices, processes, and tools to prevent avoidable medication-related harm.	71	71	56	71	73	61	67.3	0.452
155	To create an evaluation framework that measures improvement initiatives so that those can be compared (by how effective, efficient, timely, patient-centred, equitable and safe each intervention is).	76	68	63	70	64	62	67.2	0.405
156	To assess the effectiveness of implementing a tool in detecting medication errors and harm in primary care?	70	75	45	73	70	70	67.2	0.468
157	To assess the human factors which affect the decision-making process during prescribing, to teach best practices to doctors.	79	69	66	67	64	57	67.1	0.476
158	To identify which human factors are either involved in or contribute to medication-related patient harm	79	70	51	73	71	59	67.1	0.480
159	To design and develop sustainable, childproof and tamperproof containers which would ensure there is no risk to take dose higher than intended (e.g. Impossible to dispense more than 10 ml before realigning it).	76	69	60	68	67	62	67.1	0.413
160	To investigate incidents of medication- related patient harm, what role and to what extent does technology and technical complexity contribute?	78	66	68	68	70	52	67.0	0.421

161	To investigate the prevalence of adverse drug events and medication errors contributed by extemporaneous compounding medications for children, due to limited access to safe and effective medicines.	66	70	63	64	68	70	66.8	0.520
162	To identify cost-effective, sustainable methods for community-based promotion of medication safety interventions.	72	75	65	67	69	53	66.8	0.393
163	To identify the best and most cost- effective ways to transfer medication records in transitions of care	78	76	55	67	73	52	66.8	0.440
164	To develop standard protocols for the preparation, administration, monitoring of insulin in acute care settings, for application internationally.	77	70	44	71	71	67	66.7	0.492
165	To investigate how having an understanding about health literacy can contribute towards ways that practitioners give information to patients about their medications.	72	68	52	65	67	76	66.6	0.405
166	To assess how innovative models of pharmaceutical care and diffusion of technology can be used to reduce medication related harm.	75	68	55	69	67	65	66.6	0.401
167	To assess the benefits technology can play in reducing medication errors caused by verbal orders, during transition of care and in engaging and educating patients on their medication.	80	69	65	63	76	47	66.5	0.413
168	To conduct a study into patient-user strategies, such as e-health and patient information, as facilitators for safe medication use and medication adherence.	78	64	68	73	62	54	66.4	0.496

169	To evaluate the prevalence of unnecessary medications and food	77	76	45	66	76	58	66.4	0.425
	supplements, drug-drug interactions and drug-disease interactions among patients who take multiple medications.								
170	To analyze the organizational and functional health care workforce: what can be better configured, developed, and managed to promote medication safety?	73	70	56	71	69	59	66.3	0.440
171	To assess how different interventions (including monitoring systems) reduce incidence of harm due to drug-drug interaction in poly-medicated elderly patients.	78	73	53	71	69	53	66.3	0.397
172	To examine the role of Artificial Intelligence in reducing medication-related patient harm from the perspective of multiple stakeholders including clinicians, patients, consumers and administrators.	75	64	78	62	67	52	66.2	0.341
173	To assess the global prevalence, burden and geographical variation of serious medication related harm through a systematic literature review.	88	65	51	67	61	64	66.1	0.484
174	To critically evaluate procedures in the transfer of medication process to ensure safe inter-unit transfer.	77	73	45	66	73	63	66.1	0.448

175	To develop safe self-administration models for patients or care takers with chronic diseases to self-administer their medication in hospital and home settings.	73	73	61	62	65	61	65.9	0.444
176	To conduct a multisite workplace analysis to determine required staffing levels to achieve minimal medication errors.	79	71	66	64	69	47	65.8	0.409
177	To apply global standards on packaging and labelling to have uniformed place and way how and where the best before date and strength of the medicine is placed in the product.	80	69	55	66	66	59	65.8	0.357
178	To identify which factors contribute to administration errors where medication is not given in nursing homes and care homes	80	67	46	73	69	59	65.6	0.365
179	To conduct an observational study in hospitals that systematically conducts medication reconciliation at discharge. How many adverse medication-related events, re-hospitalizations and deaths are avoided?	85	74	43	64	74	54	65.6	0.520
180	To examine how the role of health care professionals can be strengthened to ensure appropriate polypharmacy in the elderly.	67	64	53	71	71	67	65.5	0.452
181	To reduce harm related to interactions by supporting creation of an app which would help prescribers in reducing the risk of interactions, supporting in decision making, offering possible alternative options, such as deprescribing, while considering patient's pathologies.	78	70	61	68	67	48	65.4	0.437

182	To assess how health care professionals can prevent drug interactions (drug- drug, drug-disease) in a simple and applicable way during daily working	78	72	37	75	69	61	65.4	0.476
183	To identify the impact of the availability of the Children's Medicines List on the unmet needs of Children's Medicines in Sub-Saharan Africa.	73	63	60	62	60	73	65.3	0.325
184	To investigate the change in medication safety practice after presenting medication error root cause analysis to healthcare professionals.	80	69	55	68	64	56	65.2	0.452
185	To explore ways to increase multi- professional team work and build respectful environment where teams recognize and respect the skills of each member in ensuring medication safety.	72	64	71	67	67	50	65.1	0.433
186	To identify and assess the best ways and tools for health care professionals to provide effective information about safe use of medications to patients and caregivers.	72	74	45	71	67	60	65.1	0.464
187	To assess the influence of social determinants of health on adherence to medicines among patients with chronic diseases.	75	63	43	71	56	82	65.0	0.516
188	To identify through pilot studies best practices on how to make health care facilities and health care providers accept the existing essential drug lists; and accept the use of Standard Treatment Guidelines in countries where they exist and create them where they do not exist to ensure safe, rational use of medicines.	70	68	46	70	63	72	65.0	0.409

189	To establish the scale and burden of inappropriate non-evidence-based use of antipsychotic and antidepressants.	80	70	56	63	66	55	65.0	0.393
190	To investigate what are the specific barriers to address appropriate polypharmacy through interprofessional working in low-, middle- and high-income countries.	73	67	54	61	67	68	64.9	0.393
191	To identify gaps in deprescribing potentially inappropriate medicines in older people.	72	67	54	71	71	55	64.9	0.373
192	To review current prescribing guidelines and develop strategies to reduce overprescribing, particularly for opioids.	80	74	39	71	71	54	64.9	0.488
193	To identify the special considerations of medication safety in emergencies and create key policy recommendations on reduction of medication-related harm within the overall cycle of crises management.	73	66	61	64	67	58	64.8	0.393
194	To investigate how to increase public reporting of health care associated infections and increase rewarding/giving incentives to healthcare facilities which meet quality and safety standards.	83	61	52	64	65	63	64.7	0.345
195	To undertake exploratory research on the feasible implementation of a feedback system for physician prescribing practices.	70	68	66	70	66	49	64.7	0.437

196	To identify methods of monitoring patient medication adherence and develop evidence-based practices to improve adherence, reduce patient harm and improve outcomes.	82	78	38	72	68	50	64.6	0.540
197	To evaluate which strategies work best to ensure the accuracy of a patients' medication management across the continuum of care.	69	72	46	68	73	61	64.6	0.456
198	To conduct exploratory research on emerging technologies to prevent medication events from occurring, available for use in the patient's home and/or long-term care settings.	68	66	68	63	68	55	64.5	0.397
199	To assess the prevalence of drug-drug interactions where one of the interacting medicines is prescription medicine and the other is non-prescription medicine.	81	66	54	69	57	60	64.5	0.377
200	To form and divulge basic notions about antibiotics, their uses, operations and sequential effects for patients to understand in what moments it is correct to prescribe them and the importance of following the guidelines recommended by their physician.	81	68	33	70	70	66	64.5	0.468
201	To create instructions for countries and institutions to help them to set up a good interdisciplinary concertation/coordination to avoid drug related errors/events.	73	67	53	64	65	65	64.4	0.421
202	To design a patient pathway based monitoring framework and supporting metrics for evaluation of safe prescribing and administration of medicines.	64	67	60	61	68	65	64.2	0.373

203	To design supporting tools for health care professionals which help to prescribe and dispense appropriate medications for old people	62	66	45	72	74	65	63.9	0.429
204	To identify the challenges involving the patient and their caregivers in the campaign to improve medication safety, and what resources and support is required?	72	65	58	63	65	61	63.8	0.389
205	To investigate what percentage of medication errors are due to similarities in medication appearance.	76	68	48	70	67	53	63.8	0.468
206	To research into the development of novel electronic health record data entry methods, to facilitate accuracy and reduce errors.	69	62	61	69	68	53	63.7	0.413
207	To evaluate whether expert patient engagement in health systems can reduce severe, avoidable medication-related patient harm.	71	63	65	69	57	56	63.6	0.365
208	To perform a study evaluating the strategies to improve patient monitoring of adverse effects of medication.	78	68	44	66	68	57	63.5	0.425
209	To create guidelines for safer use of paracetamol (acetaminophen) in children to address safe prescribing, safe and clear dosing schedule and safe dispensing and administration.	84	68	37	72	57	61	63.2	0.556
210	To conduct a study investigating the impact of procurement based on clinical efficacy and safety, with the use of longitudinal data analytics thereby optimising benefits and minimising harm.	66	69	64	62	65	54	63.2	0.294

211	To assess the lack of communication in transitions of care (i.e. at hospital discharge) by conducting an observational and interventional study?	85	65	38	70	68	53	63.1	0.464
212	To evaluate the current electronic prescribing process and pilot a redesign on indication and decision supporting drug of choice.	69	65	62	69	65	48	63.0	0.385
213	To identify the challenges and opportunities for health care professionals and the health care system to improve medication safety in transitions of care.	72	62	45	68	64	66	63.0	0.421
214	To perform a cost-effective analysis on interventions to improve medication adherence to evidence-based cardiovascular pharmacotherapy and other chronic conditions.	76	72	43	74	56	56	62.9	0.476
215	To perform a study investigating the underlying causes, extent, and the consequences of a lack of communication between different healthcare professionals and between healthcare professionals and their patients.	76	67	53	61	62	58	62.9	0.401
216	To evaluate if there is a difference in factors which contribute to medication errors depending on the level of health care (primary, secondary, tertiary) and health care system.	80	59	58	61	59	60	62.9	0.413
217	To assess the nature and frequency of off-label medication use contributing to medication-related harm.	80	70	57	58	57	55	62.7	0.393

218	To identify collaborative team practices utilised by health care professionals to ensure appropriate drug monitoring and patient involvement?	73	66	55	63	68	52	62.7	0.381
219	To examine ambulatory practice prescribing, which types of medications, or combinations of medications, have a high risk of safety problems in patients.	70	68	47	70	67	54	62.7	0.488
220	To investigate strategies to enhance patient engagement and better use patient information, to be applicable and achievable for patients across all income-level countries.	59	61	57	63	65	71	62.6	0.381
221	To evaluate the implementation of QR coding for all medicines in their respective market and assess the public awareness of the need to verify the authenticity of medicines in countries which have implemented the QR coding.	75	61	65	61	62	52	62.6	0.345
222	To conduct an assessment on compliance and the reduced risk of adverse drug events in patients taking novel oral anticoagulants in lieu of warfarin.	77	66	42	77	63	50	62.4	0.456
223	To conduct a study investigating patient stock-piling of medications and conditions of their storage, their beliefs related to use of medicines and sources of medication information.	82	55	61	62	59	56	62.4	0.425
224	To conduct an observational study to identify critical laboratory tests, which if incorrect, may lead to a higher risk of medication errors occurring.	73	67	60	58	58	58	62.2	0.361

225	To conduct qualitative research on administrators and other managerial decision-makers addressing accountability on the decisions they make that create medication-related harm.	74	60	67	59	57	55	62.1	0.381
226	To conduct an intervention study enhancing patient involvement with their prescriber, does this empower patients to raise medication concerns promptly?	73	64	58	67	59	52	62.1	0.397
227	To perform an intervention study evaluating whether the provision on information about patient therapy to community pharmacists leads to a decrease in medication errors.	77	65	50	58	63	58	61.9	0.385
228	To assess the magnitude of severe drug interactions due to poly-pharmacy in elderly.	73	68	44	65	65	57	61.9	0.425
229	To examine incidents of product contamination and drug mislabeling. What techniques can be utilised to improve identification?	73	66	47	65	62	57	61.7	0.389
230	To conduct a study within long-term care/nursing home facilities, examining the surveillance and reporting systems of adverse drug events and patient harm due to atypical antipsychotics.	82	60	46	64	63	55	61.7	0.357
231	To study the feasibility, impact and scalability of awareness among patients and clinicians, that low kidney function as a major risk factor for medication-related patient safety events, delivered in a variety of ways - pharmacy, clinic, telephone, smart phone application?	69	59	59	65	62	52	61.1	0.393

232	To perform a qualitative study investigating what are the perceived causes of unsafe medication practices.	85	62	50	64	58	49	61.0	0.429
233	To address the key issues in reconciling prescriptions and administration across settings through a pilot study.	85	62	38	67	63	52	61.0	0.468
234	To measure which is the most sensitive moment, weekday and time of the day for occurrence of medication errors: ordering, prescribing, preparing, dispensing, administering or monitoring?	76	63	49	61	63	53	60.9	0.429
235	To perform a qualitative cross- professional study that addresses how to optimise the role of the pharmacist in medical teams, medication administration and delivery.	77	62	48	61	63	53	60.9	0.393
236	To identify strategies to increase adverse drug event reporting/post marketing surveillance amongst physicians.	75	72	38	68	61	51	60.8	0.516
237	To identify medications that requires invasive laboratory monitoring (e.g. blood tests, ECG) and validating a standard recommendation.	79	59	47	69	68	42	60.7	0.425
238	To determine the incidence of antibiotics obtained without prescription or from earlier consultation by a physician, and how information technologies can reduce risky behaviours in LMIC.	71	60	53	58	66	55	60.6	0.361

239	To assess the clinical significance of drug interactions based on recent studies and creating evidence-based strategies in deprescribing.	74	59	45	67	61	58	60.6	0.421
240	To investigate the relationship between the increased availability of prescription opioids and increased illicit drug use.	79	58	55	53	60	58	60.6	0.341
241	To conduct exploratory research expanding the role of nurses to take on leadership roles in preventing medication-related patient harm.	72	62	50	67	61	52	60.6	0.353
242	To develop and validate models focused on aspects of hospital layout and healthcare worker/patient flow to reduce HAIs.	73	54	55	66	64	52	60.6	0.282
243	To identify what strategies practitioners can apply individually to reduce medication errors.	76	66	48	66	56	52	60.5	0.401
244	To ascertain and develop the role of clinical informaticians to bridge the gap between health IT design implementation and healthcare professionals.	70	56	65	62	58	52	60.4	0.389
245	To assess the occurrence rate, patterns and trends of medication errors in communities across countries.	76	61	41	58	58	69	60.4	0.425
246	To conduct a study on developing valid and reliable measures of patient engagement.	69	65	53	65	53	57	60.2	0.440

247	To examine the impact of using external, non-biased safety testing companies, in evaluating the risks associated with potential brand names.	74	60	60	63	58	46	60.1	0.341
248	To raise awareness amongst Ministries of Health and healthcare leaders in developing countries to highlight the importance of medication safety in primary care.	70	58	45	61	60	65	59.9	0.401
249	To conduct a qualitative study for patients, what are their priorities for reducing the risk of medication-related harm?	76	55	58	68	49	54	59.7	0.405
250	To assess the effectiveness of annual meetings with community pharmacist, to discuss which medicines (incl. OTC medications) the patient is taking and how and when they are taking them, can reduce medication-related harm among patients who take multiple medications.	79	56	55	58	58	52	59.6	0.373
251	To assess in institutional level the obstacles and facilitators of adverse drug event reporting to increase the reporting	88	58	49	65	50	47	59.5	0.421
252	To assess practices which can increase or decrease errors in anticoagulant therapy of patients who have transitions of care between secondary and primary care.	70	69	41	59	64	54	59.4	0.369
253	To identify strategies to improve compliance of medication in patients, caregivers and health professionals. What are effective newly developed tools for medication safety?	69	54	51	61	67	54	59.4	0.440

254	To investigate which quality improvement factors also reduce medication-related harm.	60	63	52	61	61	59	59.4	0.321
255	To conduct a qualitative study seeking to examine how to enhance patient engagement amongst patients and their family, to improve medication safety.	78	56	45	63	53	61	59.4	0.401
256	To create a study assessing long-term adherence and compliance of patients who have complex multi-medication management, by looking from both the perspective of the patient and health care professional.	77	63	40	66	56	54	59.2	0.512
257	To identify the most frequent diagnostic errors and implement practices to prevent them.	68	70	41	59	63	55	59.2	0.401
258	What strategies can be implemented to reduce the overuse of medications with poor effectiveness in terminally ill cancer patients?	68	60	52	69	53	53	59.1	0.385
259	To identify and examine different types of surveillance programmes utilised to monitor medications with the potential for abuse.	77	54	59	64	57	45	59.1	0.341
260	To assess improvements in medication safety after introducing restrictions on drug dispensing (requirement for a valid prescription).	72	64	48	57	60	53	59.0	0.349
261	To assess patient attitudes and behaviours towards use and storage of medications in relation to health outcomes.	83	50	50	67	53	50	58.9	0.361

262	To develop and evaluate a system that monitors for the incompatibility of chemotherapy drugs with medications prescribed for other comorbidities, to reduce unwanted synergies.	75	66	36	64	66	47	58.8	0.369
263	To investigate the prescribing indication for opioids in middle- or third-world countries, has liberal prescribing for end-of-life care transitioned into use for non-cancer pain management.	75	54	54	52	58	61	58.7	0.298
264	To create a study comparing effectiveness of two systems, one where medication errors and adverse drug reactions are reported to different entity/portal, and second where these two are combined and the approach is integrated.	81	55	65	55	48	47	58.6	0.365
265	To conduct an analysis on what hinders the voluntary reporting of medication errors even when guidelines exist.	79	59	47	63	56	47	58.4	0.429
266	To assess through a pilot study if each time patient interacts with health care system the health care professionals would be obligated to look at least the past three visits back would reduce medication-related harm and help health care professionals to recognize medication-related harm.	70	57	67	52	57	47	58.2	0.389
267	To evaluate effectiveness of treatments used to manage extravasation of intravenous medications to minimize medication related harm.	68	70	41	61	63	45	58.1	0.401
268	To investigate the impact of changing the package on the uptake of safe medication practices.	72	54	56	57	57	54	58.1	0.302

269	To conduct a study examining the role of individual health professionals and inter-professional collaboration, who is accountable for ensuring medication safety?	80	60	52	55	48	54	58.1	0.345
270	To conduct an intervention study to determine whether handling of intravenous fluids alike medications (with protected access and patient-specific details) will reduce medication-related harm.	72	61	44	62	58	52	58.0	0.365
271	To evaluate incidents of inappropriate polypharmacy and develop strategies to reduce harm and improve patient health outcomes.	67	64	38	59	66	53	57.9	0.393
272	To investigate the global burden of opioid over-doses and related deaths.	87	59	37	47	57	62	57.9	0.381
273	To conduct exploratory research on how pharmaceutical professionals can adopt medication safety as their principal core societal role.	67	55	57	55	55	54	57.3	0.349
274	To identify methods to ensure that each patient is taking the correct medication.	61	63	35	60	65	60	57.2	0.389
275	To conduct a multi-professional study implementing different interventions to investigate the effect on reducing medication errors.	63	68	45	57	61	50	57.1	0.333
276	To implement data analytics to reduce medication related patient harm.	61	63	53	67	58	40	57.1	0.321

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277	To conduct a study assessing prescribing of non-approved medication and off-label use; and to investigate methods to reduce.	66	65	52	51	55	55	57.1	0.369
278	To examine whether the involvement of Health IT is functioning as expected to improve medication safety.	73	63	50	55	55	43	56.5	0.337
279	To conduct a study on enhancing the role of pharmacists in multidisciplinary collaboration with prescribers. What are the attitudes of pharmacists and prescribers, how will collaboration best be utilised?	77	60	38	56	58	50	56.5	0.377
280	To perform a study identifying medications (and/or combination of medications), that can potentially lead to acute kidney injury in high-risk critically ill patients.	74	59	31	61	61	53	56.4	0.444
281	To identify the role of different actors in health care in reducing global incidence of medication related adverse events.	70	59	44	55	55	55	56.2	0.389
282	To investigate patient access and use of online medication record systems (such as OpenNotes) and medication schedules.	75	56	63	52	53	37	56.1	0.361
283	To perform a study targeting health care prescribers, addressing how to promote effective communication and collaboration amongst other prescribing providers.	66	57	43	59	59	50	55.6	0.313
284	To conduct a study identifying what measures are required to develop the health care team's understanding towards the Standard Protocol of Medicine Reconciliation.	67	57	46	57	55	52	55.6	0.313

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285	To critically evaluate implementation of a standardized opioid tolerance assessment and documentation prior to administration.	78	52	50	59	54	41	55.4	0.325
286	To perform a qualitative study within the health care workforce focusing on what style of leader health care professionals desire to prevent avoidable medication-related harm?	71	53	61	48	52	47	55.4	0.393
287	To conduct research into the development of expert systems encompassing a wide scope of patient information (including age, gender, genetic makeup, laboratory tests), to aid as a clinical decision support.	54	56	54	54	61	54	55.2	0.278
288	To identify the enablers and barriers to the routine clinical recognition, diagnosis and recording of serious medication-related harm.	73	55	47	57	55	45	55.1	0.345
289	To systematically evaluate the most appropriate devices to deliver intravenous medications assessing the risk of complications, and to additionally investigate.	66	58	48	61	57	40	55.1	0.385
290	To gather evidence about the clinically important role of pharmacists in medication safety.	70	58	30	56	62	53	54.7	0.413

291	To assess various human factors, such as level of informance on medications, as variates to measure which human factors in patients and health care professionals effect prevalence of medication errors.	56	52	46	57	61	54	54.4	0.298
292	How does operationalization of 'resilience' in the health care system affect medication safety?	66	50	72	48	52	38	54.3	0.310
293	To investigate and develop model success stories utilising health IT.	69	52	52	55	50	48	54.2	0.345
294	To perform qualitative ethnographic research exploring health care staff perspectives on safety and the role they play.	72	50	57	55	43	47	53.9	0.345
295	To assess the risk of polypharmacy for individual patients and develop cost-effective solutions.	60	63	41	48	63	47	53.7	0.353
296	To perform a qualitative study on perceptions of community pharmacists towards the evaluation of knowledge and skills related to safe medication practice.	84	48	38	52	52	48	53.6	0.361
297	To assess the efficacy of antibiotic delivery by the per lingual route, what is the impact on the gut flora and contribution to antimicrobial resistance?	70	54	54	46	52	44	53.3	0.321
298	To assess through an observational study how adverse drug events happen and implement interventions to prevent them from occurring.	59	61	38	59	61	42	53.2	0.460

299	To assess nurses' skills to do dose calculations after absence from work and compare the drug calculation skills of recent nursing students to experienced nurses who have just came back to work from leave which length has been predetermined to be significant enough (e.g. in maternity leave).	80	45	52	55	50	36	52.9	0.337
300	To determine factors that drive spread of HAIs and investigate new approaches that minimize the role of the healthcare environment in the spread of germs.	68	58	39	56	50	44	52.5	0.282
301	To conduct a multisite/multimodal study evaluating the role and impact of utilising digital methods in the health care process to reduce medication errors.	61	53	47	58	52	44	52.5	0.317
302	To conduct exploratory research on new methods to improve user-centred design and technology.	61	46	57	56	52	42	52.4	0.302
303	To conduct a study designed to investigate the intentional non-adherence of medication.	64	49	49	49	53	50	52.1	0.373
304	To assess the role of nurses in preventing drug-drug interactions.	72	49	42	53	50	44	51.6	0.381
305	To conduct an intervention study in hospital emergency departments evaluating the effectiveness of strategies (organizational/functional) to reduce delay and overcrowding.	71	50	32	54	43	59	51.5	0.317

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306	To create up-to-date recommendations for safe and good prescribing practices.	59	60	33	54	54	47	51.1	0.405
307	To identify which elements globally in robust health systems, help to avert medication related harm	61	53	39	50	52	48	50.7	0.321
308	To undertake an examination of health policy analyses in LMIC, are the measures sufficient?	63	48	38	52	50	52	50.6	0.294
309	To assess the benefits and risks of medications affecting the central nervous system, such as antipsychotics, antidepressants, anticonvulsants, benzodiazepines, in patients with complex conditions such as ADHD, substance abuse/misuse, and chronic pain.	60	59	27	47	59	50	50.2	0.397
310	To assess the required global standards required to be in place before introducing a new digital system to any market.	63	46	50	54	44	43	50.0	0.302
311	To identify through pilot studies ways to prevent inappropriate use and over-prescribing due to financial incentives to physicians.	55	50	56	45	44	48	49.7	0.329
312	To perform a mixed method study examining the role of pharmacists and non-physicians in enhancing medication safety.	67	53	33	53	47	45	49.7	0.349

313	To investigate the impact of personalised medicines.	52	48	54	46	46	52	49.7	0.298
314	To perform an observational study to identify which laboratory tests can early diagnose a medication error.	48	46	58	44	46	54	49.5	0.282
315	To analyze and identify the root cause of multidrug resistance in the treatment process to create more effective interventions.	58	50	34	53	53	47	49.4	0.353
316	To conduct a longitudinal observational study of patient medication non-adherence on health outcomes.	72	50	34	51	43	43	49.0	0.452
317	To evaluate the efficacy of generic antibiotics compared to their original patented brand. Do they have the same impact on antibiotic-resistant bacteria in the digestive flora?	64	44	44	46	46	46	48.5	0.282
318	To compare the efficacy of generic medication to the original index drug and all other generic forms?	63	46	32	50	46	54	48.5	0.333
319	To assess the consequences to the individual's well-being and to their effectiveness when the workplace pursues complete elimination of avoidable harm.	50	50	52	46	48	39	47.6	0.290
320	To develop Shared Care Guidelines for selected medicines, to promote safe continuity of care in the community.	61	48	29	48	46	52	47.3	0.329

321	To compare generic marking of every individual medication and dosage against existing medication in improving medication safety?	60	48	45	45	40	43	46.9	0.230
322	To conduct a study exploring implementation methods of drug classification systems in LMIC.	58	40	39	52	42	46	46.1	0.290
323	To conduct a study investigating clinical situations that lie outside the guidelines, is there an increased incidence of unnecessary bridging with heparin or low molecular weight heparin?	60	47	40	55	40	34	45.9	0.353
324	To develop clinical guidelines for rarely used drugs and perform audits on use.	59	43	48	44	38	40	45.4	0.317
325	Assessing the benefits on patient safety and efficacy of marking expiration month and date on tablets.	62	39	41	53	38	40	45.4	0.349
326	To conduct an experimental study investigating the differences in the length of carriage of resistant bacteria, after exposure to a single course of antibiotics.	70	41	40	35	39	37	43.6	0.353
327	To develop digital thermometers for use with medicine fridges and freezers.	66	42	23	59	30	40	43.2	0.413
328	To identify ways to ensure that the systemic problems (and failings) of medication safety amongst healthcare professionals will not conflict with the current trend of increasing patient knowledge and awareness.	45	38	47	43	43	40	42.8	0.341

329	To investigate the effect on patient safety if medication is infused through central versus peripheral veins.	58	42	26	52	44	27	41.4	0.433
330	To research into producing a medicines handbook that classifies medication by disease and patient group, that can be applied to different geographic country contexts.	44	36	43	40	36	45	40.6	0.369
331	To conduct an exploratory study on the conditions and regulations needed to adopt the prescription to OTC switch.	52	32	38	43	27	43	39.4	0.282
332	To create recommendations to accurately identify a patient which could be applied to different institutional contexts.	50	42	27	48	38	25	38.2	0.329
333	To investigate the change in the status of the medication to create reliable processes.	29	31	24	28	28	26	27.4	0.325

**Supplementary Table 3:** Final ranks of 333 proposed research questions based on the scores from 27 experts in medication safety who were scoring mainly with a high-resource context in mind, and who represent a subset of the 42 scorers. Specific scores, ranging from 0-100, are presented for each of the 6 priority-setting criteria: answerability, effectiveness, innovativeness, implementability, potential for burden reduction and equitability. Questions are ranked according to their overall research priority scores (RPS), which also has a maximum theoretical range of 0-100%. Average expert agreement, which can theoretically range from 25-100%, is also provided for each question.

RANK HIC	RESEARCH QUESTION	ANSWERABLE	EFFECTIVE	INNOVATIVE	IMPLEMENTABLE	BURDEN REDUCED	EQUITABLE	RPS	AEA
	To compare the benefits of								
	pictorial information in medication instructions to								
	written instructions alone, in								
	improving medication safety.								
	To what extent, in what								
	contexts and formats is pictorial								
1	information most beneficial?	97	84	91	87	81	95	89.1	0.580
1	To identify and develop	97	04	91	0/	01	93	69.1	0.360
	globally applicable pictograms								
	for selected high-risk								
	medications which would								
	convey the critically important safety information.								
2	safety information.	93	88	80	89	94	90	89.0	0.599
	To investigate how	,,			0,7	,	, ,	07.0	0.077
	technologies could be								
	appropriately implemented and								
	scaled in LMICs to better ensure that drugs are not								
	spoiled, diverted, counterfeited,								
	and that supply chain								
	performance is optimized to								
	avoid stock outs and drug								
3	shortages.	91	100	77	88	90	87	88.7	0.500
	To assess how the incidence of	71	100			, , ,	01	00.7	0.000
	harm due to prescribing errors								
	can be reduced by different								
	interventions in low- and middle-income countries.								
4	induie-income countries.	95	97	71	75	100	87	87.4	0.568

					1	1	T		
	To investigate the role of health								
	communication strategies to								
	support patients with limited								
	language proficiency, health								
	literacy and education in taking								
	medications safely.								
_	medications safety.	00	97	71	0.5	0.2	100	05.0	0.500
5	FI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90	86	71	85	83	100	85.9	0.599
	To develop a predictive								
	algorithm to identify individuals								
	who are at risk of serious								
	medication-related harm.								
6		82	92	86	74	96	78	84.7	0.722
	To identify affordable and								
	effective methods of improving								
	medication literacy among								
	patients in resource limited								
	settings.	00	0.4	70	0.7	0.2	0.4	0.4.6	0.540
7	FI :1 :0 1	89	84	79	87	83	84	84.6	0.549
	To identify and create								
	recommendations for the most								
	effective approach to decision								
	support alerts in electronic								
	prescribing systems, the								
	optimum sensitivity and								
	specificity and criteria which								
	should be used to enable								
	prescriber to receive alerts but								
	not receive alert fatigue.								
8		96	89	74	91	89	68	84.6	0.667
	To create patient knowledge-								
	building tools for medication								
	safety with critical thinking to								
	ensure they are usable for								
	people with low level of literacy,								
	in a reliable format and								
	addressing the role of internet								
	as an information source.								
	as an information source.	00	00	77	00	70	0.0	02.7	0.747
9	/m 1 1 1 1 1 1 1	89	82	77	80	79	96	83.7	0.617
	To develop and validate a								
	complexity score (c-score) for								
	patients in need for de-								
	prescribing which would help								
	the physicians or pharmacists								
10	identify the high-risk patients	93	81	76	88	86	79	83.7	0.580
	,	, , ,							

	who might develop drug-drug interactions.								
	To identify pictograms which could be used to teach patients about their medicines.								
11		97	72	72	83	88	89	83.7	0.506
	To quantify the impact of electronic systems and knowledge-based clinical decision support on reducing medication-related harm in LMICs, by implementing this technology to smart-phones.								
12		98	84	91	83	78	68	83.6	0.537
	To assess the prevalence, main factors responsible and the effective interventions for preventing severe avoidable medication related patient harm in resource-limited settings through pilot studies.								
13		88	89	64	82	87	84	82.2	0.543
14	To develop and validate a complexity score (c-score) to identify the patients who are at risk of readmission in 30 days due to medication errors which could be used by pharmacists and physicians.	91	80	73	89	86	70	81.3	0.611
	To trial a pilot intervention study of the barcode system for medication in LMIC.								
15		92	87	67	71	88	84	81.2	0.451
16	To improve medication safety for in-patients, through the application of ergonomics and human factors in the organization of the medications	91	82	75	86	88	66	81.2	0.593

	flow: order, distribution,								I
	stocking, preparation and								
	administration.								
	administration.								
	To identify the most effective								
	empowerment methods and								
	tools for patients and their								
	caregivers to speak up when								
	they see the potential for								
	medication-related harm,								
	especially applicable to patients								
	in LMICs, as often the most								
	impacted individuals are poorer and less educated.								
17	and less educated.	86	75	83	73	78	93	81.1	0.537
17	To assess the impact of	30	, ,	33	13	70	73	01.1	0.557
	increasing the amount of								
	trained human resources to								
	reduce medication errors in								
	low- and middle-income								
	countries.								
18	T 1	89	81	74	69	88	79	80.1	0.512
	To conduct a study investigating the types of								
	medication-related harm that								
	occur in transitions between								
	hospitals and primary care								
	settings in LMIC.								
19		98	83	58	78	89	75	80.0	0.537
	To assess how decision support							_	
	systems can be integrated with								
	patient data, the culture barriers								
	to rational prescribing in								
	resource poor countries and how electronic prescribing								
	systems relate to traditional								
	medicine.								
20		85	87	79	70	83	76	79.9	0.519
	To identify indicators of							_	
	medication safety that have								
	been utilised in low-resource								
24	settings. What is known about	05	00		0.2	7.	70	70.7	0.527
21	their validity, reliability, and	95	80	68	83	75	78	79.7	0.537

	feasibility, and what potential								
	indicators should be								
	introduced?								
	To test the use of a patient								
	decision support system in								
	order to ensure patient safety								
	within self-management of medications in chronic								
	medications in chronic conditions, with the remote								
	support of health professionals								
	and group of peers (patient								
	experts).								
22		88	74	85	79	76	76	79.6	0.568
	To identify the reliable easily								
	measured indicators to assess medication safety both in a								
	facility level and also in national								
	level.								
23		86	82	68	84	77	73	78.4	0.562
	To develop a mobile								
	technology tool for patient and								
	clinician use, aiding appropriate								
24	polypharmacy in LMIC.	89	82	85	67	69	75	77.9	0.463
24	To research into the utilization	0)	02	63	07	07	7.5	11.7	0.403
	of digital health services								
	monitoring large population								
	health records to surveil								
	adverse drug reaction signals.								
25	To investigate 1	89	76	83	82	81	58	77.9	0.506
	To investigate how to ensure patient safety for patients								
	utilizing oral home-based								
	chemotherapy administration:								
	maximising patient education								
	and monitoring systems.								
26	T 1	90	83	73	82	74	63	77.3	0.506
	To determine the prevalence and potential clinical outcomes								
	of medication errors in (1)								
	primary care settings, and (2)								
27		90	78	78	68	73	78	77.3	0.494

	I to a mitted to 1				I	ı		1	
1	hospitals in low resource								
	countries.								
1									
	To investigate the effects of								
	different interventions								
	before/during/after the								
	hospital discharge to ensure								
	patients know and understand								
	the information on their								
	medication.								
28	medication.	89	82	59	80	82	73	77.2	0.554
28	7 1 ·	89	82	39	80	82	/3	77.3	0.556
	To assess how in resource poor								
1	countries/regions, evidence-								
1	based medication management								
	systems which cover from								
1	prescribing to administering								
	drugs can be implemented, and								
1	what organizational and cultural								
	requirements are needed to								
	implement such systems?								
29	<u> </u>	84	79	69	67	79	83	77.0	0.451
	To identify what national								
1	strategies and/or policies for								
	medication safety across high-,								
	middle-, and low-income								
1	countries exist. What gaps								
1	remain in identifying and								
1	implementing these prevention								
1									
20	strategies/policies?	00	00		40	= .		77.0	0.535
30		98	80	57	68	76	83	77.0	0.537
	To implement national level								
	controlling and monitoring of								
1	safety of herbal medications.								
31		83	72	61	83	88	71	76.5	0.463
	To develop and evaluate a pilot								
1	patient medication recording								
1	system based on a cloud								
1	platform, accessible to all health								
	care providers in prescribing								
	and reviewing a patient's								
32	medication.	90	83	74	73	78	62	76.5	0.525
		1	- 55	l	10	10			,=0

	To evaluate the effectiveness of the Medication Without Harm Challenge by using Interrupted Time series to assess the implemented policies to prevent medication errors by					ı	1		1
	Challenge by using Interrupted Time series to assess the implemented policies to prevent medication errors by								1
	Time series to assess the implemented policies to prevent medication errors by								
	Time series to assess the implemented policies to prevent medication errors by								
	implemented policies to prevent medication errors by								
	prevent medication errors by								
	measuring the situation prior								
	and after (e.g. 6 months before								
	and after) the introduction of								
	the implementation of the								
	policy.								
3		93	83	69	78	74	63	76.4	0.506
	Can implementing								
	interventions related to barriers								
	to de-prescribing, in patients								
	with multi-morbidity and								
	polypharmacy, minimise								
	morbidity, mortality, reduce								
	financial burden, improve								
	medication adherence leading								
	to enhance patient safety?								
3		77	81	70	80	85	65	76.4	0.617
	To evaluate which tools can be								
	most useful to measure								
	medication safety and								
	determine the impact of								
	measures that are implemented								
_	over time.								
3		81	81	64	83	79	69	/6.3	0.531
									1
1									
	making about polypharmacy, to								
	making about polyphannacy, to								
	develop decision aids for	l							1
	develop decision aids for	l							1
	develop decision aids for patients to help them take part								
	develop decision aids for patients to help them take part on the discussion of taking								
2	develop decision aids for patients to help them take part on the discussion of taking multiple medications.	70	74	٥٦	72	71	70	76.1	0.463
3	develop decision aids for patients to help them take part on the discussion of taking multiple medications.	79	74	82	73	71	79	76.1	0.463
3	develop decision aids for patients to help them take part on the discussion of taking multiple medications.  To assess cost-effective	79	74	82	73	71	79	76.1	0.463
3	develop decision aids for patients to help them take part on the discussion of taking multiple medications.  To assess cost-effective methods to keep track of what	79	74	82	73	71	79	76.1	0.463
3	develop decision aids for patients to help them take part on the discussion of taking multiple medications.  To assess cost-effective methods to keep track of what medicines a patient has taken	79	74	82	73	71	79	76.1	0.463
3	develop decision aids for patients to help them take part on the discussion of taking multiple medications.  To assess cost-effective methods to keep track of what medicines a patient has taken and is taking, investigate how to	79	74	82	73	71	79	76.1	0.463
3	develop decision aids for patients to help them take part on the discussion of taking multiple medications.  To assess cost-effective methods to keep track of what medicines a patient has taken	79	74	82	73	71	79	76.1	0.463
3	develop decision aids for patients to help them take part on the discussion of taking multiple medications.  To assess cost-effective methods to keep track of what medicines a patient has taken and is taking, investigate how to	79	74	82	73	71	79	76.1	0.463
3		81	81	64	83	79	69	76.3	0

	in order to reduce medication errors leading to medication- related patient harm?								
38	To explore novel ways, we can utilise technology (applications and other automation) to reduce adverse medication-related events. What is the role for technology in assisting patient monitoring and correct use of medications?	93	74	69	81	79	60	75.8	0.537
39	To create a cost-effectiveness study to identify mechanisms that support safe prescribing for elderly, poly-medicated patients.	89	91	57	80	74	64	75.7	0.512
40	To study the feasibility, impact and scalability of decision support tools to assist clinicians in safe medication prescription practice.	91	84	50	75	83	70	75.5	0.549
41	To conduct a multisite analysis investigating hospital adverse events. What has been the impact of electronic medical record (EMR) systems, the different modes of EMR, and optimal approaches in design and delivery?	93	82	63	68	83	64	75.4	0.481
	To identify and create new indicators and metrics for medication safety to measure better the impact of medication safety work.								
42		80	81	75	79	74	64	75.4	0.506

	To examine the impact of the								
	Essential Medicines List in								
	LMIC, to prevent and address								
	inappropriate polypharmacy at								
	transitions of care.								
43		82	63	80	77	67	83	75.4	0.395
	To evaluate the impact of								
	medication reconciliation in								
	preventing medication errors in								
	low-income countries.								
44		89	82	59	67	83	71	75.1	0.451
	To develop and test a core set								
	of medication safety indicators,								
	applicable for different								
	contexts and countries worldwide. The set of core								
	indicators may differ according								
	to income level of country.								
45	to meome level of country.	87	74	65	74	70	80	75.0	0.580
15	To identify high-risk situations	01	7.1	03	, ,	70	00	73.0	0.300
	applicable globally that should								
	be programmed in all								
	information systems (EHRs,								
	CPOE, e-prescribing).								
46		88	74	67	71	75	75	74.9	0.506
	To identify certain group of								
	diseases and patient groups that								
	correlate to higher chances of								
	experiencing a medication-								
	related error and would such								
	greatly benefit from conducting								
	routing medication reviews and								
45	medication reconciliation.	0.4	0.5	F0.	00	0.4		740	0.445
47	T 1 1 C	81	85	50	80	81	71	74.9	0.617
	To assess the prevalence of								
	medication errors among patients who self-administer								
	their medication in home								
	setting and assess different								
1	methods of patient education as								
	an intervention.								
48		82	75	80	75	73	61	74.2	0.543
10	l .	Ü2	7.0	00	, 0	10	01		5.5 75

49	To design and develop sustainable, childproof and tamperproof containers which would ensure there is no risk to take dose higher than intended (e.g. impossible to dispense more than 10 ml before realigning it).  To identify best strategies to avoid inappropriate self-	83	79	68	80	74	61	74.0	0.506
	medication with antibiotics.								
50		90	90	50	76	70	66	73.7	0.500
51	To perform a mixed-methods study examining the role patients and families play in contributing to medication errors due to non-adherence or over-adherence, and how much of this is due to issues with regards to access or health literacy? What evidence-based interventions exist?	85	74	72	75	68	68	73.6	0.630
	To evaluate the role of human factors, ergonomics and error- proof designing of health care facilities as a medication safety strategy.								
52	To evaluate forms of	91	76	74	80	70	50	73.5	0.512
53	optimizing drug prescribing in the elderly in collaboration of pharmacists and GPs.	86	86	43	83	78	67	73.5	0.494
33	To evaluate forms of optimizing drug prescribing in the elderly in collaboration of pharmacists and GPs.	00	00	43	83	/8	07	(3.3	U.474
54		83	81	46	83	83	65	73.5	0.580

	T' 1.1 1 1				I				ı
	To perform a multi-modal								
	analysis utilising a mixed								
	methods approach assessing								
	human factors, to analyze the								
	most effective medication								
	administration practices to								
	prevent patient harm.								
55		84	80	72	70	76	58	73.4	0.463
	To investigate the impact of								
	addressing high alert								
	medications on morbidity and								
	mortality in two pilot sites, one								
	in LMIC and one HIC.								
56		74	70	61	80	82	74	73.4	0.543
	To examine the most frequent								
	cause of hospital admissions in								
	polypharmacy patients. What								
	strategies can be implemented								
	to reduce the risk?								
57		86	88	43	76	92	55	73.2	0.506
	To identify which remediable								
	human factors are the most								
	important to provide safe								
	prescription and administration								
	of medicines?								
58	or medicines.	91	86	61	79	74	48	73.2	0.525
50	To evaluate the economic	71		01			10	75.2	0.020
	impact of interventions								
	targeted to reducing								
	medication-related adverse								
	events.								
59	events.	88	83	63	68	71	68	73.1	0.494
39	To conduct a cost-effective	00	63	0.5	00	/ 1	00	7.5.1	0.474
	analysis on interventions to								
	reduce avoidable drug-related								
	hospital admissions.	7.4	07		00	0.2	<b>70</b>	72.0	0.510
60	To conduct a study amongst	74	86	55	80	83	60	72.9	0.519
	health practitioners identifying								
	at the practitioner-level barriers								
	to implementation of evidence-								
	based health literacy practices								
	for explaining medications to							<b>50</b> °	0.400
61	patients and their families.	83	70	61	78	68	78	72.8	0.488

To evaluate medication discrepancies, communication, documentation and the role of medication reconcilation across care transitions in preventing medication retards and on the impact of medication dispensing technology in preventing and/or reducing medication estated particularly and/or reducing medication estated and health care settings, and to identify strategies to ensure its safe use.  79 77 61 77 78 60 72.2 0.568  To develop a pilot implementation tool kit to improve medical and health care settings and contents workflows.  74 71 73 70 70 75 72.1 0.500  30 conduct a multistic study analysing the transfer and contents and contents and contents workflows.  74 71 73 70 70 70 75 72.1 0.500  31 conduct a multistic study analysing the transfer and contents and contents workflows.  74 71 73 70 70 70 75 72.1 0.500  32 conduct a multistic study analysing the transfer and contents workflows.  75 To investigate the impact, featibility and scalability of patient education techniques to promote reconciliation and						T	T	T		
documentation and the role of medication reconcilation across care transitions in preventing medication reconcilation in preventing medication representing medication sudy on the impact of medication dispersing technology in preventing and/or reducing medication errors.  100 83 45 79 76 53 725 0.494  To conduct an observational study examining the handling of high-risk medications across the continuum of care, and to identify strategies to ensure its safe use.  79 77 61 77 78 60 722 0.568  To develop a pilot implementation tool kit to improve medical and health care safety processes, applicable for different contexts and countries worldwide.  74 71 73 70 70 70 75 72.1 0.500  To conduct a multisite study analyzing the transfer and communication of medication-related information across health care estings, and between patients and provides. What are the weak points, how can current practices be strengthened?  93 68 52 77 79 62 71.9 0.519  To investigate the impact, feasibility and scalability of patient education techniques to										
medication reconcilation across care transitions in preventing medication-related patient harm.  95 89 36 73 84 59 72.6 0.549  To conduct an intervention study on the impact of medication dispensing technology in preventing and/or reducing medication crrors.  100 83 45 79 76 53 72.5 0.494  To conduct an observational study carmining the handling of high-risk medications across the continuum of care, and to identify strategies to ensure sis safe use.  79 77 61 77 78 60 72.2 0.568  To develop a pilot implementation tool kit to improve medical and health care safety processes, applicable for different contexts and countries worldwade.  74 71 73 70 70 75 72.1 0.500  To conduct a multisite study analyzing the transfer and communication of medication-related information across health care extings, and between patients and provides. What are the weak points, how can current practices be strengthened?  93 68 52 77 79 62 71.9 0.519  To investigate the impact, feasibility and scalability of patient education techniques to										
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To investigate the impact, feasibility and scalability of patient education techniques to		strengthened?								
feasibility and scalability of patient education techniques to	66		93	68	52	77	79	62	71.9	0.519
patient education techniques to										
promote reconciliation and										
		promote reconciliation and								
67 adherence delivered in a variety 80 78 70 66 70 67 71.9 0.506	67	adherence delivered in a variety	80	78	70	66	70	67	71.9	0.506

	of ways including: pharmacy, clinic, telephone, smart phone application.								
68	To commence a policy research on improving the impact of post-market surveillance systems to optimize patient care, drug effectiveness, and market corrections (drug recalls, etc.), including an assessment how the post-market surveillance systems differ across all countries and how this affects to medication safety.	88	70	60	80	68	65	71.7	0.469
08	To create effective techniques in medication error disclosure between health care professionals and to the patient, including legal statutes that can promote transparency.	00	70	60	80	00	03	/1./	0.469
69	To create a comparative study, which would assess the effectiveness of standardized, patient carried basic medication list in a developing country compared to more involved and complex tools (e.g. Best possible medication history lists) used in developed countries.	83	69	67	71	73	67	71.6	0.469
70	To evaluate the reduction in medication errors at a local level after introducing a program which aims to increase the role of patients in medication safety, engage them in their care and increase patient counselling, in	78 83	73 77	66	65 75	71	78	71.6	0.457

	_								
	minimizing the incidence of								
	medication-related harm.								
	To increase awareness among								
	regulators and pharmaceutical								
	industry how look-alike								
	containers, poor visibility of key								
	information (e.g. Active								
	pharmaceutical ingredient) can								
	cause medication errors and								
	assess if dispensing only the								
	necessary dose (breaking the								
	fixed package when needed)								
	would increase rational use of								
	medicines.								
72		89	80	50	78	83	50	71.4	0.488
	To conduct a longitudinal study								
	on how often systematic								
	medication reviews should be								
	performed in nursing home								
	residents and how medication								
	prescribing should be adjusted								
	as treatment goals shift form								
	preventive/curative to								
	palliative/comforting care.								
73	pamative, comforting care.	95	76	62	71	69	55	71.4	0.481
13	To design a uniform global	75	70	Ü2	7.1	0)	33	7 2 1 1	0.,01
	standard of labelling for OTC								
	medications and create								
	recommendations for good								
	labelling practice, including use								
	of simple language.								
74	or ompre uniquage.	81	75	68	70	75	60	71.4	0.481
	To evaluate the role of service								
	design and technology in								
	improving safety at transitions								
	of care.								
75		79	79	68	71	79	53	71.3	0.488
	i	·	-						

	To design and implement an								1
	information campaign aimed at								
	patients to increase patient								
	empowerment in reducing								
	medication-related harm by								
	addressing: transparency and								
	completeness of information to								
	be shared with healthcare								
	providers, storage of medication, medication								
	medication, medication adherence, medication shifts,								
	possible adverse effects and								
	adverse drug reaction reporting.								
76	adverse drug feaction reporting.	82	75	50	77	66	77	71.2	0.506
/ 0	To assess which aspects of	62	/3	30	11	00	//	/1.2	0.300
	organizational culture and/or								
	context can help to prevent								
	medication-related patient								
	harm.								
77	THE THE	88	74	63	74	66	63	71.2	0.451
	To investigate how having an								
	understanding about health								
	literacy can contribute towards								
	ways that practitioners give								
	information to patients about								
	their medications.								
78		78	69	66	64	71	79	71.0	0.426
	To perform a qualitative study								
	on patient's perspective: what is								
	their role in medication								
	management during transitions								
	of care and what do they think								
	it could be? Identify strategies								
	used to engage patients in								
	medication management during								
	transitions of care. What are the								
	barriers and facilitators to these								
	strategies, and to assess the								
	effectiveness of the identified								
	strategies?							=0 -	
79		84	74	64	83	64	57	70.9	0.500

	T				1	1	1		
	To conduct exploratory								
	research into how potential								
	medication safety issues can be								
	predicted in a timely manner,								
	with the use of algorithms								
	based on clinical data.								
80	based off chilical data.	74	74	87	68	72	50	70.8	0.426
80	77 11 10 1	/4	/4	8/	08	12	50	/0.8	0.426
	To identify the most frequent								
	patient-caused medication								
	errors that occur at home and								
	assess what strategies could be								
	implemented.								
81		87	74	70	74	73	48	70.8	0.537
	To identify which factors,								
	contribute to administration								
	errors where medication is not								
	given in nursing homes and								
	care homes.								
82	care nomes.	89	69	<b>5</b> 0	70	7.5		70.6	0.426
82	FI 6 66 :	89	69	50	79	75	61	70.6	0.426
	To perform a cost-effective								
	analysis on interventions to								
	reduce preventable medication-								
	related hospitalizations, and								
	medication-related falls and								
	injuries in older adults.								
83	,	82	82	46	68	80	64	70.3	0.593
	To design technology assisted								0.070
	medication administration to								
	reduce medication errors e.g.								
	two-tier level identification.			<b>=</b> 0		=-	<b>-</b>	=	=.
84		88	80	50	75	79	50	70.2	0.475
	To identify and build a platform								
	which would allow patients to								
	access their up-to-date								
	medication list in all times								
	regardless of the physical								
	location.								
85		82	82	48	71	81	55	69.7	0.500
	To investigate cost-effective,							·	
	multidisciplinary practices for								
	optimising patient								
	pharmacotherapy, especially for								
0.0		00	77	40	7/	00		(0.4	0.512
86	patients with chronic	80	77	48	76	80	57	69.6	0.512

			,		1	1			
	conditions and multi-								
	morbidity.								
	-								
	To examine errors in								
	chemotherapy dosage and/or								
	administration, what								
	organisational changes can be								
	implemented to prevent them								
	from occurring?								
87		88	79	50	79	68	55	69.6	0.451
	To perform a study on nurses								
	administering medicines in								
	long-term care settings, what is								
	the prevalence and root cause								
	of medication administration								
	adverse events?								
0.0	adverse events?	400	74	45	74			(0.6	0.457
88	H	100	71	45	71	65	64	69.6	0.457
	To investigate identification								
	systems (correct patient, correct								
	route) and functional designs of								
	hospitals to facilitate safe								
	administration of medicines to								
	patients with cognitive								
	impairment.								
89		80	71	44	78	78	66	69.4	0.426
0,	To conduct a study across	00	7.1	- ''	70	70	00	02.1	0.120
	institutions identifying system-								
	level barriers to implementation								
	level partiers to implementation								
	of evidence-based health								
	literacy practices.								_
90		87	68	58	66	64	72	69.2	0.432
	To identify globally applicable								
	list of questions patients should								
	know about their medications.								
91		83	74	43	73	65	78	69.2	0.481
	To conduct a multisite study								
	evaluating interventions that								
	have been successful in								
	optimising medication error								
92	reporting and learning systems.	85	72	61	76	64	57	69.2	0.500
92	reporting and learning systems.	65	12	01	70	04	37	07.2	0.500

		,					1		
	To investigate the response to								
	opioids in middle-income								
	countries: is the rise of opioid								
	misuse, abuse, dependence								
	associated with the increased								
	availability of extended-release								
	opioids.	=0				_,			
93		78	61	68	68	76	64	69.1	0.383
	To conduct epidemiology								
	studies of adverse drug events								
	and medical errors in non-								
	academic tertiary settings such								
	as nursing homes, cancer								
	centres, and community								
	hospitals.								
94	nospitais.	86	64	55	71	74	64	69.0	0.469
	To investigate how medication-		0.		, ,	, ,	0,		0.,02
	related harm can be measured								
	in feasible way, which requires								
	minimal resources, that can be								
	adapted to existing practices								
	and can be measured ongoing								
0.5	basis.								0.440
95	wa . 1	66	75	74	70	69	60	69.0	0.463
	What is the impact of current								
	prescribing and medication use								
	patterns during pregnancy on								
	adverse birth outcomes in								
	LMIC?								
96		60	70	45	58	103	79	69.0	0.420
	To test through pilot sites								
	which are most fruitful and								
	powerful combinations of								
	practices, processes, and tools								
	to prevent avoidable								
	medication-related harm.								
97	medication related name.	75	75	53	73	78	61	68.9	0.432
	To design a patient pathway			33	7.5	70	31	20.0	
	based monitoring framework								
	and supporting metrics for								
	evaluation of safe prescribing								
	and administration of								
	medicines.								
98	mediciles.	72	70	69	68	71	63	68.9	0.444
70		12	70	07	1 00	/ 1	0.5	00.7	V.11T

						1			
	To assess the reporting and								
	learning of medication error								
	systems at global and regional								
	level and their impact on system								
	change.								
99		88	76	56	63	64	67	68.9	0.512
	To identify measures which								
	would enable safer medication-								
	taking practices at home in								
	LMIC.								
100		78	68	53	68	69	78	68.8	0.352
	To identify effective								
	communication strategies to								
	ensure medication safety in								
	transitions of care (incl.								
	Appropriate medications and								
	education on those medicines)?								
101	education on those medicines).	89	83	40	73	75	52	68.7	0.494
101	To determine the extent of	07	0.5	10	13	15	32	00.7	0.171
	harm contributed by sub-								
	standard, spurious, falsified and								
	counterfeit medicines (SSFFC)								
	to patient safety. How to reduce								
	the prevalence and incidence of								
	SSFFC medicines in LMIC for								
	better health outcomes?								
102	better health outcomes?	63	75	56	63	76	79	68.6	0.451
102	What are the most frequent	0.5	13	30	0.5	70	19	00.0	0.431
	causes of severe, avoidable								
	medication-related harm in								
	high-, middle-, and low-income								
	countries? If this is not known,								
	what steps need to be taken to								
	build and/or strengthen								
	surveillance systems to identify								
100	medication-related harm?		د د					40 <b>-</b>	0.545
103	The immediate the annual of	77	66	55	69	75	69	68.5	0.512
	To investigate the correlations								
	between patient education and								
	engagement with adherence to								
	medication, inappropriate								
	prescriptions and adverse drug							40.5	0.45=
104	events; and to identify which	73	64	69	74	66	64	68.3	0.457

	T	T				T			1
	education tools are effective								
	and sustainable.								
	To conduct a pilot study on								
	elderly patients in a long-term								
	elderly patients in a long-term								
	care facility/nursing home, do								
	routine medication reviews								
	reduce the overuse of								
	medications?								
105		95	74	52	79	68	43	68.3	0.475
	To identify globally applicable								
	list of minimum questions								
	health care professionals should								
	ask their patients before								
	dispensing or prescribing								
404	medications.							. <del></del> .	0.455
106		89	67	57	74	62	60	67.9	0.475
	To apply global standards on								
	packaging and labelling to have								
	uniformed place and way how								
	and where the best before date								
	and strength of the medicine is								
	placed in the product.								
107	paced in the producti	81	73	61	68	68	58	67.9	0.426
107	To investigate incidents of	01	13	01	00	00	30	07.2	0.120
	harm, what role and to what								
	extent does technology and								
	technical complexity								
	contribute?								
108		85	65	68	68	68	53	67.7	0.438
	To investigate the role of								
	pharmacist's intervention in								
	reducing medication errors								
	through prospective cohort								
	study. In which ways can the								
	role of pharmacists be								
	expanded to be actively								
	involved in the medication								
	prescribing process.								
109		90	75	30	75	83	53	67.5	0.488

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	To conduct exploratory								
	research on emerging								
	technologies to prevent								
	medication events from								
	occurring, available for use in								
	the patient's home and/or long-								
	term care settings.								
110	80	76	68	66	63	75	58	67.4	0.432
	To investigate what are the								
	most effective and cost-								
	effective interventions carried								
	out at the individual and								
	community-level, to help								
	community-level, to help								
	reduce inappropriate antimicrobial use and reduce								
	antimicrobial resistance.	0.0							
111		90	75	35	74	76	53	67.1	0.481
	To assess the benefits								
	technology can play in reducing								
	medication errors caused by								
	verbal orders, during transition								
	of care and in engaging and								
	educating patients on their								
	medication.								
112		88	68	67	60	78	43	67.0	0.438
	To assess the human factors								
	which affect the decision-								
	making process during								
	prescribing, to teach best								
	practices to doctors.								
113	P	80	70	70	66	64	52	67.0	0.444
	To investigate what areas of			· · ·					
	medication safety patients can								
	best empower patients as								
	guardians of safety for their								
	own medication. What								
	strategies can be utilized to								
	promote this role and how can								
444	it be implemented?		.=		==	2.4		<b>47</b> 0	0.200
114		74	65	63	72	61	68	67.0	0.389

	To assess how globally data on medication errors and medication related harm is recorded beyond pharmacovigilance and implement a global database which would collect data on								
	medication errors and near misses that especially low- and middle-income countries could								
115	report to.	69	63	62	65	63	80	66.9	0.451
	To examine global legislation for medication safety, what policies are fundamental for assuring and improving medication safety?								
116		84	68	55	64	69	61	66.8	0.475
117	To identify the predictor factors for patient readmission to hospital for medication-related problems in patients with complex conditions.	71	81	54	69	71	54	66.7	0.512
118	To identify the best practices for outpatient medication reconciliation followed by creating a toolkit out of the best practices (incl. interventions aimed at patients/caregivers, staff, clinics, health systems, and communities).	81	62	55	71	71	60	66.7	0.475
	To conduct intervention study which utilizes mixed methods approach to transform a unit/hospital with high prevalence of medication errors to a low prevalence.			-					
119	_	74	74	57	69	74	52	66.7	0.451

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	To examine errors related to								
	look-alike, sound-alike								
	medications that occur at the								
	point of care and identify								
	methods to prevent them.								
120	methods to prevent them.	90	72	40	72	72	45	(( (	0.460
120		89	73	48	73	73	45	66.6	0.469
	To identify and evaluate								
	potential strategies into how								
	parents and caregivers can be								
	effectively supported with								
	providing high-risk medications								
	to children.								
101	to children.	70	72		7.5		(2)		0.510
121		79	73	55	75	55	63	66.5	0.512
	To examine the role of Artificial								
	Intelligence in reducing								
	medication-related patient								
	harm from the perspective of								
	multiple stakeholders including								
	clinicians, patients, consumers								
	and administrators.								
100	and administrators.	77		79	(1	(0	50		0.407
122		76	66	/9	61	68	50	66.5	0.407
	To implement an information								
	campaign which would aim to								
	inform population in in a more								
	conscientious way about								
	traditional medicines and food								
	supplements possible risks and								
	interactions with their usual								
	medication.								
123		82	63	50	74	69	61	66.4	0.395
	To assess critical points of the								
	medication process for								
	injectable medicines in high-								
	stakes environment, such as								
	ED, anaesthesia, critical care,								
	and develop strategies for								
	improvement.								0 = 4 -
124		79	79	46	75	71	48	66.3	0.512
	To identify strategies to								
	enhance patient								
	communication processes on								
	medication management in								
	hospitals and across transitions								
125	of care.	81	67	55	73	70	52	66.2	0.420
123	or care.	01	07	33	13	70	32	00.2	0.740

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	To examine the barriers to								
	medication reporting amongst								
	health care professionals in								
	LMIC and what can be done to								
	overcome them.								
126	overcome them.	85	65	64	63	57	63	66.2	0.475
	To conduct a patient-centred								
	study on the effectiveness of								
	medication counselling on								
	decreasing misuse and								
107	identifying errors.	0.4		40	=-			<b>45.0</b>	0.405
127		81	68	60	71	61	55	65.8	0.407
	To examine each step of the								
	medication process, what is the								
	impact of interruptions in								
	different stages and what								
	implements can be made for								
	improvement?								
128	F	76	71	48	76	71	53	65.8	0.414
	To review current prescribing		<u> </u>						
	guidelines and develop								
	strategies to reduce								
	overprescribing, particularly for								
	opioids.								
120	opioids.	02	77	2.4	77	7.4	F0.	<b>7</b> 7	0.506
129	77 11 16 16 11 11	82	77	34	77	74	50	65.7	0.506
	To identify a set of best trigger								
	tools to identify a declared or								
	potential adverse effect with								
	high risk medications.								
130		77	73	61	70	65	48	65.5	0.519
	To assess and identify the weak								
	links in the medication safety								
	process chain to consolidate the								
	local systems and resolve the								
	occurring difficulties and								
	differences in practice.								
131	r	75	82	44	70	64	58	65.5	0.414
	To identify which human								
	factors are either involved in or								
	contribute to medication-								
	related patient harm.								
132		83	68	48	74	70	50	65.4	0.451
192		09		10	, ,	10	30	00.1	001

	To assess the role of regulators,								
	manufacturers and the pharmaceutical industry in								
	reducing medication related								
	harm.								
133		73	68	58	60	68	67	65.3	0.432
	To evaluate the use of mobile technology for patients in								
	supporting safer medicines								
	managements, including								
	monitoring of health conditions, education and								
	prompting adherence?								
134		83	63	65	66	63	53	65.3	0.420
	To conduct a study into patient-								
	user strategies, such as e-health and patient information, as								
	facilitators for safe medication								
125	use and medication adherence.	92	<b>70</b>	60	72	<b>70</b>	F./	(5.2	0.504
135	To design and evaluate effective	82	60	60	73	60	56	65.3	0.506
	interventions designed to								
	improve the uptake of health								
	literacy practices related to medication teaching.								
136	medical teaching.	69	61	71	59	56	75	65.2	0.358
	To implement interventions								
	and WHO recommendations that would ensure the correct								
	dosage and safety of medicines								
	for children.								
137	To identify weak points in the	67	70	36	69	74	74	65.2	0.512
	design of medication and/or its								
	packaging and develop changes								
	which will help reduce mistakes in medication administration.								
138	iii inedication administration.	83	70	53	68	70	48	65.1	0.383
	To investigate the prevalence of								
	adverse drug events and								
	medication errors contributed by extemporaneous								
139	compounding medications for	65	70	66	61	66	63	65.1	0.494

	children, due to limited access								
	to safe and effective medicines.								
	To perform a study on the role								
	of pharmacists in elderly								
	patients transitions of care.								
	What is their role, how can it be								
	improved and what is the								
	impact?	20				.=			
140		89	73	41	68	67	52	64.9	0.481
	To develop standard protocols								
	for the preparation, administration, monitoring of								
	insulin in acute care settings, for								
	application internationally.								
141	application internationally.	72	74	39	70	73	61	64.7	0.500
111	To identify the impact of the	, 1		37	7.0	7.5	01	V	0.000
	availability of the Children's								
	Medicines List on the unmet								
	needs of Children's Medicines								
	in Sub-Saharan Africa.								
142		77	64	61	61	57	68	64.6	0.296
	To perform an observational								
	multisite study (across tertiary,								
	long-term care, and primary								
	care facilities) to assess how								
	harm from drug interactions								
	(including traditional and								
	complementary medicines) are averted.								
143	averted.	90	64	50	65	63	55	64.5	0.426
173	To investigate best practices to	70	04	30	0.5	0.5	33	07.3	0.720
	prevent adverse drug reactions								
	for people with previous								
	medication-related allergic								
	reactions and hypersensitivities.								
144		67	74	50	74	75	46	64.3	0.481
	To assess the effectiveness of		-						
	implementing a tool in								
	detecting medication errors and								
4.45	harm in primary care?	(0)	70	40	70	(2)		(42	0.420
145		69	/0	48	73	63	64	64.3	0.438

	To investigate methods of strengthening the review system of drug names, to prevent the confusion of lookalike, sound-alike medications.								
146	,	80	70	45	71	73	48	64.3	0.438
147	To research into the development of novel electronic health record data entry methods, to facilitate accuracy and reduce errors.	(0	(4)	40	(0)	74	-	(10)	0.424
147	T 1	69	61	60	68	71	55	64.0	0.426
148	To evaluate the implementation of QR coding for all medicines in their respective market and assess the public awareness of the need to verify the authenticity of medicines in countries which have implemented the QR coding.	80	62	63	63	63	53	63.7	0.420
148	To identify best strategies to	80	62	6.5	0.5	0.5	53	63./	0.420
149	inform the public that taking multiple medications can carry risks.	82	61	50	69	58	62	63.7	0.444
149	To identify and evaluate the	02	01	30	09	36	02	03.7	0.444
150	primary national systems and/or strategies in place for identifying the burden and scope of medication-related harm in high-, middle-, and low-income countries?	86	55	48	60	65	69	63.6	0.451
	To undertake exploratory								
	research on the feasible implementation of a feedback system for physician prescribing practices.								
151		75	67	60	73	67	40	63.5	0.444

	To assess the effectiveness of different implementation strategies for sustaining and/or scaling up evidence-based interventions to reduce, eliminate or ameliorate medication-related patient								
152	harm?	70	70	48	68	68	58	63.4	0.401
132	To identify through literature review most effective interventions for medication safety and evaluate and measure their effectiveness through piloting sites using pre-set indicators.	70	70	40	00	- 00	30	03.4	0.401
153	indicators.	84	71	36	73	68	48	63.4	0.463
	To assess how innovative models of pharmaceutical care and diffusion of technology can be used to reduce medication related harm.								
154		78	65	53	66	64	55	63.3	0.383
155	To investigate the problem of fake medicines and their international trade from surveillance, prevention, and interdiction standpoint to get a better and more resolute idea of the true scope and prevalence of substandard and falsified medicines.	60	68	55	58	70	69	63.2	0.407
133	To identify through systematic literature review best medication practices which could be implemented	00	00	. 33	36	70	0)	0.5.2	0.407
156	(modified to country context) in other countries?	78	63	40	65	71	63	63.2	0.426

					T	1			,
	To conduct a pilot study of the								
	implementation of various								
	strategies to reduce the use of								
	potentially dangerous								
	medications amongst elderly patients.								
157	patients.	71	74	30	74	72	58	63.2	0.519
137	To establish the scale and	/ 1	/4	30	/4	12	36	03.2	0.319
	burden of inappropriate non-								
	evidence-based use of								
	antipsychotic and								
	antidepressants.								
158	and opiosania.	84	68	50	59	64	52	63.0	0.414
	To assess the medication safety								
	practices in long-term care								
	facilities.								
159		92	65	30	68	68	55	63.0	0.420
	To assess the health outcomes								
	in patients with chronic								
	conditions who receive deliberate sensitization about								
	possible side effects, adverse effects, interactions during their								
	visits to the clinic against								
	another group which receives								
	the normal (no intervention)								
	counselling.								
160	counsening.	79	58	58	64	64	55	63.0	0.389
100	To assess cost-effective ways to	17	30	30	04	04	33	55.0	0.507
	ensure medication compliance								
	and investigate the role of								
	mobile technology/assistive								
	technology, to increase								
	compliance in resource poor								
	settings.								
161	_	72	55	61	70	59	61	62.9	0.481
	To investigate the reliability of								
	medication safety indicators								
	and tools in integrated care								
1/2	settings.	77	<b>7</b> 5	75	70	F 2	40	(2.5	0.202
162		76	65	65	68	53	48	62.5	0.383

	THE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			1	1	T		1
	To conduct a multisite								
	workplace analysis to determine								
	required staffing levels to								
	achieve minimal medication								
	errors.								
163		77	68	68	58	68	38	62.5	0.444
	To identify methods to reduce								
	inappropriate prescribing of								
	antibiotics, and to develop								
	strategies to minimize use.								
164		76	69	33	78	70	48	62.3	0.475
	To conduct a pilot intervention								
	to develop a sharing platform								
	among hospitals for describing								
	errors and solutions.								
165		77	68	26	68	64	69	62.2	0.469
	To evaluate the current								
	electronic prescribing process								
	and pilot a redesign on								
	indication and decision								
	supporting drug of choice.								
166		71	60	58	71	63	50	62.1	0.401
	To perform a study evaluating								
	the strategies to improve								
	patient monitoring of adverse								
	effects of medication.								
167		83	64	45	64	63	52	62.1	0.401
	To analyze the organizational								
	and functional health care								
	workforce: what can be better								
	configured, developed, and								
	managed to promote								
	medication safety?								
168	•	74	65	53	68	61	53	62.0	0.377
	To develop safe self-			·					
	administration models for								
	patients or care takers with								
	chronic diseases to self-								
	administer their medication in								
	hospital and home settings.								
169		73	73	58	57	59	52	61.9	0.426

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	To identify gaps in								
	deprescribing potentially								
	inappropriate medicines in								
	older people.								
170		68	63	56	68	68	48	61.8	0.377
	To create an evaluation								
	framework that measures								
	improvement initiatives so that								
	those can be compared (by how								
	effective, efficient, timely,								
	patient-centred, equitable and								
	safe each intervention is).								
171		71	65	58	65	56	55	61.6	0.395
	To reduce harm related to								
	interactions by supporting								
	creation of an app which would								
	help prescribers in reducing the								
	risk of interactions, supporting								
	in decision making, offering								
	possible alternative options,								
	such as deprescribing, while								
	considering patient's								
	pathologies.								
172		76	67	55	63	65	43	61.4	0.420
	To perform an intervention								
	study evaluating whether the								
	provision on information about								
	patient therapy to community								
	pharmacists leads to a decrease								
	in medication errors.								
173		79	64	50	60	61	55	61.4	0.432
	To conduct and evaluate the								
	impact of medication								
	reconciliation practices during								
	transitions of care (e.g. post-								
	hospital discharge).								
174		86	64	20	64	82	52	61.4	0.519
	To build methodological								
	capacity in low- and medium-								
	income countries (LMIC) with								
	the aim of improving								
	pharmaco-epidemiological								
455	research practices.	0.4	50	50		F.O.		(4.2	0.264
175		81	53	59	53	58	64	61.3	0.364

	To assess how different interventions (including								
	monitoring systems) reduce incidence of harm due to drug-								
	drug interaction in poly- medicated elderly patients.								
176		75	68	47	68	65	45	61.2	0.389
	To identify through pilot studies best practices on how to								
	make health care facilities and								
	health care providers accept the existing essential drug lists; and								
	accept the use of Standard Treatment Guidelines in								
	countries where they exist and								
	create them where they do not exist to ensure safe, rational use								
	of medicines.								
177	How to adapt patient safety	67	65	31	71	62	72	61.2	0.401
	indicators obtained from								
	routinely collected data to different contexts and countries								
450	worldwide?	40							0.200
178	To apply modelling techniques	60	55	61	63	61	68	61.1	0.389
	on the intervention of specific								
	medication problems in specific regions/countries, to ensure an								
	effective and efficient allocation								
179	of resources.	61	58	58	51	61	78	60.9	0.358
	To perform a cross-sectional								
	study across primary care facilities assessing medication								
	safety and exploring strategies in which it can be improved.								
180	-	79	62	37	76	64	48	60.9	0.451
	To perform a scoping review on devices/aids available to								
	patients for reducing								
181	medication errors.	77	63	56	65	57	48	60.8	0.426

To perform a cost-effective analysis on interventions to improve medication adherence to evidence-based cardiovascular pharmacotherapy and other								
chronic conditions.	80	69	36	70	55	55	60.7	0.481
To study the feasibility, impact and scalability of awareness among patients and clinicians, that low kidney function as a major risk factor for medication-related patient safety events, delivered in a variety of ways - pharmacy, clinic, telephone, smart phone application?								
To conduct a study within long- term care/nursing home facilities, examining the surveillance and reporting systems of adverse drug events and patient harm due to atypical antipsychotics.	68	58	54	6/	63		60.6	0.420
	84	61	43	60	63	52	60.5	0.438
To form and divulge basic notions about antibiotics, their uses, operations and sequential effects for patients to understand in what moments it is correct to prescribe them and the importance of following the guidelines recommended by their physician.								
	81	67	26	65	65	58	60.2	0.438
considerations of medication safety in emergencies and create key policy recommendations on reduction of medication-related harm within the overall cycle of	71	60	64	20	50	10	60.1	0.383
	analysis on interventions to improve medication adherence to evidence-based cardiovascular pharmacotherapy and other chronic conditions.  To study the feasibility, impact and scalability of awareness among patients and clinicians, that low kidney function as a major risk factor for medication-related patient safety events, delivered in a variety of ways - pharmacy, clinic, telephone, smart phone application?  To conduct a study within long-term care/nursing home facilities, examining the surveillance and reporting systems of adverse drug events and patient harm due to atypical antipsychotics.  To form and divulge basic notions about antibiotics, their uses, operations and sequential effects for patients to understand in what moments it is correct to prescribe them and the importance of following the guidelines recommended by their physician.  To identify the special considerations of medication safety in emergencies and create key policy recommendations on reduction of medication-related	analysis on interventions to improve medication adherence to evidence-based cardiovascular pharmacotherapy and other chronic conditions.  To study the feasibility, impact and scalability of awareness among patients and clinicians, that low kidney function as a major risk factor for medication-related patient safety events, delivered in a variety of ways - pharmacy, clinic, telephone, smart phone application?  To conduct a study within long-term care/nursing home facilities, examining the surveillance and reporting systems of adverse drug events and patient harm due to atypical antipsychotics.  84  To form and divulge basic notions about antibiotics, their uses, operations and sequential effects for patients to understand in what moments it is correct to prescribe them and the importance of following the guidelines recommended by their physician.  81  To identify the special considerations of medication safety in emergencies and create key policy recommendations on reduction of medication-related harm within the overall cycle of	analysis on interventions to improve medication adherence to evidence-based cardiovascular pharmacotherapy and other chronic conditions.  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To study the feasibility, impact and scalability of awareness among patients and clinicians, that low kidney function as a major risk factor for medication-related patient safety events, delivered in a variety of ways - pharmacy, clinic, telephone, smart phone application?  To conduct a study within long-term care/nursing home facilities, examining the surveillance and reporting systems of adverse drug events and patient harm due to atypical antipsychotics.  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To conduct a study within long-term care/nursing home facilities, examining the surveillance and reporting systems of adverse drug events and patient harm due to atypical antipsychotics.  To form and divulge basic notions about antibiotics, their uses, operations and sequential effects for patients to understand in what moments it is correct to prescribe them and the importance of following the guidelines recommended by their physician.  81 67 26 65  To identify the special considerations of medication-safety in emergencies and create key policy recommendations on reduction of medication-related harm within the overall cycle of	analysis on interventions to improve medication adherence to evidence-based cardiovascular pharmacotherapy and other chronic conditions.  80 69 36 70 55  To study the feasibility, impact and scalability of awareness among patients and clinicians, that low kidney function as a major risk factor for medication-related patient safety events, delivered in a variety of ways - pharmacy, clinic, telephone, smart phone application?  To conduct a study within long-term care/nursing home facilities, examining the surveillance and reporting systems of adverse drug events and patient harm due to atypical antipsychotics.  84 61 43 60 63  To form and divulge basic notions about antibiotics, their uses, operations and sequential effects for patients to understand in what moments it is correct to prescribe them and the importance of following the guidelines recommended by their physician.  81 67 26 65 65  To identify the special consideration on reduction of medication related harm within the overall eyele of	analysis on interventions to improve medication atherence to evidence-based cardiovascular pharmacotherapy and other chronic conditions.  80 69 36 70 55 55  To study the feasibility, impact and scalability of navareness among patients and clinicians, that low kidney function as a major risk factor for medication-related patient safety events, delivered in a variety of ways - pharmacy, clinic, telephone, smart phone application?  To conduct a study within long-term care/nursing home facilities, examining the surveillance and reporting systems of adverse drug events and patient mand due to atypical antipsychotics.  84 61 43 60 63 52  To form and divulge basic notions about antibiotics, their uses, operations and sequential effects for patients to understand in what moments it is correct to prescribe them and the importance of following the guidelines recommended by their physician.  81 67 26 65 65 58  To identify the special considerations of medication safety in emergencies and create key policy recommendations on reduction of inedications end accommended and many within the overall cycle of	analysis on interventions to improve medication alternenee to evidence-based cardiovascular pharmacotherapy and other chronic conditions.  80 69 36 70 55 55 60.7  To study the feasibility, impact and scalability of awareness among patients and clinicians, that low kidney function as a major risk factor for medication-related patient safety events, delivered in a variety of ways - pharmacy, clinic, telephone, smart phone application?  88 58 54 67 63 52 60.6  To conduct a study within long term care/nursing home facilities, examining the surveillance and reporting systems of adverse drug events and patient hard due to atypical antipsychotics.  84 61 43 60 63 52 60.5  To form and divulge basic notions about antibiotics, their uses, operations and sequential effects for patients to understand in what moments it is correct to prescribe them and the importance of following the guidelines recommended by their physician.  81 67 26 65 65 58 60.2

64	60.0	0.401
55	59.8	0.377
43	59.5	0.389
55	59.4	0.432
50	50.2	0.401
50	39.3	0.401
53	59.2	0.352
55	37.2	0.554
50	59.2	0.414
48	59.2	0.401
		55 59.4 50 59.3 50 59.2

	To identify methods of monitoring patient medication								
	adherence and develop evidence-based practices to								
	improve adherence, reduce patient harm and improve								
	outcomes.								
195	To evaluate effectiveness of	75	72	33	69	60	42	58.6	0.525
	treatments used to manage								
	extravasation of intravenous medications to minimize								
196	medication related harm.	73	73	43	66	59	39	58.6	0.457
170	To design supporting tools for	73	13	7.5	00	37	37	30.0	0.437
	health care professionals which help to prescribe and dispense								
	appropriate medications for old								
197	people.	54	59	41	70	69	57	58.5	0.426
	To assess practices which can increase or decrease errors in								
	anticoagulant therapy of								
	patients who have transitions of care between secondary and								
198	primary care.	71	70	34	55	63	58	58.5	0.420
190	To investigate the change in	/ 1	70		33	03	36	36.3	0.420
	medication safety practice after presenting medication error								
	root cause analysis to healthcare								
199	professionals.	77	61	50	59	55	48	58.4	0.420
	To assess the global prevalence, burden and geographical								
	variation of serious medication								
	related harm through a systematic literature review.								
200	•	84	55	43	60	50	59	58.4	0.407
	To investigate the impact of changing the package on the								
	uptake of safe medication practices.								
201	praedees.	74	53	63	58	56	47	58.3	0.321

	To investigate medication review process, which components are vital during medication review to ensure appropriate prescribing for patients with multiple								
202	morbidities.	61	64	43	62	69	50	58.2	0.432
	To design a patient pathway based monitoring framework and supporting metrics for evaluation of safe prescribing and administration of medicines.								
203		66	63	50	58	55	58	58.2	0.352
	To create guidelines for safer use of paracetamol (acetaminophen) in children to address safe prescribing, safe and clear dosing schedule and safe dispensing and administration.								
204		79	66	35	70	50	48	58.1	0.543
205	To identify the challenges and opportunities for health care professionals and the health care system to improve medication safety in transitions of care.	70	57	41	64	60	57	58.1	0.407
203	To investigate what percentage	70	31	41	04	00	31	30.1	0.407
206	of medication errors are due to similarities in medication appearance.	71	63	45	64	62	43	58.0	0.438
	To assess the prevalence of drug-drug interactions where one of the interacting medicines is prescription medicine and the other is non-prescription medicine.								
207		79	60	43	64	48	55	57.9	0.383

208	To conduct an observational study in hospitals that systematically conducts medication reconciliation at discharge. How many adverse medication-related events, rehospitalizations and deaths are avoided?  To implement data analytics to	80	68	29	55	70	45	57.8	0.469
	reduce medication related patient harm.								
209		58	65	60	69	59	35	57.8	0.352
210	To investigate how to increase public reporting of health care associated infections and increase rewarding/giving incentives to healthcare facilities which meet quality and safety standards.	80	53	45	53	58	58	57.6	0.364
211	To examine how the role of health care professionals can be strengthened to ensure appropriate polypharmacy in the elderly.	64	55	43	62	64	57	57.5	0.395
	To conduct a study investigating the impact of procurement based on clinical efficacy and safety, with the use of longitudinal data analytics thereby optimising benefits and minimising harm.								
212	To identify and the first	61	64	57	58	58	47	57.5	0.321
213	To identify and assess the best ways and tools for health care professionals to provide effective information about safe use of medications to patients and caregivers.	67	67	39	69	57	45	57.4	0.401

	Γ				ı	ı	1		, , , , , , , , , , , , , , , , , , , ,
	To perform a study								
	investigating the underlying								
	causes, extent, and the								
	consequences of a lack of								
	communication between								
	different healthcare								
	professionals and between								
	healthcare professionals and								
	their patients.								
214	their patients.	77	61	50	52	53	50	57.3	0.383
	To identify collaborative team		-						
	practices utilised by health care								
	professionals to ensure								
	appropriate drug monitoring								
	and patient involvement?								
215	and patient involvement:	70	59	52	57	65	38	57.0	0.395
	To conduct an assessment on	, ,			37	05	30	20	
	compliance and the reduced								
	risk of adverse drug events in								
	patients taking novel oral								
	anticoagulants in lieu of								
	warfarin.								
216		72	63	34	70	59	43	56.9	0.475
	To conduct an intervention								
	study to determine whether								
	handling of intravenous fluids								
	alike medications (with								
	protected access and patient-								
	specific details) will reduce								
	medication-related harm.								
217	inedication related name.	76	62	36	62	57	48	56.9	0.401
	To ascertain and develop the								
	role of clinical informaticians to								
	bridge the gap between health								
	IT design implementation and								
	healthcare professionals.								
218	nemarcare protessionals.	69	52	63	60	53	45	56.9	0.395
	To conduct a study								
	investigating patient stock-								
	piling of medications and								
	conditions of their storage,								
	their beliefs related to use of								
	medicines and sources of								
219		75	45	58	55	53	53	56.3	0.377
217	careacon mitorinacion.	7.5	r)	50	55	33	55	50.5	0.511

	T	ı			T	T		T	1
	To develop and validate models								
	focused on aspects of hospital								
	layout and healthcare								
	worker/patient flow to reduce								
	HAIs.								
220		71	47	53	61	59	47	56.3	0.340
	To evaluate which strategies								
	work best to ensure the								
	accuracy of a patients`								
	medication management across								
	the continuum of care.								
221	the continuum of care.	65	64	31	60	68	50	56.2	0.414
221	To assess how health care	03	04	31	00	00	30	30.2	0.414
	professionals can prevent drug								
	interactions (drug-drug, drug-								
	disease) in a simple and								
	applicable way during daily								
	working.								
222		73	64	21	64	62	52	56.2	0.457
	To identify strategies to								
	improve compliance of								
	medication in patients,								
	caregivers and health								
	professionals. What are								
	effective newly developed tools								
	for medication safety?								
223	,	63	48	50	58	67	50	56.2	0.432
	To identify the best and most								
	cost-effective ways to transfer								
	medication records in								
	transitions of care.								
224		73	68	39	55	64	38	56.1	0.420
	What strategies can be	7.0	00			0.	30		0.,20
	implemented to reduce the								
	overuse of medications with								
	poor effectiveness in terminally								
	ill cancer patients?								
225	in career patients:	67	61	47	65	44	53	56.1	0.370
223	To investigate what are the	07	01	77	05	***	33	50.1	0.570
	specific barriers to address								
	appropriate polypharmacy								
	through interprofessional								
226	working in low-, middle- and		55	50	47	58	60	55.8	0.352
226	high-income countries.	64	35	50	4/	58	60	33.8	0.352

	To examine whether the								
	involvement of Health IT is								
	functioning as expected to								
	improve medication safety.								
227		75	61	50	50	53	45	55.6	0.352
	To investigate patient access								
	and use of online medication								
	record systems (such as OpenNotes) and medication								
	schedules.								
228		78	55	62	53	50	36	55.4	0.377
	To conduct exploratory								
	research on new methods to								
	improve user-centred design								
220	and technology.		477	(2			40	FF 4	0.264
229	To explore ways to increase	66	47	63	61	53	42	55.4	0.364
	multi-professional team work								
	and build respectful								
	environment where teams								
	recognize and respect the skills								
	of each member in ensuring								
230	medication safety.	70	52	61	57	58	33	55.1	0.389
230	To assess the required global	/0	52	01	37	38	33	33.1	0.389
	standards required to be in								
	place before introducing a new								
	digital system to any market.								
231		68	53	56	62	47	44	55.0	0.340
	To raise awareness amongst								
	Ministries of Health and								
	healthcare leaders in developing								
	countries to highlight the importance of medication								
	safety in primary care.								
232	., . r ,	68	50	45	53	53	61	54.8	0.346
	To identify medications that								
	requires invasive laboratory								
	monitoring (e.g. blood tests,								
	ECG) and validating a standard recommendation.								
233	recommendation.	76	52	38	69	62	31	54.7	0.444
		7.0	92	30	0,	02	91	U	V

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	To determine the incidence of antibiotics obtained without								
	prescription or from earlier								
	consultation by a physician, and								
	how information technologies								
	can reduce risky behaviours in								
	LMIC.								
234	11110	71	53	50	50	59	44	54.6	0.333
	To investigate the prescribing								
	indication for opioids in								
	middle- or third-world								
	countries, has liberal								
	prescribing for end-of-life care								
	transitioned into use for non-								
225	cancer pain management.	7.4	<b>5</b> 0	5.2	44	57	53	546	0.204
235	To examine the impact of using	74	50	53	41	5/	53	54.6	0.284
	external, non-biased safety								
	testing companies, in evaluating								
	the risks associated with								
	potential brand names.								
236		71	53	56	58	50	39	54.5	0.352
	To investigate strategies to								
	enhance patient engagement								
	and better use patient								
	information, to be applicable								
	and achievable for patients across all income-level								
	across all income-level countries.								
237	countries.	53	53	44	53	58	66	54.5	0.340
231	To assess patient attitudes and	33	33	77	33	30	00	31.3	0.510
	behaviours towards use and								
	storage of medications in								
	relation to health outcomes.								
238		82	42	47	63	47	45	54.4	0.383
	To identify and examine								
	different types of surveillance								
	programmes utilised to monitor								
	medications with the potential								
239	for abuse.	70	47	58	61	50	39	54.2	0.346
239		70	4/	36	01	30	39	34.2	0.540

	To perform a qualitative cross- professional study that addresses how to optimise the role of the pharmacist in								
240	medical teams, medication administration and delivery.	77	55	40	55	55	43	54.2	0.395
	To create a study assessing long-term adherence and compliance of patients who have complex multi-medication management, by looking from both the perspective of the patient and health care professional.								
241	/r: 1.1.	75	58	36	62	48	46	54.1	0.494
	To examine ambulatory practice prescribing, which types of medications, or combinations of medications, have a high risk of safety problems in patients.								
242		65	61	33	61	57	48	54.1	0.457
	To create instructions for countries and institutions to help them to set up a good interdisciplinary concertation/coordination to avoid drug related errors/events.								
243		69	57	45	50	53	50	54.0	0.377
	To assess the lack of communication in transitions of care (i.e. at hospital discharge) by conducting an observational and interventional study?								
244	77 11 10 1	77	57	26	61	61	41	54.0	0.457
2.5	To identify what strategies practitioners can apply individually to reduce medication errors.							50.0	0.461
245		78	60	43	60	45	38	53.8	0.401

	To identify strategies to								
	increase adverse drug event								
	reporting/post marketing								
	surveillance amongst								
	physicians.								
240	1 7	66	63	30	62	56	46	53.8	0.463
240		00	0.5	30	02	30	40	33.0	0.403
	To assess improvements in								
	medication safety after								
	introducing restrictions on drug								
	dispensing (requirement for a								
	valid prescription).								
247	7	74	55	45	53	53	43	53.6	0.370
	To conduct an observational								
	study to identify critical								
	laboratory tests, which if								
	incorrect, may lead to a higher								
	risk of medication errors								
2.40	occurring.	(2)		47	50	50	<b>5</b> 0	F2 F	0.222
248		63	61	47	50	50	50	53.5	0.333
	To assess the influence of social								
	determinants of health on								
	adherence to medicines among								
	patients with chronic diseases.								
249		64	52	33	55	41	76	53.5	0.444
	To evaluate the prevalence of								
	unnecessary medications and								
	food supplements, drug-drug								
	interactions and drug-disease								
	interactions among patients								
	who take multiple medications.								
250		70	63	29	53	64	42	53.3	0.370
230	To assess the nature and	70	0.5	29	33	04	42	33.3	0.570
	frequency of off-label								
	medication use contributing to								
	medication-related harm.								
251		77	61	53	43	43	43	53.3	0.407
	To assess the effectiveness of								
	annual meetings with								
	community pharmacist, to								
	discuss which medicines (incl.								
	OTC medications) the patient is								
	taking and how and when they								
	are taking them, can reduce								
252		77	50	48	50	52	40	53.0	0.401
232	Incarcation-iciated Hallii	1.1	50	40	50	32	40	55.0	0.701

	among patients who take multiple medications.								
253	To examine incidents of product contamination and drug mislabelling. What techniques can be utilised to improve identification?	73	55	40	55	50	44	52.9	0.358
	To evaluate if there is a difference in factors which contribute to medication errors depending on the level of health care (primary, secondary, tertiary) and health care system.								
254	To conduct qualitative research on administrators and other managerial decision-makers addressing accountability on the decisions they make that create medication-related harm.	80	48	48	45	48	48	52.8	0.401
255	To critically evaluate implementation of a standardized opioid tolerance assessment and documentation prior to administration.	70	50	60	61	53	45	52.8 52.7	0.364
256	To investigate and develop model success stories utilising health IT.	/3	30	50	01	33	28	32./	0.377
257	To evaluate whether expert patient engagement in health systems can reduce severe, avoidable medication-related patient harm.	68	47	50	53	50	47	52.5	0.333
258		64	47	50	61	44	48	52.4	0.309

	To assess various human								
	factors, such as level of								
	information on medications, as variates to measure which								
	human factors in patients and								
	health care professionals effect								
	prevalence of medication								
250	errors.	50	47	50				50.0	0.000
259	To evaluate incidents of	52	47	50	55	62	47	52.3	0.302
	inappropriate polypharmacy								
	and develop strategies to reduce								
	harm and improve patient								
	health outcomes.								
260	7 6 1 1	62	60	29	55	63	45	52.3	0.389
	To perform a study targeting health care prescribers,								
	addressing how to promote								
	effective communication and								
	collaboration amongst other								
	prescribing providers.								
261	II	64	53	40	55	55	45	52.0	0.358
	How does operationalization of 'resilience' in the health care								
	system affect medication								
	safety?								
262	•	68	47	74	45	47	30	51.8	0.395
	To conduct an intervention								
	study enhancing patient								
	involvement with their prescriber, does this empower								
	patients to raise medication								
	concerns promptly?								
263		73	53	45	61	45	35	51.7	0.377
	To conduct research into the								
	development of expert systems								
	encompassing a wide scope of patient information (including								
	age, gender, genetic makeup,								
	laboratory tests), to aid as a								
	clinical decision support.								
264		50	53	50	50	60	48	51.7	0.321

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	To conduct a study examining								
	the role of individual health								
	professionals and inter-								
	professional collaboration, who								
	is accountable for ensuring								
	medication safety?								
265		83	55	45	45	38	45	51.7	0.389
	To determine factors that drive								
	spread of HAIs and investigate								
	new approaches that minimize								
	the role of the healthcare								
	environment in the spread of								
	germs.								
266	8-1-1	68	61	39	53	50	39	51.7	0.352
	To investigate which quality								
	improvement factors also								
	reduce medication-related								
	harm.								
267	11411111	55	56	44	55	56	44	51.7	0.284
207	To identify the role of different	33	30		33	30		31.7	0.201
	actors in health care in reducing								
	global incidence of medication								
	related adverse events.								
268	related adverse events.	71	50	48	45	47	48	51.5	0.358
200	To develop and evaluate a	/ 1	30	40	43	4/	40	31.3	0.556
	system that monitors for the								
	incompatibility of								
	chemotherapy drugs with								
	medications prescribed for								
	other comorbidities, to reduce								
	unwanted synergies.								
269		73	58	26	57	60	35	51.4	0.426
	To assess the efficacy of								
]	antibiotic delivery by the per								
]	lingual route, what is the impact								
	on the gut flora and								
]	contribution to antimicrobial								
]	resistance?								
270		74	53	53	44	47	38	51.4	0.333
	To perform a study identifying		-						
	medications (and/or								
	combination of medications),								
	that can potentially lead to acute								
271		67	57	23	59	57	46	51.4	0.457

	kidney injury in high-risk critically ill patients.								
	To conduct a multi- professional study implementing different interventions to investigate the effect on reducing medication errors.								
272	To conduct a study on	60	66	37	50	55	40	51.3	0.383
	developing valid and reliable measures of patient engagement.								
273	To assess the clinical	62	55	50	55	37	45	50.7	0.395
274	significance of drug interactions based on recent studies and creating evidence-based strategies in deprescribing.	68	45	32	57	50	50	50.4	0.364
275	To create a study comparing effectiveness of two systems, one where medication errors and adverse drug reactions are reported to different entity/portal, and second where these two are combined and the approach is integrated.	75	48	63	47	36	33	50.3	0.401
	To conduct a study on enhancing the role of pharmacists in multidisciplinary collaboration with prescribers. What are the attitudes of pharmacists and prescribers, how will collaboration best be utilised?								
276		75	55	33	48	52	38	50.2	0.401

277	To measure which is the most sensitive moment, weekday and time of the day for occurrence of medication errors: ordering, prescribing, preparing, dispensing, administering or monitoring?	70	52	36	50	52	39	49.9	0.383
278	To identify the challenges involving the patient and their caregivers in the campaign to improve medication safety, and what resources and support is required?	58	50	39	53	53	48	49.9	0.309
270	To conduct a qualitative study for patients, what are their priorities for reducing the risk of medication-related harm?	30	30	37	33	33	70	77.7	0.507
279	To investigate the impact of personalised medicines.	67	45	45	60	38	43	49.6	0.389
280	To assess through a pilot study if each time patient interacts with health care system the health care professionals would be obligated to look at least the past three visits back would reduce medication-related harm and help health care professionals to recognize medication-related harm	55	48	53	47	45	50	49.5	0.340
281	To address the key issues in	67	47	58	42	47	36	49.5	0.389
	reconciling prescriptions and administration across settings through a pilot study.								
282		75	50	18	60	53	40	49.3	0.420

	7T 1 . 1 .					I			l
	To conduct exploratory								
	research expanding the role of								
]	nurses to take on leadership								
	roles in preventing medication-								
	related patient harm.							40 -	0.04-
283	71	61	47	42	56	47	39	48.5	0.315
	To conduct a								
	multisite/multimodal study								
	evaluating the role and impact								
	of utilising digital methods in								
	the health care process to reduce medication errors.								
20.4	reduce medication errors.	(2)	40	20		47	40	40.2	0.240
284	7T 1 . 1' 1	63	48	38	55	47	40	48.3	0.340
]	To conduct a qualitative study								
	seeking to examine how to								
	enhance patient engagement								
	amongst patients and their								
	family, to improve medication								
285	safety.	74	45	29	53	37	53	48.3	0.270
283	To evaluate the efficacy of	/4	45	29	53	3/	53	48.3	0.370
	generic antibiotics compared to								
]	their original patented brand. Do they have the same impact								
	on antibiotic-resistant bacteria								
	in the digestive flora?								
286	in the digestive norar	71	44	44	42	47	41	48.2	0.340
200	To systematically evaluate the	/ 1	74	77	42	47	+1	70.4	0.540
	most appropriate devices to								
	deliver intravenous medications								
	assessing the risk of								
	complications, and to								
	additionally investigate.								
287	additionally investigate.	58	55	38	52	53	33	47.9	0.389
201	To gather evidence about the	30	33	30	32	33	33	11	0.507
	clinically important role of								
	pharmacists in medication								
	safety.								
288	<del>7 -</del>	66	52	24	50	55	40	47.9	0.420
	To perform a qualitative study								
	investigating what are the								
	perceived causes of unsafe								
	medication practices.								
289		79	45	42	48	40	33	47.8	0.444
289	medication practices.	79	45	42	48	40	33	47.8	0.444

	To assess the magnitude of severe drug interactions due to								
	poly-pharmacy in elderly.								
290		64	53	31	50	50	37	47.4	0.389
	To conduct a study designed to investigate the intentional non-								
	adherence of medication.								
291		65	45	45	39	43	46	47.4	0.407
	To assess nurses' skills to do								
	dose calculations after absence from work and compare the								
	drug calculation skills of recent								
	nursing students to experienced								
	nurses who have just came back to work from leave which								
	length has been predetermined								
	to be significant enough (e.g. in								
292	maternity leave).	83	37	42	47	47	29	47.4	0.401
292	To conduct a study assessing	83	3/	42	4/	4/	29	47.4	0.401
	prescribing of non-approved								
	medication and off-label use;								
	and to investigate methods to reduce.								
293	reduce.	61	57	45	41	40	40	47.4	0.401
	To develop Shared Care								
	Guidelines for selected								
	medicines, to promote safe continuity of care in the								
	community.								
294	•	58	47	29	47	45	55	46.9	0.370
	To assess in institutional level the obstacles and facilitators of								
	adverse drug event reporting to								
	increase the reporting								
295		85	44	36	50	34	30	46.7	0.457
	To identify the enablers and barriers to the routine clinical								
	recognition, diagnosis and								
	recording of serious								
201	medication-related harm.			10			22	46.6	0.252
296		67	45	48	45	44	32	46.6	0.352

	T 1 1	T T				1	1	ı	1
	To assess through an								
	observational study how								
	adverse drug events happen and								
	implement interventions to								
297	prevent them from occurring.	F.(	T.4	20	F.4	F.4	20	46.5	0.475
297	전 1 . · · · · ·	56	54	29	54	54	32	46.5	0.475
	To conduct an intervention								
	study in hospital emergency								
	departments evaluating the								
	effectiveness of strategies (organizational/functional) to								
298	reduce delay and overcrowding.	66	47	32	42	39	50	46.2	0.352
298	To assess the risk of	00	4/	32	42	39	30	40.2	0.332
	polypharmacy for individual								
	patients and develop cost-								
	effective solutions.								
299	checuve solutions.	55	61	31	39	56	34	45.9	0.370
2))	To identify the most frequent	33	01	31	37	30	34	73.7	0.570
	diagnostic errors and								
	implement practices to prevent								
	them.								
300	them.	53	56	39	41	47	39	45.8	0.358
300	To conduct exploratory			3,	11			1010	0.500
	research on how								
	pharmaceutical professionals								
	can adopt medication safety as								
	their principal core societal role.								
301	p	63	41	44	42	41	39	45.1	0.346
	To compare generic marking of		· · ·			·			
	every individual medication and								
	dosage against existing								
	medication in improving								
	medication safety?								
302	,	63	47	40	40	39	41	44.8	0.296
	To assess the occurrence rate,								
	patterns and trends of								
	medication errors in								
	communities across countries.								
303		66	43	31	38	37	53	44.4	0.401

	TT C 1 .: 1				1	l	1		
	To perform an observational study to identify which								
	laboratory tests can early								
	diagnose a medication error.								
304	diagnose a medication error.	45	42	50	39	39	47	43.8	0.352
304	Assessing the benefits on	43	42	30	37	37	47	43.0	0.552
	patient safety and efficacy of								
	marking expiration month and								
	date on tablets.								
305	date on tablets.	63	36	44	45	35	36	43.3	0.370
303	To conduct an analysis on what	0.0	50	- ''	15	33	30	13.3	0.570
	hinders the voluntary reporting								
	of medication errors even when								
	guidelines exist.								
306	0	74	41	28	48	36	32	43.2	0.469
	To perform a qualitative study								
	within the health care								
	workforce focusing on what								
	style of leader health care								
	professionals desire to prevent								
	avoidable medication-related								
	harm?					4.0			0.454
307	m :1 :6 1 1	66	40	47	31	40	33	43.0	0.426
	To identify methods to ensure								
	that each patient is taking the correct medication								
	correct medication								
308		45	50	19	45	55	42	42.8	0.340
300	To assess the role of nurses in	T3	30	17	13	33	72	72.0	0.540
	preventing drug-drug								
	interactions.								
309		66	39	33	43	43	33	42.7	0.432
	To identify through pilot								
	studies ways to prevent								
	inappropriate use and over-								
	prescribing due to financial								
	incentives to physicians.								
310		53	40	48	42	33	40	42.5	0.383
	To conduct a study identifying								
	what measures are required to								
	develop the health care team's								
311	understanding towards the	58	42	36	42	39	38	42.5	0.352
311		38	42	30	42	39	38	42.3	0.332

	Standard Protocol of Medicine Reconciliation.								
	To perform a qualitative study on perceptions of community pharmacists towards the evaluation of knowledge and skills related to safe medication practice.								
312		80	33	29	36	39	32	41.7	0.407
	To conduct a study investigating clinical situations that lie outside the guidelines, is there an increased incidence of unnecessary bridging with heparin or low molecular weight heparin?								
313		57	41	36	55	36	25	41.5	0.426
	To conduct a longitudinal observational study of patient medication non-adherence on health outcomes.								
314		62	42	35	39	31	40	41.5	0.494
315	To assess the benefits and risks of medications affecting the central nervous system, such as antipsychotics, antidepressants, anticonvulsants, benzodiazepines, in patients with complex conditions such as ADHD, substance abuse/misuse, and chronic pain.	52	52	17	33	50	43	41.3	0.438
	To perform qualitative ethnographic research exploring health care staff perspectives on safety and the role they play.								
316	Total they play.	62	38	47	40	26	34	41.2	0.407

	Т				I	I		ı	
	To create recommendations to accurately identify a patient								
	which could be applied to								
	different institutional contexts.								
217	different institutional contexts.	F./	42	25	F.(	4.2	22	41.0	0.240
317	ZT 11 .16 111 1	56	43	25	56	43	23	41.2	0.340
	To identify which elements								
	globally in robust health								
	systems, help to avert								
240	medication related harm.		40	20	20	20	40	44.0	0.405
318	H	57	43	30	38	39	40	41.2	0.407
	To compare the efficacy of								
	generic medication to the								
	original index drug and all other								
	generic forms?							40.0	
319	Pri 1	55	36	31	39	36	47	40.8	0.370
	To create up-to-date								
	recommendations for safe and								
	good prescribing practices.								
320		41	54	20	43	45	36	40.1	0.438
320	To identify ways to ensure that	41	34	20	43	43	30	40.1	0.436
	10 identity ways to ensure that								
	the systemic problems (and failings) of medication safety								
	amongst healthcare professionals will not conflict								
	with the current trend of								
	increasing patient knowledge								
	and awareness.								
321	and awareness.	42	31	42	39	42	43	39.6	0.358
321	To perform a mixed method	42	31	42	39	42	43	39.0	0.338
	study examining the role of								
	pharmacists and non- physicians in enhancing								
	medication safety.								
322	medication safety.	60	43	24	43	33	30	38.6	0.420
322	To conduct a study exploring	00	43	24	43	33	30	36.0	0.420
	implementation methods of								
	drug classification systems in								
	LMIC.								
323	LAVIIC.	53	27	32	44	32	41	38.1	0.333
545		33	41	32	1 44	32	+1	50.1	0.555

	To assess the consequences to								
	the individual's well-being and								
	to their effectiveness when the workplace pursues complete								
	elimination of avoidable harm.								
324	chilination of avoidable natin.	45	42	38	37	39	26	38.0	0.395
	To undertake an examination								
	of health policy analyses in								
	LMIC. Are the measures								
	sufficient?								
325		53	33	27	37	35	40	37.4	0.321
	To develop digital								
	thermometers for use with medicine fridges and freezers.								
	medicine mages and neezers.								
326		63	36	13	58	19	36	37.4	0.438
	To investigate the effect on								
	patient safety if medication is								
	infused through central versus								
227	peripheral veins.		2.6	40	50	40	20	24.5	0.455
327	2T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	55	36	19	50	40	20	36.7	0.475
	To develop clinical guidelines for rarely used drugs and								
	perform audits on use.								
	perform addits on disc.								
328		50	36	44	29	28	29	36.1	0.364
	To analyze and identify the root								
	cause of multidrug resistance in								
	the treatment process to create								
220	more effective interventions.	47	32	21	42	38	34	35.7	0.202
329	To research into producing a	4/	32	21	42	38	34	33./	0.383
	medicines handbook that								
	classifies medication by disease								
	and patient group, that can be								
	applied to different geographic								
	country contexts.								
330		40	31	36	33	31	39	34.9	0.401
	To conduct an experimental								
	study investigating the								
	differences in the length of carriage of resistant bacteria,								
	after exposure to a single course								
331	of antibiotics.	70	29	22	22	24	21	31.3	0.432
	1	1				<u> </u>	·		

	To conduct an exploratory study on the conditions and regulations needed to adopt the prescription to OTC switch.								
332		50	18	29	36	15	34	30.3	0.352
	To investigate the change in the status of the medication to create reliable processes.								
333		25	27	19	27	27	21	24.4	0.352

**Supplementary Table 4:** Final ranks of 333 proposed research questions based on the scores from 10 experts in medication safety who were scoring mainly with a LMIC context in mind, and who represent a subset of the 42 scorers. Specific scores, ranging from 0-100, are presented for each of the 6 priority-setting criteria: answerability, effectiveness, implementability, potential for burden reduction and equitability. Questions are ranked according to their overall research priority scores (RPS), which also has a maximum theoretical range of 0-100%. Average expert agreement, which can theoretically range from 25-100%, is also provided for each question.

RANK						BURDEN			
LMIC	RESEARCH QUESTION	ANSWERABLE	EFFECTIVE	INNOVATIVE	IMPLEMENTABLE	REDUCED	EQUITABLE	RPS	AEA
	To assess and identify the weak								
	links in the medication safety								
	process chain to consolidate the								
	local systems and resolve the								
	occurring difficulties and								
1	differences in practice.	88	100	94	94	94	100	94.8	0.733
	To assess the prevalence, main								
	factors responsible and the								
	effective interventions for								
	preventing severe avoidable								
	medication related patient harm in								
	resource-limited settings through								
2	pilot studies.	94	94	100	89	94	94	94.3	0.750
	To investigate the impact of								
	addressing high alert medications								
	on morbidity and mortality in two								
	pilot sites, one in LMIC and one								
3	HIC.	100	100	88	94	89	89	93.3	0.800
	To identify what national								
	strategies and/or policies for								
	medication safety across high-,								
	middle-, and low-income								
	countries exist. What gaps remain								
	in identifying and implementing								
	these prevention								
4	strategies/policies?	94	100	75	94	100	94	92.7	0.717
	To identify the most effective								
	empowerment methods and tools								
	for patients and their caregivers to								
	speak up when they see the								
	potential for medication-related								
	harm, especially applicable to								
5	patients in LMICs, as often the	89	90	90	95	94	95	92.2	0.833

	most impacted individuals are								
	poorer and less educated.								
	What are the most frequent causes								
	of severe, avoidable medication-								
	related harm in high-, middle-, and								
	low-income countries? If this is								
	not known, what steps need to be								
	taken to build and/or strengthen								
	surveillance systems to identify								
6	medication-related harm?	94	100	75	94	94	94	92.0	0.750
	To identify and create new								
	indicators and metrics for								
	medication safety to measure								
7	better the impact of medication safety work.	93	93	93	93	93	86	91.7	0.583
- '	To assess the reporting and	73	73	7.5	75	73	00	71.7	0.303
	learning of medication error								
	systems at global and regional								
	level and their impact on system								
8	change	94	89	81	94	89	100	91.2	0.750
	To evaluate the prevalence of								
	unnecessary medications and food								
	supplements, drug-drug								
	interactions and drug-disease								
9	interactions among patients who	0.4	100	69	94	94	94	01.1	0.767
9	take multiple medications.  To investigate the correlations	94	100	09	94	94	94	91.1	0.767
	between patient education and								
	engagement with adherence to								
	medication, inappropriate								
	prescriptions and adverse drug								
	events; and to identify which								
	education tools are effective and								
10	sustainable.	94	95	80	100	95	80	90.7	0.850
	To build methodological capacity								
	in low- and medium-income								
	countries (LMIC) with the aim of								
	improving pharmaco- epidemiological research								
11	practices.	89	94	78	89	94	100	90.7	0.767
	P	0,	/ 1	70	0,		100	, 0.1	0.707

	To examine the barriers to								
	medication reporting amongst								
	health care professionals in LMIC								
	and what can be done to								
12	overcome them.	94	95	70	95	95	94	90.6	0.817
	To develop safe self-	, ,						, , , ,	01021
	administration models for patients								
	or care takers with chronic								
	diseases to self-administer their								
1.2	medication in hospital and home	0.4	00	0.2	00	0.4	0.4	00.6	0.747
13	settings.	94	89	83	89	94	94	90.6	0.717
	To assess the impact of increasing								
	the amount of trained human								
	resources to reduce medication								
	errors in low- and middle-income								
14	countries	89	95	80	95	95	89	90.5	0.800
	To identify the most frequent								
	patient-caused medication errors								
	that occur at home and assess								
	what strategies could be								
15	implemented.	94	94	88	89	89	89	90.4	0.700
	To conduct a patient-centred	, ,							01100
	study on the effectiveness of								
	medication counselling on								
	decreasing misuse and identifying								
16		89	89	83	89	94	94	89.8	0.750
10	errors.	89	89	83	89	94	94	89.8	0.750
	To develop and validate a								
	complexity score (c-score) to								
	identify the patients who are at								
	risk of readmission in 30 days due								
	to medication errors which could								
	be used by pharmacists and								
17	physicians	94	94	94	89	89	78	89.8	0.750
	To perform a multi-modal								
	analysis utilising a mixed methods								
	approach assessing human								
	factors, to analyze the most								
	effective medication								
	administration practices to								
18	prevent patient harm.	92	88	79	93	88	100	89.7	0.567
10	prevent patient nami.	72	00	17	73	00	100	07.7	0.507

	To perform a qualitative study on								
	patient's perspective: what is their								
	role in medication management								
	during transitions of care and								
	what do they think it could be?								
	Identify strategies used to engage								
	patients in medication								
	management during transitions of								
	care. What are the barriers and								
	facilitators to these strategies, and								
	to assess the effectiveness of the								
19	identified strategies?	100	94	81	89	89	83	89.4	0.683
	To investigate identification								
	systems (correct patient, correct								
	route) and functional designs of								
	hospitals to facilitate safe								
	administration of medicines to								
	patients with cognitive	0.6			0.4				0.500
20	impairment.	86	93	93	81	88	94	89.0	0.583
	To conduct qualitative research								
	on administrators and other								
	managerial decision-makers								
	addressing accountability on the								
	decisions they make that create								
21	medication-related harm.	93	88	93	88	88	86	89.0	0.600
	To identify strategies to enhance								
	patient communication processes								
	on medication management in								
	hospitals and across transitions of								
22	care.	94	90	89	85	85	90	88.9	0.767
	To investigate medication review	/1	70	07	03	03	70	00.7	0.707
	process, which components are								
	vital during medication review to								
22	ensure appropriate prescribing for	4.00	6.0		20			00.7	0.000
23	patients with multiple morbidities.	100	90	89	90	85	78	88.6	0.800
	To examine global legislation for								
	medication safety, what policies								
	are fundamental for assuring and								
24	improving medication safety?	94	94	69	94	94	88	88.5	0.650
	To identify medications that								
	requires invasive laboratory								
	monitoring (e.g. blood tests,								
	ECG) and validating a standard								
25	recommendation.	94	88	86	88	94	81	88.2	0.650

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	To conduct an observational								
	study to identify critical laboratory								
	tests, which if incorrect, may lead								
	to a higher risk of medication								
26	errors occurring.	94	88	100	81	81	86	88.2	0.617
	To conduct an intervention study								
	enhancing patient involvement								
	with their prescriber, does this								
	empower patients to raise								
27	medication concerns promptly?	85	90	89	90	90	85	88.1	0.750
	To assess how the incidence of								
	harm due to prescribing errors can								
	be reduced by different								
	interventions in low- and middle-								
28	income countries.	89	90	70	95	90	94	88.1	0.767
	To assess cost-effective methods			, , ,	, , ,				
	to keep track of what medicines a								
	patient has taken and is taking,								
	investigate how to record and								
	share patient medication histories								
	across different health								
	infrastructures in order to reduce								
20	medication errors leading to	0.4	0.4	70	0.4	0.4	70	00.0	0.722
29	medication-related patient harm?	94	94	72	94	94	78	88.0	0.733
	To identify the most frequent								
20	diagnostic errors and implement	0.4	400	F./	0.4	0.4	00	00.0	0.722
30	practices to prevent them.	94	100	56	94	94	89	88.0	0.733
	To conduct a study investigating								
	the types of medication-related								
	harm that occur in transitions								
	between hospitals and primary								
31	care settings in LMIC.	94	89	67	94	89	94	88.0	0.717
	To improve medication safety for								
	in-patients, through the								
	application of ergonomics and								
	human factors in the organization								
	of the medications flow: order,								
	distribution, stocking, preparation								
32	and administration.	92	93	83	81	86	93	87.9	0.533
	To create patient knowledge-								
	building tools for medication								
	safety with critical thinking to								
	ensure they are usable for people								
33	with low level of literacy, in a	94	94	89	89	89	72	87.8	0.733
	, ,								

	reliable format and addressing the								
	role of internet as an information								
	source.								
	To assess the nature and frequency of off-label medication								
	use contributing to medication-								
34	related harm.	88	94	63	94	94	94	87.5	0.633
34	To apply modelling techniques on	00	74	0.5	74	74	74	01.3	0.033
	the intervention of specific								
	medication problems in specific								
	regions/countries, to ensure an								
	effective and efficient allocation								
35	of resources.	81	88	100	88	81	88	87.5	0.617
	To investigate how to ensure								
	patient safety for patients utilizing								
	oral home-based chemotherapy								
	administration: maximising								
	patient education and monitoring								
36	systems.	94	88	79	94	78	93	87.5	0.650
	To analyze the organizational and								
	functional health care workforce:								
	what can be better configured,								
	developed, and managed to								
37	promote medication safety?	88	94	78	89	94	81	87.4	0.683
	To identify affordable and								
	effective methods of improving								
	medication literacy among								
38	patients in resource limited	94	100	57	89	90	94	87.4	0.717
38	settings To examine the impact of the	94	100	3/	89	90	94	87.4	0.717
	Essential Medicines List in LMIC,								
	to prevent and address								
	inappropriate polypharmacy at								
39	transitions of care.	89	94	75	89	89	88	87.3	0.717
	To examine errors in	37	71	7.5	0,	3,	30	57.0	U.1.1
	chemotherapy dosage and/or								
	administration, what								
	organisational changes can be								
	implemented to prevent them								
40	from occurring?	94	94	56	94	83	100	87.0	0.667

	To assess how globally data on								
	medication errors and medication								
	related harm is recorded beyond								
	pharmacovigilance and								
	implement a global database								
	which would collect data on								
	medication errors and near misses								
	that especially low- and middle-								
41	income countries could report to.	83	89	94	83	83	89	87.0	0.700
	To determine the prevalence and								
	potential clinical outcomes of								
	medication errors in (1) primary								
	care settings, and (2) hospitals in								
42	low resource countries.	90	95	67	90	90	90	86.9	0.767
	To identify globally applicable list	,,,	,3	07	,,,	70	,,,	00.7	0.707
	of minimum questions health care								
	professionals should ask their								
	patients before dispensing or							0.40	. = . =
43	prescribing medications.	89	83	83	89	83	94	86.9	0.717
	To assess critical points of the								
	medication process for injectable								
	medicines in high-stakes								
	environment, such as ED,								
	anaesthesia, critical care, and								
	develop strategies for								
44	improvement.	94	100	63	94	94	75	86.8	0.733
	To identify the best and most								
	cost-effective ways to transfer								
	medication records in transitions								
45	of care	88	89	83	89	89	83	86.8	0.700
43		00	09	03	09	09	0.3	00.0	0.700
	To conduct a study assessing								
	prescribing of non-approved								
1 .	medication and off-label use; and								
46	to investigate methods to reduce.	89	94	69	81	94	94	86.7	0.617
	To conduct a pilot study of the								
	implementation of various								
	strategies to reduce the use of								
	potentially dangerous medications								
47	amongst elderly patients.	94	94	75	83	83	89	86.6	0.717
	To evaluate the reduction in								
	medication errors at a local level								
	after introducing a program which								
	aims to increase the role of								
48	patients in medication safety,	83	94	75	89	94	83	86.6	0.700
40	patients in medication safety,	83	94	/3	89	94	63	00.0	0.700

88 88 86 5	0.617
00 00 00.5	0.017
88 88 81 865	0.617
00 00 01 00.3	0.017
90 90 04 961	0.650
69 69 94 60.1	0.030
00 00 07 (	0.750
90 90 90 85.6	0.750
88 89 88 85.6	0.683
90 85 80 85.6	0.750
90 90 95 85.6	0.767

			1			1	1		
	To examine the most frequent								
	cause of hospital admissions in								
	polypharmacy patients. What								
	strategies can be implemented to								
56	reduce the risk?	89	83	81	83	89	88	85.5	0.667
	To conduct a study on developing								
	valid and reliable measures of								
57	patient engagement.	90	90	63	90	90	90	85.4	0.733
31	To conduct a study across	70	70	03	70	70	70	03.1	0.733
	institutions identifying system-								
	level barriers to implementation								
	of evidence-based health literacy								
58	practices.	88	88	88	78	83	89	85.4	0.600
	To develop a pilot								
	implementation tool kit to								
	improve medical and health care								
	safety processes, applicable for								
	different contexts and countries								
59	worldwide.	88	88	75	88	88	88	85.4	0.583
	To identify and evaluate potential								
	strategies into how parents and								
	caregivers can be effectively								
	supported with providing high-								
60	risk medications to children.	83	90	83	85	85	85	85.3	0.750
- 00	To develop a predictive algorithm	03	70	03	05	03	03	03.3	0.730
	to identify individuals who are at								
	risk of serious medication-related	400	0.2	0.4	0.2	0.2	47	05.0	0.402
61	harm.	100	83	94	83	83	67	85.2	0.683
	To assess the occurrence rate,								
	patterns and trends of medication								
	errors in communities across								
62	countries.	94	89	56	89	89	94	85.2	0.667
	To assess the magnitude of severe								
	drug interactions due to poly-								
63	pharmacy in elderly.	89	94	61	89	89	89	85.2	0.683
	To evaluate the role of service								
	design and technology in								
	improving safety at transitions of								
64	care	86	88	88	88	88	75	85.1	0.567
07	To assess the prevalence of	- 00	30	30	00	30	13	03.1	0.307
	medication errors among patients								
	0.1								
	who self-administer their								
	medication in home setting and	~ <del>-</del>		o=				05.0	0.000
65	assess different methods of	85	85	85	85	85	85	85.0	0.800

			T		1	ī	1	ı	
	patient education as an								'
	intervention.								Ĭ '
	To design supporting tools for								
	health care professionals which								Ĭ
	help to prescribe and dispense								Ĭ
	appropriate medications for old								Ĭ
66		88	88	71	81	94	88	84.8	0.583
00	people	88	00	/ 1	81	94	88	84.8	0.585
	To assess the global prevalence,								
	burden and geographical variation								Ï
	of serious medication related								Ï
	harm through a systematic								Ï
67	literature review.	100	89	75	83	83	78	84.7	0.717
	To undertake an examination of								
	health policy analyses in LMIC,								
68	are the measures sufficient?	100	83	69	89	83	83	84.6	0.633
	To identify the special								
	considerations of medication								Ï
	safety in emergencies and create								Ï
	key policy recommendations on								Ï
	reduction of medication-related								Ï
	harm within the overall cycle of								Ĭ
69	crises management.	86	88	71	81	94	88	84.5	0.550
- 0,	To identify the enablers and			- 1	0.1	71	00	01.0	0.000
	barriers to the routine clinical								
	recognition, diagnosis and								
	recording of serious medication-								Ï
70	related harm	100	88	58	88	88	86	84.4	0.567
70		100	00	36	00	00	00	04.4	0.307
	To conduct an analysis on what								
	hinders the voluntary reporting of								
	medication errors even when								l
71	guidelines exist.	81	88	81	88	88	81	84.4	0.600
	To perform qualitative								1
	ethnographic research exploring								1
	health care staff perspectives on								
72	safety and the role they play.	100	81	81	88	81	75	84.4	0.567
	To evaluate medication								1
	discrepancies, communication,								1
	documentation and the role of								1
	medication reconciliation across								1
	care transitions in preventing								1
73	medication-related patient harm	86	89	67	89	94	81	84.3	0.667
	r			· · ·					

	To evaluate whether expert								
	patient engagement in health								
	systems can reduce severe,								
	avoidable medication-related								
74	patient harm.	83	94	94	83	78	72	84.3	0.667
	To identify collaborative team								
	practices utilised by health care								
	professionals to ensure								
	appropriate drug monitoring and								
75	patient involvement?	88	89	69	83	83	94	84.3	0.617
	To examine how the role of health								
	care professionals can be								
	strengthened to ensure								
	appropriate polypharmacy in the								
	elderly.	72	83	72	94	89	94	84.1	0.683
70	To develop and test a core set of	12	0.5	12	74	37	)4	07.1	0.005
	medication safety indicators,						1		
	applicable for different contexts								
	and countries worldwide. The set								
	of core indicators may differ								
	according to income level of								
77		86	88	81	81	81	88	84.1	0.550
//	country.	80	88	81	81	81	88	84.1	0.550
	To identify methods to reduce								
	inappropriate prescribing of								
	antibiotics, and to develop		0.0			2.0			. =
78	strategies to minimize use.	88	89	56	94	89	89	84.0	0.700
	To perform an observational								
	multisite study (across tertiary,								
	long-term care, and primary care								
	facilities) to assess how harm from								
	drug interactions (including								
	traditional and complementary								
79	medicines) are averted.	93	81	81	75	88	86	83.9	0.583
	To evaluate which strategies work								
	best to ensure the accuracy of a								
	patients` medication management						1		
80	across the continuum of care.	81	89	72	89	89	83	83.9	0.667
	To investigate strategies to			<u> </u>			1		
	enhance patient engagement and						1		
	better use patient information, to								
81	countries.	75	83	83	89	83	89	83.8	0.617
	patients' medication management across the continuum of care.  To investigate strategies to enhance patient engagement and better use patient information, to be applicable and achievable for patients across all income-level								

	т 1		1			1			1
	To conduct an assessment on								
	compliance and the reduced risk								
	of adverse drug events in patients								
	taking novel oral anticoagulants in								
82	lieu of warfarin.	100	81	71	100	79	71	83.8	0.583
	To conduct exploratory research								
	on how pharmaceutical								
	professionals can adopt								
	medication safety as their								
83	principal core societal role.	81	83	83	83	83	88	83.7	0.683
	To determine the extent of harm								
	contributed by sub-standard,								
	spurious, falsified and counterfeit								
	medicines (SSFFC) to patient								
	safety. How to reduce the								
	prevalence and incidence of								
	SSFFC medicines in LMIC for								
84	better health outcomes?	69	88	63	94	94	94	83.3	0.600
	To investigate cost-effective,								
	multidisciplinary practices for								
	optimising patient								
	pharmacotherapy, especially for								
	patients with chronic conditions								
85	and multi-morbidity.	83	90	67	90	90	80	83.3	0.767
	To evaluate the impact of								
	medication reconciliation in								
	preventing medication errors in								
86	low-income countries.	100	85	55	75	85	100	83.3	0.767
	To assess in institutional level the								
	obstacles and facilitators of								
	adverse drug event reporting to								
87	increase the reporting	89	83	61	94	83	89	83.3	0.633
	To investigate how medication-								
	related harm can be measured in								
	feasible way, which requires								
	minimal resources, that can be								
	adapted to existing practices and								
88	can be measured ongoing basis.	75	88	81	88	81	88	83.3	0.567
	To design a patient pathway based	, ,	30						
	monitoring framework and								
	supporting metrics for evaluation								
89		80	90	90	70	90	80	83.3	0.350
89		80	90	90	70	90	80	83.3	0.350

	To investigate what are the								
	specific barriers to address								
	appropriate polypharmacy								
	through interprofessional working								
	in low-, middle- and high-income								
90	countries	88	88	56	88	88	94	83.3	0.583
	To create instructions for								
	countries and institutions to help								
	them to set up a good								
	interdisciplinary								
	concertation/coordination to								
91	avoid drug related errors/events.	75	83	75	89	83	94	83.2	0.600
	To identify the best and most								
	practical ways to measure								
	preventable medication errors in								
	real time and in patient-centered								
92	manner?	86	94	56	88	88	88	83.0	0.567
	To examine errors related to look-								
	alike, sound-alike medications that								
	occur at the point of care and								
93	identify methods to prevent them.	93	88	50	88	88	93	83.0	0.550
	To identify a set of best trigger								
	tools to identify a declared or								
	potential adverse effect with high								
94	risk medications.	86	88	93	79	79	75	83.0	0.483
	To identify effective								
	communication strategies to								
	ensure medication safety in								
	transitions of care (incl.								
	Appropriate medications and								
95	education on those medicines)?	94	88	63	83	88	83	83.0	0.583
	To design and implement an								
	information campaign aimed at								
	patients to increase patient								
	empowerment in reducing								
	medication-related harm by								
	addressing: transparency and								
	completeness of information to								
	be shared with healthcare								
	providers, storage of medication,								
	medication adherence, medication								
	shifts, possible adverse effects and								
96	adverse drug reaction reporting.	80	85	75	90	90	78	83.0	0.750

	To identify cost-effective,					l			
	sustainable methods for								
	community-based promotion of								
0.7		0.2	07	70	70	0.0	07	02.0	0.402
97	medication safety interventions.	83	86	79	79	86	86	82.9	0.483
	To examine incidents of product								
	contamination and drug								
	mislabeling. What techniques can								
	be utilised to improve								
98	identification?	79	94	69	88	88	81	82.9	0.550
	To assess the lack of								
	communication in transitions of								
	care (i.e. at hospital discharge) by								
	conducting an observational and								
99	interventional study?	100	83	56	89	83	83	82.4	0.700
	To develop and validate a								
	complexity score (c-score) for								
	patients in need for de-prescribing								
	which would help the physicians								
	or pharmacists identify the high-								
	risk patients who might develop								
100	drug-drug interactions.	89	89	89	78	78	72	82.4	0.650
100	To identify methods to ensure	69	69	0.7	70	7.0	12	04.4	0.030
4.04	that each patient is taking the	00	0.4	F.2	0.4	70	0.2	00.4	0.402
101	correct medication	89	94	56	94	78	83	82.4	0.683
	To perform a qualitative study								
	investigating what are the								
	perceived causes of unsafe								
102	medication practices.	94	89	56	89	83	83	82.4	0.650
	To explore ways to increase multi-								
	professional team work and build								
	respectful environment where								
	teams recognize and respect the								
	skills of each member in ensuring								
103	medication safety	72	83	89	83	83	83	82.4	0.683
	To identify best strategies to								
	inform the public that taking								
	multiple medications can carry								
104	risks.	89	83	61	89	83	89	82.4	0.667
	To investigate the role of health		30			,,,			
	communication strategies to								
	support patients with limited								
	language proficiency, health								
	literacy and education in taking								
105	medications safely.	79	88	71	81	88	88	82.3	0.517
103	medicadons sately.	17	00	/ 1	01	00	00	04.5	0.51/

					1				
	To assess how health care								
	professionals can prevent drug								
	interactions (drug-drug, drug-								
	disease) in a simple and applicable								
106	way during daily working	88	83	63	94	78	88	82.2	0.650
100	To evaluate if there is a difference	00	0.0			,,,	00	02.2	0.000
	in factors which contribute to								
	medication errors depending on								
	the level of health care (primary,								
	secondary, tertiary) and health								
107	care system	81	83	72	89	83	83	82.1	0.650
	To evaluate forms of optimizing								
	drug prescribing in the elderly in								
	collaboration of pharmacists and								
108	GPs.	89	88	56	89	83	88	81.9	0.650
100	To conduct a study identifying	07	00	30	0,	03	00	01.7	0.050
	what measures are required to								
	develop the health care team's								
	understanding towards the								
	Standard Protocol of Medicine								
109	Reconciliation.	88	83	63	88	83	88	81.9	0.567
	To investigate methods of								
	strengthening the review system								
	of drug names, to prevent the								
	confusion of look-alike, sound-								
110	alike medications.	93	86	50	88	88	88	81.8	0.533
110	To investigate what areas of	73		30	00	00	00	01.0	0.555
	medication safety patients can								
	best empower patients as								
	guardians of safety for their own								
	medication. What strategies can								
	be utilized to promote this role								
111	and how can it be implemented?	81	83	72	83	83	88	81.8	0.567
	To evaluate the role of human								
	factors, ergonomics and error-								
	proof designing of health care								
	facilities as a medication safety								
112	strategy	81	83	81	83	83	78	81.7	0.583
112	To assess which aspects of	01	0.5	01	0.5	63	70	01./	0.505
	organizational culture and/or								
140	context can help to prevent	=-						04.7	0.447
113	medication-related patient harm	79	83	69	83	83	93	81.7	0.617
	To identify which elements								
114	globally in robust health systems,	81	88	71	88	88	75	81.7	0.533

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	help to avert medication related								
	harm								
	To collect evidence on the impact								
	of patient empowerment,								
	engagement and patient charters								
	on reducing severe, avoidable								
115	medication related harm.	85	85	75	95	75	75	81.7	0.700
113	To perform a study investigating	03	03	7.5	73	7.5	13	01.7	0.700
	the underlying causes, extent, and								
	the consequences of a lack of								
	communication between different								
	healthcare professionals and								
	between healthcare professionals								
116	and their patients.	79	88	63	88	88	86	81.5	0.550
	To identify which remediable								
	human factors are the most								
	important to provide safe								
	prescription and administration of								
117	medicines?	86	88	50	93	88	86	81.5	0.533
11/	To measure which is the most	00	00	30	7.5	00	00	61.3	0.555
	sensitive moment, weekday and								
	time of the day for occurrence of								
	medication errors: ordering,								
	prescribing, preparing, dispensing,								
118	administering or monitoring?	94	83	67	83	83	78	81.5	0.633
	To investigate the effects of								
	different interventions								
	before/during/after the hospital								
	discharge to ensure patients know								
	and understand the information								
110		0.4	0.2	F./	0.2	0.2	00	04.5	0.647
119	on their medication	94	83	56	83	83	89	81.5	0.617
	To perform a study on nurses								
	administering medicines in long-								
	term care settings, what is the								[
	prevalence and root cause of								
	medication administration								
120	adverse events?	93	88	50	88	88	83	81.4	0.550
	To identify the impact of the								
	availability of the Children's								
	Medicines List on the unmet								
	needs of Children's Medicines in								
121	Sub-Saharan Africa.	86	81	71	86	79	86	81.4	0.483
121	эпо-запаган липса.	80	01	/ 1	80	/9	60	01.4	0.403

	T		1		1	1	1		
	To raise awareness amongst								
	Ministries of Health and								
	healthcare leaders in developing								
	countries to highlight the								
	importance of medication safety								
122	in primary care.	88	83	61	89	83	83	81.3	0.650
	To identify through pilot studies								
	best practices on how to make								
	health care facilities and health								
	care providers accept the existing								
	essential drug lists; and accept the								
	use of Standard Treatment								
	Guidelines in countries where								
	they exist and create them where								
	they do not exist to ensure safe,								
123	rational use of medicines.	86	81	79	81	75	86	81.3	0.550
	To study the feasibility, impact			,,				0 - 10	
	and scalability of decision support								
	tools to assist clinicians in safe								
124	medication prescription practice	94	81	75	75	88	75	81.3	0.600
	To conduct a pilot intervention to							0 - 10	0.000
	develop a sharing platform among								
	hospitals for describing errors and								
125	solutions.	88	78	83	83	78	78	81.3	0.617
	To conduct exploratory research							0 - 10	0.021
	expanding the role of nurses to								
	take on leadership roles in								
	preventing medication-related								
126	patient harm.	94	88	56	88	88	75	81.3	0.583
120	What is the impact of current	71	00	30	00	00	7.5	01.5	0.505
	prescribing and medication use								
	patterns during pregnancy on								
127	adverse birth outcomes in LMIC?	88	83	71	89	69	88	81.2	0.650
127	To create guidelines for safer use	00	00	7 1	0,7	0,	00	01.2	0.030
	of paracetamol (acetaminophen)								
	in children to address safe								
	prescribing, safe and clear dosing								
	schedule and safe dispensing and								
128	administration.	100	89	43	89	72	94	81.1	0.683
120	To conduct exploratory research	100	37	т.)	07	12	74	01.1	0.003
	into how potential medication								
	safety issues can be predicted in a								
	timely manner, with the use of								
129	algorithms based on clinical data.	79	79	100	79	79	71	81.0	0.517
147	aigoritimis based on chineal data.	17	1,7	100	17	17	/ 1	01.0	0.51/

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	To conduct a multisite study								
	evaluating interventions that have								
	been successful in optimising								
	medication error reporting and								
130	learning systems.	94	81	71	72	83	83	80.9	0.567
	To identify measures which would								
	enable safer medication-taking								
131	practices at home in LMIC.	90	85	75	80	75	80	80.8	0.700
	To perform a mixed method study								
	examining the role of pharmacists								
	and non-physicians in enhancing								
132	medication safety.	93	86	57	81	81	86	80.7	0.517
132	To investigate best practices to	,3	00	31	01	01	00	00.7	0.517
	prevent adverse drug reactions for								
	people with previous medication-								
	related allergic reactions and								
133	hypersensitivities.	88	83	67	83	88	75	80.6	0.633
133	To assess how to design the best	00	6.5	07	63	00	7.5	00.0	0.033
	environment for learning from								
124		0.1	0.1	0.0	70	78	0.2	00.6	0.550
134	medication-related incidents	81	81	88	72	/8	83	80.6	0.550
	To commence a policy research								
	on improving the impact of post-								
	market surveillance systems to								
	optimize patient care, drug								
	effectiveness, and market								
	corrections (drug recalls, etc.),								
	including an assessment how the								
	post-market surveillance systems								
	differ across all countries and how								
135	this affects to medication safety.	83	83	67	79	86	86	80.6	0.433
	To conduct an observational								
	study in hospitals that								
	systematically conducts								
	medication reconciliation at								
	discharge. How many adverse								
	medication-related events, re-								
	hospitalizations and deaths are								
136	avoided?	100	85	60	80	80	78	80.5	0.733
	To identify which human factors								
	are either involved in or								
	contribute to medication-related								
137	patient harm	88	83	61	83	83	83	80.3	0.650
	r			01		00	- 00	~	0.000

					1				
	To identify indicators of								
	medication safety that have been								
	utilised in low-resource settings.								
	What is known about their								
	validity, reliability, and feasibility,								
	and what potential indicators								
138	should be introduced?	88	78	67	83	83	83	80.3	0.583
130	To evaluate the economic impact	00	70	07	83	03	0.5	00.5	0.565
	of interventions targeted to								
	reducing medication-related								
139	adverse events.	88	83	69	78	83	81	80.3	0.617
	To design technology assisted								
	medication administration to								
	reduce medication errors e.g. two-								
140	tier level identification.	83	78	72	83	83	81	80.2	0.617
	To develop and evaluate a pilot								
	patient medication recording								
	system based on a cloud platform,								
	accessible to all health care								
	providers in prescribing and								
141	reviewing a patient's medication.	81	89	83	72	89	67	80.2	0.633
141	U 1	01	09	0.3	12	09	07	00.2	0.033
	To establish the scale and burden								
	of inappropriate non-evidence-								
	based use of antipsychotic and								
142	antidepressants.	81	88	81	81	81	69	80.2	0.533
	To investigate how to increase								
	public reporting of health care								
	associated infections and increase								
	rewarding/giving incentives to								
	healthcare facilities which meet								
143	quality and safety standards	92	79	64	93	79	75	80.2	0.450
	To identify and develop globally								
	applicable pictograms for selected								
	high-risk medications which								
	would convey the critically								
144	important safety information	86	81	64	81	81	86	79.9	0.500
144	To evaluate the effectiveness of	00	01	04	01	01	00	17.7	0.500
	the Medication Without Harm								
	Challenge by using Interrupted								
	Time series to assess the								
	implemented policies to prevent								
	medication errors by measuring								
	the situation prior and after (e.g. 6								
145	months before and after) the	78	83	63	89	83	83	79.9	0.583

	introduction of the								
	implementation of the policy								
	To conduct a multisite workplace								
	analysis to determine required								
	staffing levels to achieve minimal								
146	medication errors.	93	86	64	86	79	71	79.8	0.467
	To identify through systematic								
	literature review best medication								
	practices which could be								
	implemented (modified to country context) in other								
147	country context) in other countries?	94	83	67	78	78	78	79.6	0.633
1,7	To investigate the reliability of	71		01	70	70	70	72.0	0.000
	medication safety indicators and								
148	tools in integrated care settings.	88	81	64	81	81	81	79.5	0.567
	To assess the influence of social								
	determinants of health on								
4.40	adherence to medicines among	0.5	===		400	7.5	0.0	<b>5</b> 0.4	0.750
149	patients with chronic diseases.	95	72	44	100	75	90	79.4	0.750
	To identify the challenges involving the patient and their								
	caregivers in the campaign to								
	improve medication safety, and								
	what resources and support is								
150	required?	94	81	81	69	75	75	79.2	0.550
	To investigate which quality								
	improvement factors also reduce								
151	medication-related harm.	75	83	67	75	75	100	79.2	0.450
	To conduct epidemiology studies								
	of adverse drug events and								
	medical errors in non-academic tertiary settings such as nursing								
	homes, cancer centres, and								
152	community hospitals.	94	81	69	75	75	81	79.2	0.567
	To identify the reliable easily					, ,			
	measured indicators to assess								
	medication safety both at facility								
153	level and also at national level	86	81	64	88	81	75	79.2	0.483
45.	To compare the efficacy of		a.					<b>50.2</b>	0.550
154	generic medication to the original	100	81	44	88	81	81	79.2	0.550

	index drug and all other generic								
	forms?								
	To evaluate the use of mobile								
	technology for patients in								
	supporting safer medicines								
	managements, including								
	monitoring of health conditions,								
455	education and prompting	00	22	0.4	0.2	0.2		<b>50.0</b>	0.550
155	adherence?	88	83	81	83	83	56	79.2	0.550
	To evaluate which tools can be								
	most useful to measure								
	medication safety and determine								
150	the impact of measures that are	04	0.2	7.5	70	70	70	70.0	0.57
156	implemented over time	81	83	75	78	78	78	78.8	0.567
	To assess the prevalence of drug- drug interactions where one of the								
	interacting medicines is								
	prescription medicine and the								
	other is non-prescription								
157	medicine.	89	78	79	83	75	69	78.7	0.550
137	To test the use of a patient	07	70	17	0.5	13	07	70.7	0.550
	decision support system in order								
	to ensure patient safety within								
	self-management of medications								
	in chronic conditions, with the								
	remote support of health								
	professionals and group of peers								
158	(patient experts)	81	81	63	88	81	79	78.7	0.483
	To perform a study evaluating the								
	strategies to improve patient								
	monitoring of adverse effects of								
159	medication.	83	89	56	83	83	78	78.7	0.583
	To assess through a pilot study if								
	each time patient interacts with								
	health care system the health care								
	professionals would be obligated								
	to look at least the past three visits								
	back would reduce medication-								
	related harm and help health care								
	professionals to recognize								
160	medication-related harm	83	78	89	72	78	72	78.7	0.633

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	100	78	50	83	78	83	78.7	0.650
implementing a tool in detecting								
medication errors and harm in								
primary care?	78	89	44	89	89	83	78.6	0.633
To conduct a pilot study on								
elderly patients in a long-term care								
	86	86	50	86	86	79	78.6	0.450
	O.F.	90	<b>(</b> 0	00	70	(0	70.6	0.692
	83	89	69	90	70	09	/8.0	0.683
(								
	92	75	75	79	71	79	78.5	0.367
about their medications.	90	78	63	70	80	90	78.4	0.600
effective and cost-effective								
interventions carried out at the								
individual and community-level,								
antimicrobial use and reduce								
antimicrobial resistance.	81	78	67	83	78	83	78.4	0.633
	To conduct a pilot study on elderly patients in a long-term care facility/nursing home, do routine medication reviews reduce the overuse of medications?  To perform a mixed-methods study examining the role patients and families play in contributing to medication errors due to non-adherence or over-adherence, and how much of this is due to issues with regards to access or health literacy? What evidence-based interventions exist?  To assess the effectiveness of annual meetings with community pharmacist, to discuss which medicines (incl. OTC medications) the patient is taking and how and when they are taking them, can reduce medication-related harm among patients who take multiple medications.  To identify globally applicable list of questions patients should know about their medications.  To investigate what are the most effective and cost-effective interventions carried out at the individual and community-level, to help reduce inappropriate	perceptions of community pharmacists towards the evaluation of knowledge and skills related to safe medication practice.  To assess the effectiveness of implementing a tool in detecting medication errors and harm in primary care?  To conduct a pilot study on elderly patients in a long-term care facility/nursing home, do routine medication reviews reduce the overuse of medications?  To perform a mixed-methods study examining the role patients and families play in contributing to medication errors due to non-adherence or over-adherence, and how much of this is due to issues with regards to access or health literacy? What evidence-based interventions exist?  To assess the effectiveness of annual meetings with community pharmacist, to discuss which medicines (incl. 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What evidence-based interventions exist?  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	To assess the health outcomes in								
	patients with chronic conditions								
	who receive deliberate								
	sensitization about possible side								
	effects, adverse effects,								
	interactions during their visits to								
	the clinic against another group								
	which receives the normal (no								
168		83	83	69	78	83	72	78.1	0.633
108	intervention) counselling.	63	83	09	/8	83	12	/8.1	0.033
	To design a patient pathway based								
	monitoring framework and								
	supporting metrics for evaluation								
	of safe prescribing and								
169	administration of medicines.	67	75	83	69	100	75	78.1	0.467
	To investigate the problem of fake								
	medicines and their international								
	trade from surveillance,								
	prevention, and interdiction								
	standpoint to get a better and								
	more resolute idea of the true								
	scope and prevalence of								
	substandard and falsified								
170	medicines.	56	88	75	88	88	75	78.1	0.517
170	To develop standard protocols for	30		7.5	00	- 00	7.5	70.1	0.517
	the preparation, administration,								
	monitoring of insulin in acute care								
171		0.4	75	50	81	75	94	70.4	0.550
171	internationally.	94	/5	50	81	/5	94	78.1	0.550
	To identify best strategies to avoid								
	inappropriate self-medication								
172	with antibiotics	88	88	44	88	75	88	78.1	0.567
	To perform a cross-sectional								
	study across primary care facilities								
	assessing medication safety and								
	exploring strategies in which it can								
173	be improved.	81	81	56	88	81	81	78.1	0.567
	To identify through literature								
	review most effective								
	interventions for medication								
	safety and evaluate and measure								
	their effectiveness through								
	piloting sites using pre-set								
174	indicators.	94	81	63	81	75	75	78.1	0.533
1/7	mancator.	7=	01	0.5	01	13	13	70.1	0.555

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	To increase awareness among								
	regulators and pharmaceutical								
	industry how look-alike								
	containers, poor visibility of key								
	information (e.g. Active								
	pharmaceutical ingredient) can								
	cause medication errors and assess								
	if dispensing only the necessary								
	dose (breaking the fixed package								
	when needed) would increase								
175	rational use of medicines.	71	79	75	79	79	86	78.0	0.400
	To assess the role of regulators,								
	manufacturers and the								
	pharmaceutical industry in								
176	reducing medication related harm.	75	86	64	86	79	79	78.0	0.467
	To create a cost-effectiveness								
	study to identify mechanisms that								
	support safe prescribing for								
177	elderly, poly-medicated patients.	79	75	69	75	88	81	77.7	0.467
	To develop clinical guidelines for								
	rarely used drugs and perform								
178	audits on use.	94	69	69	88	69	79	77.7	0.500
	To test through pilot sites which								
	are most fruitful and powerful								
	combinations of practices,								
	processes, and tools to prevent								
	avoidable medication-related								
179	harm.	78	78	75	83	78	72	77.3	0.633
117	To form and divulge basic notions	, ,	, 0	7.0		, 0	, _	7710	0.000
	about antibiotics, their uses,								
	operations and sequential effects								
	for patients to understand in what								
	moments it is correct to prescribe								
	them and the importance of								
	following the guidelines								
180	recommended by their physician.	90	75	50	85	80	83	77.2	0.633
100	To assess the effectiveness of	70	7.3	30		80	65	11.4	0.055
	different implementation								
	strategies for sustaining and/or								
	scaling up evidence-based								
	interventions to reduce, eliminate								
	or ameliorate medication-related								
101		81	75	81	75	75	75	77 1	0.467
181	patient harm?	81	/5	81	/5	/ 5	75	77.1	0.467

	To conduct and evaluate the								
	impact of medication								
	reconciliation practices during								
	transitions of care (e.g. post-								
182	hospital discharge).	85	85	60	80	80	72	77.0	0.700
	To develop and evaluate a system								
	that monitors for the								
	incompatibility of chemotherapy								
	drugs with medications prescribed								
	for other comorbidities, to reduce								
183	unwanted synergies.	83	86	58	83	79	71	76.8	0.400
103	To perform an observational	63	00	30	0.5	17	/ 1	70.0	0.400
	study to identify which laboratory								
184	tests can early diagnose a medication error.	75	67	100	(1	71	83	74.0	0.467
184	To identify and evaluate the	/5	0 /	100	64	/1	83	76.8	0.407
	primary national systems and/or								
	strategies in place for identifying								
	the burden and scope of								
	medication-related harm in high-,								
	middle-, and low-income								
185	countries?	79	81	50	81	81	88	76.6	0.550
	To identify the role of different								
	actors in health care in reducing								
	global incidence of medication								
186	related adverse events.	78	89	50	83	78	81	76.5	0.600
	To investigate how technologies								
	could be appropriately								
	implemented and scaled in LMICs								
	to better ensure that drugs are not								
	spoiled, diverted, counterfeited,								
	and that supply chain								
	performance is optimized to avoid								
187	stock outs and drug shortages.	71	81	63	81	81	81	76.5	0.500
	To investigate the impact,								
	feasibility and scalability of patient								
	education techniques to promote								
	reconciliation and adherence								
	delivered in a variety of ways								
	including: pharmacy, clinic,								
	telephone, smart phone								
188	application.	89	80	75	75	80	60	76.5	0.650

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	To perform a cost-effective								
	analysis on interventions to								
	reduce preventable medication-								
	related hospitalizations, and								
	medication-related falls and								
189	injuries in older adults.	83	88	50	83	72	81	76.3	0.600
107	To identify weak points in the		00	30	03	72	01	70.5	0.000
	design of medication and/or its								
	packaging and develop changes								
100	which will help reduce mistakes in	70	70	<b>5</b> 0	04	7.5	0.6	74.0	0.402
190	medication administration.	79	79	58	81	75	86	76.2	0.483
	To investigate what percentage of								
	medication errors are due to								
	similarities in medication								
191	appearance.	89	75	67	85	75	67	76.2	0.600
	To assess the medication safety								
	practices in long-term care								
192	facilities	100	79	43	79	79	79	76.2	0.517
	To conduct a study examining the								
	role of individual health								
	professionals and inter-								
	professional collaboration, who is								
	accountable for ensuring								
193	medication safety?	79	75	69	81	75	79	76.2	0.467
	To investigate the role of								
	pharmacist's intervention in								
	reducing medication errors								
	through prospective cohort study.								
	In which ways can the role of								
	pharmacists be expanded to be								
194	actively involved in the medication prescribing process.	80	88	56	83	78	72	76.2	0.550
174	To identify the challenges and	00	00	30	03	/0	12	/0.2	0.550
	opportunities for health care								
	professionals and the health care								
405	system to improve medication	0.4	=0	F /	0.2	70	0.4	74.0	0.545
195	safety in transitions of care.	81	78	56	83	78	81	76.2	0.567
	To design a uniform global								
	standard of labelling for OTC								
	medications and create								
	recommendations for good								
	labelling practice, including use of								
196	simple language.	88	81	56	78	67	88	76.2	0.500

									,
	How to adapt patient safety								
	indicators obtained from routinely								
	collected data to different								
	contexts and countries								
197	worldwide?	69	81	69	75	81	81	76.0	0.467
	To identify gaps in deprescribing								
	potentially inappropriate								
198	medicines in older people.	88	81	50	81	81	75	76.0	0.467
170	To conduct intervention study	00	01	30	01	01	13	70.0	0.407
	which utilizes mixed methods								
	approach to transform a								
	unit/hospital with high								
	prevalence of medication errors to								
199	a low prevalence.	69	81	63	81	88	75	76.0	0.483
	To investigate the prevalence of								
	adverse drug events and								
	medication errors contributed by								
	extemporaneous compounding								
	medications for children, due to								
	limited access to safe and effective								
200	medicines.	75	80	56	80	80	85	75.9	0.700
	To conduct a qualitative study								
	seeking to examine how to								
	enhance patient engagement								
	amongst patients and their family,								
201	to improve medication safety.	89	72	67	78	78	72	75.9	0.583
201	To create up-to-date	07	12	07	70	70	12	13.7	0.505
	recommendations for safe and								
202	good prescribing practices.	94	78	50	83	78	72	75.9	0.567
202	To identify methods of	94	/ 0	30	0.5	/0	12	13.9	0.307
	monitoring patient medication								
	adherence and develop evidence-								
	based practices to improve								
	adherence, reduce patient harm								
203	and improve outcomes.	100	83	44	83	78	67	75.8	0.600
	To assess how innovative models								
	of pharmaceutical care and								
	diffusion of technology can be								
	used to reduce medication related								
204	harm.	72	81	57	78	78	88	75.6	0.483

	To assess how in resource poor								
	countries/regions, evidence-								
	based medication management								
	systems which cover from								
	prescribing to administering drugs								
	can be implemented, and what								
	organizational and cultural								
	requirements are needed to								
205	implement such systems?	71	79	79	69	75	81	75.6	0.500
	To conduct a multi-professional								
	study implementing different								
	interventions to investigate the								
	effect on reducing medication								
206	errors.	75	79	64	79	79	79	75.6	0.383
	To conduct a study on enhancing								
	the role of pharmacists in								
	multidisciplinary collaboration								
	with prescribers. What are the								
	attitudes of pharmacists and								
	prescribers, how will								
207	collaboration best be utilised?	88	79	50	81	75	81	75.6	0.500
	To perform a study on the role of								
	pharmacists in elderly patients								
	transitions of care. What is their								
	role, how can it be improved and								
208	what is the impact?	81	80	55	80	85	72	75.6	0.600
	To critically evaluate procedures								
	in the transfer of medication								
	process to ensure safe inter-unit								
209	transfer.	83	78	61	78	78	75	75.5	0.583
	To examine each step of the								
	medication process, what is the								
	impact of interruptions in								
	different stages and what								
	implements can be made for								
210	improvement?	72	78	75	78	78	72	75.5	0.600
	To conduct a study investigating	,_				, ,	, _		
	the impact of procurement based								
	on clinical efficacy and safety, with								
	the use of longitudinal data								
	analytics thereby optimising								
211	benefits and minimising harm.	80	80	75	67	80	70	75.3	0.317
		90	00	13	01	00	70	, 0.0	0.017

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	To develop and validate models								
	focused on aspects of hospital								
	layout and healthcare								
	worker/patient flow to reduce								
212	HAIs	80	75	63	83	80	70	75.1	0.300
	How does operationalization of		7.0			00	, ,	70.1	0.500
	'resilience' in the health care								
213	system affect medication safety?	75	67	80	67	75	88	75.1	0.333
213	,	/3	07	00	07	/3	00	/3.1	0.333
	To evaluate forms of optimizing								
	drug prescribing in the elderly in								
	collaboration of pharmacists and								
214	GPs.	78	78	50	78	89	78	75.0	0.567
	To assess cost-effective ways to								
	ensure medication compliance								
	and investigate the role of mobile								
	technology/assistive technology,								
	to increase compliance in resource								
215	poor settings.	88	75	75	88	75	50	75.0	0.583
	To assess the human factors								
	which affect the decision-making								
	process during prescribing, to								
216	teach best practices to doctors.	89	78	56	83	72	72	75.0	0.633
210	To examine ambulatory practice	07	70	30	0.5	12	12	75.0	0.055
	prescribing, which types of								
	medications, or combinations of								
	medications, have a high risk of								
217	safety problems in patients.	75	78	63	83	83	67	74.8	0.633
	To identify pictograms which								
	could be used to teach patients								
218	about their medicines	86	81	50	81	75	75	74.7	0.467
	To identify strategies to improve								
	compliance of medication in								
	patients, caregivers and health								
	professionals. What are effective								
	newly developed tools for								
219	medication safety?	88	75	58	81	75	69	74.3	0.533
	To reduce harm related to				0.5	, , ,	, , ,		
	interactions by supporting								
	creation of an app which would								
	help prescribers in reducing the								
	risk of interactions, supporting in								
	decision making, offering possible								
220		88	78	75	78	72	56	74.3	0.533
220	alternative options, such as	88	/8	/5	/8	12	30	/4.3	0.533

	deprescribing, while considering patient's pathologies.								
221	To create a comparative study, which would assess the effectiveness of standardized, patient carried basic medication list in a developing country compared to more involved and complex tools (e.g. Best possible medication history lists) used in developed countries	75	70	70	80	70	80	74.2	0.600
221	To develop a mobile technology	13	70	70	00	70	00	/ 1.2	0.000
222	tool for patient and clinician use, aiding appropriate polypharmacy in LMIC.	83	83	61	72	83	61	74.1	0.533
	To investigate the response to opioids in middle-income countries: is the rise of opioid misuse, abuse, dependence associated with the increased availability of extended-release								
223	opioids.	81	63	69	81	63	88	74.0	0.517
20.4	To perform a qualitative study within the health care workforce focusing on what style of leader health care professionals desire to prevent avoidable medication-		(0)	00				<b>72.</b> 0	0.500
224	related harm?	71	69	88	75	69	71	73.8	0.533
	To conduct a study amongst health practitioners identifying at the practitioner-level barriers to implementation of evidence- based health literacy practices for explaining medications to patients			ā.					0.500
225	and their families.	69	75	81	61	72	83	73.6	0.533
	To investigate the impact of changing the package on the uptake of safe medication								
226	practices.	88	71	67	69	69	79	73.6	0.467

	To implement an information campaign which would aim to inform population in in a more								
	conscientious way about traditional medicines and food								
	supplements possible risks and interactions with their usual								
227	medication.	89	69	63	72	61	88	73.5	0.517
	To create effective techniques in								
	medication error disclosure								
	between health care professionals								
	and to the patient, including legal								
220	statutes that can promote	54	70	45	70	70		<b>50.4</b>	0.045
228	transparency.	71	79	67	79	79	67	73.4	0.367
	What strategies can be implemented to reduce the								
	overuse of medications with poor								
	effectiveness in terminally ill								
229	cancer patients?	69	75	63	88	75	71	73.4	0.483
	To assess the risk of								
	polypharmacy for individual								
	patients and develop cost-								
230	effective solutions.	81	72	61	72	78	75	73.3	0.567
	To assess the clinical significance								
	of drug interactions based on								
	recent studies and creating evidence-based strategies in								
231	deprescribing.	81	78	56	78	72	75	73.3	0.600
231	To gather evidence about the	01	70	30	70	12	7.5	13.3	0.000
	clinically important role of								
232	pharmacists in medication safety.	81	81	44	78	78	78	73.3	0.500
	To conduct a study investigating								
	patient stock-piling of								
	medications and conditions of								
	their storage, their beliefs related								
222	to use of medicines and sources of	4.00	45			70		50.4	0.503
233	medication information.	100	67	61	72	72	67	73.1	0.583
	To determine the incidence of antibiotics obtained without								
	prescription or from earlier								
	consultation by a physician, and								
	how information technologies can								
234	reduce risky behaviours in LMIC.	72	78	67	72	72	78	73.1	0.533

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	To investigate the prescribing								
	indication for opioids in middle-								
	or third-world countries, has								
	liberal prescribing for end-of-life								
	care transitioned into use for non-								
235		88	63	69	75	63	81	72.9	0.483
233	cancer pain management.	00	03	09	/3	03	01	12.9	0.463
	To create an evaluation								
	framework that measures								
	improvement initiatives so that								
	those can be compared (by how								
	effective, efficient, timely, patient-								
	centred, equitable and safe each								
236	intervention is).	81	69	69	75	75	69	72.9	0.433
	To conduct a longitudinal study		0,		7.0	, 3	0,7	12.7	0.100
	on how often systematic								
	medication reviews should be								
	performed in nursing home								
	residents and how medication								
	prescribing should be adjusted as								
	treatment goals shift form								
	preventive/curative to								
237	palliative/comforting care.	92	67	67	75	67	70	72.8	0.333
	To address the key issues in								
	reconciling prescriptions and								
	administration across settings								
238	through a pilot study.	100	72	56	67	72	69	72.6	0.617
230	To assess various human factors,	100	, 2	30	01	12	07	72.0	0.017
	*								
	such as level of informance on								
	medications, as variates to								
	measure which human factors in								
	patients and health care								
	professionals effect prevalence of								
239	medication errors.	79	79	42	79	79	79	72.4	0.400
	To investigate the change in								
	medication safety practice after								
	presenting medication error root								
	cause analysis to healthcare								
240	professionals.	79	78	50	78	75	75	72.4	0.500
210	To assess nurses' skills to do dose	17	70	30	70	7.5	7.5	14.1	0.300
	calculations after absence from								
	work and compare the drug								
	calculation skills of recent nursing								
	students to experienced nurses	= -	.=	= =	= =	e -		===	0.5.7
241	who have just came back to work	86	67	90	83	58	50	72.3	0.367

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	from leave which length has been								
	predetermined to be significant								
	enough (e.g. in maternity leave)								
	To critically evaluate								
	implementation of a standardized								
	opioid tolerance assessment and								
	documentation prior to								
242	administration.	100	67	58	64	64	79	72.0	0.400
212	To assess how different	100	07	30	01	01	17	72.0	0.100
	interventions (including								
	monitoring systems) reduce								
	incidence of harm due to drug-								
	drug interaction in poly-								
243	medicated elderly patients.	81	78	56	72	72	72	71.9	0.500
	To identify strategies to increase								
	adverse drug event reporting/post								
	marketing surveillance amongst								
244	physicians.	90	90	45	80	65	61	71.9	0.650
	To assess the role of nurses in								
245	preventing drug-drug interactions.	89	67	67	72	61	75	71.8	0.517
	To explore novel ways, we can								
	utilise technology (applications								
	and other automation) to reduce								
	adverse medication-related								
	events. What is the role for								
	technology in assisting patient								
	monitoring and correct use of								
246	medications?	75	78	67	78	78	56	71.8	0.550
2.0	To design and evaluate effective	73	70		70	70	30	72.0	0.000
	interventions designed to improve								
	the uptake of health literacy								
	practices related to medication								
247	teaching.	71	79	50	79	86	64	71.4	0.367
217	To implement national level	/ 1	17	30	17	00	01	/ 1.1	0.507
	controlling and monitoring of								
248	safety of herbal medications.	86	71	50	81	69	71	71.4	0.433
	To identify the predictor factors		, 1	30	01	3,	, 1	h	3.,00
	for patient readmission to hospital								
	for medication-related problems								
	in patients with complex								
249	conditions.	88	72	69	72	67	61	71.4	0.567
Z <del>4</del> 9	conditions.	00	12	09	12	07	01	/1.4	0.507

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	To investigate the relationship								
	between the increased availability								
	of prescription opioids and								
250	increased illicit drug use.	81	69	71	69	63	75	71.3	0.433
	To identify and build a platform								
	which would allow patients to								
	access their up-to-date medication								
	list in all times regardless of the								
251	physical location.	75	75	75	65	75	61	71.0	0.617
	To quantify the impact of								
	electronic systems and								
	knowledge-based clinical decision								
	support on reducing medication-								
	related harm in LMICs, by								
	implementing this technology to								
252	smart-phones.	69	72	78	72	72	61	70.7	0.483
232	To conduct an exploratory study	0)	12	70	12	12	01	70.7	0.403
	on the conditions and regulations								
	needed to adopt the prescription								
253	to OTC switch.	75	70	75	67	50	88	70.7	0.333
233	Can implementing interventions	7.5	70	7.5	07	30	00	70.7	0.555
	related to barriers to de-								
	prescribing, in patients with multi-								
	morbidity and polypharmacy,								
	minimise morbidity, mortality,								
	reduce financial burden, improve								
	medication adherence leading to								
254	enhance patient safety?	75	71	58	71	64	83	70.6	0.383
	To conduct an observational								
	study examining the handling of								
	high-risk medications across the								
	continuum of care, and to identify								
255	strategies to ensure its safe use.	89	78	50	75	70	61	70.5	0.567
	To conduct an experimental study								
	investigating the differences in the								
	length of carriage of resistant								
	bacteria, after exposure to a single								
256	course of antibiotics.	75	69	79	61	67	72	70.4	0.483
	To assess patient attitudes and								
	behaviours towards use and								
	storage of medications in relation								
257	to health outcomes.	94	67	56	78	67	61	70.4	0.500
_0 /	to interior	21	01	50	10	01	01		0.000

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	To assess through an								
	observational study how adverse								
	drug events happen and								
	implement interventions to								
258	prevent them from occurring.	70	80	50	75	80	67	70.3	0.600
	To conduct an intervention study	-	-						
	on the impact of medication								
	dispensing technology in								
	preventing and/or reducing								
259	medication errors.	69	72	61	72	72	75	70.3	0.467
	To assess the consequences to the								
	individual's well-being and to their								
	effectiveness when the workplace								
	pursues complete elimination of								
260	avoidable harm.	58	67	83	75	67	70	70.0	0.350
	To perform a study targeting								
	health care prescribers, addressing								
	how to promote effective								
	communication and collaboration								
	amongst other prescribing								
261	providers.	75	75	50	75	75	70	70.0	0.283
201	providers.	/3	/3	50	/3	/3	/0	70.0	0.283
	To identify the best practices for								
	outpatient medication								
	reconciliation followed by								
	creating a toolkit out of the best								
	practices (incl. interventions								
	aimed at patients/caregivers, staff,								
	clinics, health systems, and								
262	communities)	83	72	50	72	72	69	69.8	0.467
	To perform a cost-effective		, _						
	analysis on interventions to						1		
	improve medication adherence to								
	evidence-based cardiovascular								
							1		
262	pharmacotherapy and other		=0	F /	0.2			<b>60.7</b>	0.545
263	chronic conditions.	75	78	56	83	63	64	69.7	0.517
	To identify which factors						1		
	contribute to administration						1		
	errors where medication is not								
	given in nursing homes and care								
264	homes	75	75	60	75	67	67	69.7	0.300
	To conduct a qualitative study for								
	patients, what are their priorities								
	for reducing the risk of								
265	medication-related harm?	85	61	75	75	55	65	69.4	0.550
203	medicadon-related nami;	65	01	13	13	55	0.5	07.4	0.550

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	To assess practices which can								
	increase or decrease errors in								
	anticoagulant therapy of patients								
	who have transitions of care								
	between secondary and primary								
266	care.	75	75	60	75	80	50	69.2	0.350
	To evaluate incidents of								
	inappropriate polypharmacy and								
	develop strategies to reduce harm								
	and improve patient health								
267	outcomes.	81	72	50	72	72	67	69.1	0.467
	To research into the utilization of								
	digital health services monitoring								
	large population health records to								
	survey adverse drug reaction								
268	signals.	57	63	81	69	81	63	68.9	0.433
200	To assess the benefits technology	31	0.5	01	07	01	0.5	00.7	0.155
	can play in reducing medication								
	errors caused by verbal orders,								
	during transition of care and in								
260	engaging and educating patients	(1	70	(2)	70	70	F.	<b>60.</b> F	0.402
269	on their medication.	64	78	63	72	78	56	68.5	0.483
	To identify factors that influence								
	patient decision-making about								
	polypharmacy, to develop								
	decision aids for patients to help								
	them take part on the discussion								
270	of taking multiple medications.	81	67	50	72	72	67	68.2	0.467
	To conduct a study into patient-								
	user strategies, such as e-health								
	and patient information, as								
	facilitators for safe medication use								
271	and medication adherence.	71	75	75	69	69	50	68.2	0.450
	To analyze and identify the root								
	cause of multidrug resistance in								
	the treatment process to create								
272	more effective interventions.	81	81	44	67	72	63	67.9	0.517
	To conduct a study within long-								
	term care/nursing home facilities,								
	examining the surveillance and								
	reporting systems of adverse drug								
	events and patient harm due to								
273	atypical antipsychotics.	79	57	60	83	64	64	67.9	0.333

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	To investigate patient access and								
	use of online medication record								
	systems (such as OpenNotes) and								
274	medication schedules.	86	71	79	57	71	43	67.9	0.400
	To perform an intervention study								
	evaluating whether the provision								
	on information about patient								
	therapy to community								
	pharmacists leads to a decrease in								
27.5		<b>5</b> 0	<b>54</b>	<b>F</b> 0				<b>.π.</b> ο	0.045
275	medication errors.	79	71	50	57	71	75	67.3	0.367
	To conduct exploratory research								
	on emerging technologies to								
	prevent medication events from								
	occurring, available for use in the								
	patient's home and/or long-term								
276	care settings.	61	72	69	72	67	61	67.0	0.467
	To conduct a multisite study								
	analyzing the transfer and								
	communication of medication-								
	related information across health								
	care settings, and between patients								
	and providers. What are the weak								
	points, how can current practices								
277		63	64	75	69	63	69	67.0	0.417
211	be strengthened?	03	04	/3	09	03	09	07.0	0.41/
	To systematically evaluate the								
	most appropriate devices to								
	deliver intravenous medications								
	assessing the risk of								
	complications, and to additionally								
278	investigate.	75	63	63	86	64	50	66.7	0.467
	To create a study comparing								
	effectiveness of two systems, one								
	where medication errors and								
	adverse drug reactions are								
	reported to different								
	entity/portal, and second where								
	these two are combined and the								
279	approach is integrated.	93	57	64	57	64	64	66.7	0.367
217	To determine factors that drive		31	04	31	04	04	00.7	0.507
	spread of HAIs and investigate								
	new approaches that minimize the								
	role of the healthcare								
200	environment in the spread of	00	40	<b>F</b> 0	0.0		70		0.047
280	germs	80	60	50	80	60	70	66.7	0.267

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	To apply global standards on								
	packaging and labelling to have								
	uniformed place and way how and								
	where the best before date and								
	strength of the medicine is placed								
281	in the product.	83	67	42	67	67	75	66.7	0.367
	To investigate the impact of								
282	personalised medicines.	58	67	75	58	67	75	66.7	0.333
	To implement data analytics to								
	reduce medication related patient								
283	harm.	83	75	42	75	67	58	66.7	0.317
	To conduct research into the								
	development of expert systems								
	encompassing a wide scope of								
	patient information (including								
	age, gender, genetic makeup,								
	laboratory tests), to aid as a clinical								
284	decision support.	67	67	67	67	67	67	66.7	0.333
	To conduct an intervention study								
	in hospital emergency								
	departments evaluating the								
	effectiveness of strategies								
205	(organizational/functional) to						=-	4 <b>.</b> 0	
285	reduce delay and overcrowding.	81	64	36	79	57	79	65.9	0.417
	To review current prescribing								
	guidelines and develop strategies								
20.6	to reduce overprescribing,	0.0	70	20	45	47			0.500
286	particularly for opioids.	83	78	39	67	67	61	65.7	0.533
	To conduct a cost-effective								
	analysis on interventions to								
287	reduce avoidable drug-related hospital admissions.	83	72	50	67	61	61	65.7	0.517
20/		83	12	30	0/	01	01	05./	0.31/
	To design and develop sustainable, childproof and								
	tamperproof containers which								
	would ensure there is no risk to								
	take dose higher than intended								
	(e.g. Impossible to dispense more								
288	than 10 ml before realigning it)	75	63	56	56	63	81	65.6	0.417
200	To perform a study identifying	13	03	30	30	0.5	01	05.0	0.117
	medications (and/or combination								
	of medications), that can								
289	potentially lead to acute kidney	93	63	43	69	63	63	65.3	0.433
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	injury in high-risk critically ill								
	patients.								
	To investigate incidents of								
	medication-related patient harm,								
	what role and to what extent does								
	technology and technical								
290	complexity contribute?	64	69	71	69	75	44	65.3	0.417
	To conduct a study investigating								
	clinical situations that lie outside								
	the guidelines, is there an								
	increased incidence of								
	unnecessary bridging with heparin								
291	or low molecular weight heparin?	90	67	60	67	50	58	65.3	0.283
	To create a study assessing long-								
	term adherence and compliance								
	of patients who have complex								
	multi-medication management, by								
	looking from both the perspective								
	of the patient and health care								
202	professional.	85	70	28	80	65	60	(1)	0.617
292		83	/0	28	80	65	00	64.6	0.617
	To identify and examine different								
	types of surveillance programmes								
	utilised to monitor medications								
293	with the potential for abuse.	88	56	63	63	63	56	64.6	0.400
	To examine whether the								
	involvement of Health IT is								
	functioning as expected to								
294	improve medication safety.	75	69	50	75	69	50	64.6	0.400
	To trial a pilot intervention study								
	of the barcode system for								
295	medication in LMIC.	81	67	67	61	56	56	64.5	0.467
	To assess improvements in								
	medication safety after								
	introducing restrictions on drug								
	dispensing (requirement for a								
296	valid prescription).	67	75	50	64	64	64	64.1	0.333
270	To examine the impact of using	07	7.5	30	04	04	04	07.1	0.333
	external, non-biased safety testing								
	companies, in evaluating the risks								
207	associated with potential brand	7.5	/7	ro.	/7	.7	F0	(2.0	0.217
297	names.	75	67	58	67	67	50	63.9	0.317

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	To assess how decision support								
	systems can be integrated with								
	patient data, the culture barriers to								
	rational prescribing in resource								
	poor countries and how electronic								
	prescribing systems relate to								
298	traditional medicine	56	71	69	63	64	57	63.4	0.400
	To investigate the global burden								
	of opioid over-doses and related								
299	deaths.	81	64	29	63	69	75	63.4	0.433
277	To evaluate the implementation	01	01		03	02	13	03.1	0.155
	of QR coding for all medicines in								
	their respective market and assess								
	the public awareness of the need								
	to verify the authenticity of								
• • • •	medicines in countries which have						= -		
300	implemented the QR coding	63	60	88	60	60	50	63.3	0.217
	To conduct a multisite analysis								
	investigating hospital adverse								
	events. What has been the impact								
	of electronic medical record								
	(EMR) systems, the different								
	modes of EMR, and optimal								
301	approaches in design and delivery?	70	67	58	67	67	50	63.1	0.300
	To conduct a study designed to								
	investigate the intentional non-								
302	adherence of medication.	72	61	50	78	61	56	63.0	0.483
	To compare the benefits of								
	pictorial information in								
	medication instructions to written								
	instructions alone, in improving								
	medication safety. To what extent,								
	in what contexts and formats is								
	pictorial information most								
303	beneficial?	69	63	56	63	63	63	62.5	0.417
	To compare generic marking of								
	every individual medication and								
	dosage against existing medication								
304	in improving medication safety?	63	60	75	67	50	60	62.4	0.300
30 r	To research into the development	0.5	30	13	07	30	30	J2. r	0.500
	of novel electronic health record								
	data entry methods, to facilitate								
205		74	(2)	71	70	(1	44	62.1	0.422
305	accuracy and reduce errors.	71	63	61	72	61	44	62.1	0.433

	To develop Shared Care								
	Guidelines for selected medicines,								
	to promote safe continuity of care								
306	in the community.	86	64	36	64	64	58	62.1	0.350
300	To assess the benefits and risks of	00	04	30	04	04	36	02.1	0.550
	medications affecting the central								
	antipsychotics, antidepressants,								
	anticonvulsants, benzodiazepines,								
	in patients with complex conditions such as ADHD,								
207	substance abuse/misuse, and	(1	70	40	(2	69	(2)	(2.0	0.400
307	chronic pain.	64	72	42	63	69	63	62.0	0.400
	To ascertain and develop the role								
	of clinical informaticians to bridge								
	the gap between health IT design								
308	implementation and healthcare professionals.	69	57	64	63	63	56	61.9	0.383
308	To investigate the effect on	09	3/	04	0.5	0.3	30	01.9	0.383
	patient safety if medication is								
	infused through central versus								
309	peripheral veins.	75	69	43	69	63	50	61.3	0.467
309	To identify through pilot studies	/3	09	43	09	03	30	01.3	0.407
	ways to prevent inappropriate use								
	and over-prescribing due to								
310	financial incentives to physicians.	50	69	69	50	63	63	60.4	0.367
310	To investigate and develop model	30	09	09	30	03	03	00.4	0.307
311	success stories utilising health IT.	81	63	56	63	50	50	60.4	0.433
311	To evaluate the current electronic	01	03	30	03	30	30	00.4	0.433
	prescribing process and pilot a								
	redesign on indication and								
	decision supporting drug of								
312	choice.	67	75	67	67	67	20	60.3	0.300
312		07	13	07	07	07	20	00.5	0.300
	To undertake exploratory research on the feasible								
	implementation of a feedback								
	system for physician prescribing								
313	practices.	56	61	72	56	56	61	60.2	0.433
313	To conduct a longitudinal	30	01	12	50	30	01	00.2	0.433
	observational study of patient								
	medication non-adherence on								
314	health outcomes.	88	63	25	67	67	50	59.7	0.517
314	nearm outcomes.	00	03	23	07	0 /	30	39./	0.51/

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	To conduct a study exploring								
	implementation methods of drug								
315	classification systems in LMIC.	67	57	50	64	50	67	59.1	0.300
	To evaluate effectiveness of								
	treatments used to manage								
	extravasation of intravenous								
	medications to minimize								
316	medication related harm.	70	71	25	57	71	57	58.7	0.350
	To conduct an intervention study								
	to determine whether handling of								
	intravenous fluids alike								
	medications (with protected								
	access and patient-specific details)								
	will reduce medication-related								
317	harm.	58	57	58	58	58	60	58.4	0.300
317	To conduct a	30	31	30	30	30	00	30.7	0.300
	multisite/multimodal study								
	evaluating the role and impact of								
	utilising digital methods in the								
	health care process to reduce								
318	medication errors.	50	63	57	63	63	50	57.4	0.367
310	To identify high-risk situations	30	03	37	03	03	30	37.4	0.367
	applicable globally that should be								
	programmed in all information								
210	systems (EHRs, CPOE, e-			2.4			F.0.		0.245
319	prescribing).	57	57	64	57	57	50	57.1	0.317
	To identify and create								
	recommendations for the most								
	effective approach to decision								
	support alerts in electronic								
	prescribing systems, the optimum								
	sensitivity and specificity and								
	criteria which should be used to								
	enable prescriber to receive alerts								
320	but not receive alert fatigue.	67	63	50	63	63	38	56.9	0.267
	To investigate how having an								
	understanding about health								
	literacy can contribute towards								
	ways that practitioners give								
	information to patients about								
321	their medications.	63	61	28	67	56	67	56.7	0.467

	To study the feasibility, impact								
	and scalability of awareness								
	among patients and clinicians, that								
	low kidney function as a major								
	risk factor for medication-related								
	patient safety events, delivered in								
	a variety of ways - pharmacy,								
	clinic, telephone, smart phone								
322	application?	70	58	70	58	50	33	56.7	0.283
322		70	36	70	36	30	33	30.7	0.203
	To develop digital thermometers								
222	for use with medicine fridges and	70	F0	20	<b>4</b> 5	<b>5</b> 0		- 4 -	0.445
323	freezers.	78	50	39	67	50	44	54.5	0.417
	Assessing the benefits on patient								
	safety and efficacy of marking								
	expiration month and date on								
324	tablets.	69	50	33	81	44	50	54.5	0.383
	To conduct exploratory research								
	on new methods to improve user-								
325	centred design and technology.	60	50	50	50	60	50	53.3	0.250
	To evaluate the efficacy of generic								
	antibiotics compared to their								
	original patented brand. Do they								
	have the same impact on								
	antibiotic-resistant bacteria in the								
326	digestive flora?	50	50	50	58	50	58	52.8	0.267
320	To assess the efficacy of antibiotic	30	50	30	50	30	30	32.0	0.207
	delivery by the per lingual route,								
	what is the impact on the gut flora								
	and contribution to antimicrobial								
327	resistance?	60	50	50	43	57	50	51.7	0.300
	To examine the role of Artificial								
	Intelligence in reducing								
	medication-related patient harm								
	from the perspective of multiple								
	stakeholders including clinicians,								
	patients, consumers and								
328	administrators.	60	38	63	50	50	40	50.0	0.250
	To research into producing a								
	medicines handbook that								
	classifies medication by disease								
	and patient group, that can be								
	applied to different geographic								
220		50	38	63	50	38	50	47.9	0.292
329	country contexts.	50	38	0.5	50	38	50	47.9	0.383

330	To assess the required global standards required to be in place before introducing a new digital system to any market.	63	43	43	50	44	44	47.6	0.383
331	To identify ways to ensure that the systemic problems (and failings) of medication safety amongst healthcare professionals will not conflict with the current trend of increasing patient knowledge and awareness.	44	44	63	44	38	29	43.3	0.367
332	To create recommendations to accurately identify a patient which could be applied to different institutional contexts.	42	42	30	42	25	25	34.2	0.333
333	To investigate the change in the status of the medication to create reliable processes.	25	30	20	25	25	25	25.0	0.317