BMJ Open Impact of health system governance on healthcare quality in low-income and middle-income countries: a scoping review

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ABSTRACT

Introduction Improving healthcare quality in low-/ middle-income countries (LMICs) is a critical step in the pathway to Universal Health Coverage and health-related sustainable development goals. This study aimed to map the available evidence on the impacts of health system governance interventions on the quality of healthcare services in LMICs.

Methods We conducted a scoping review of the literature. The search strategy used a combination of keywords and phrases relevant to health system governance, quality of healthcare and LMICs. Studies published in English until August 2023, with no start date limitation, were searched on PubMed, Cochrane Library, CINAHL, Web of Science, Scopus, Google Scholar and ProQuest. Additional publications were identified by snowballing. The effects reported by the studies on processes of care and quality impacts were reviewed.

Results The findings from 201 primary studies were grouped under (1) leadership, (2) system design, (3) accountability and transparency, (4) financing, (5) private sector partnerships, (6) information and monitoring; (7) participation and engagement and (8) regulation. **Conclusions** We identified a stronger evidence base linking improved quality of care with health financing, private sector partnerships and community participation and engagement strategies. The evidence related to leadership, system design, information and monitoring, and accountability and transparency is limited.

INTRODUCTION

Achieving the health-related goals of the sustainable development goals (SDG) demands a renewed focus on improving the quality of healthcare services, particularly in the context of low-/middle-income countries (LMICs). The commitment to provide Universal Health Coverage (UHC) is an opportunity to give greater prominence to the agenda of quality of care (QoC). Mere expansion of access to health services, without intentional efforts to improve the quality, will compromise the prospects of UHC.¹ Low QoC significantly contributes to excess mortality

STRENGTHS AND LIMITATIONS OF THIS STUDY

- ⇒ This review provides an extensive map of the studies that assess the impacts of a range of governance interventions on quality of care in low-/middle-income countries settings.
- ⇒ The findings highlight the need for more robust approaches to evaluating the impacts of governance interventions using comparable designs and measurement metrics.
- ⇒ In the absence of a commonly agreed framework for governance of quality, the interventions included in this study may not be an exhaustive list.
- \Rightarrow This review did not analyse the contextual, social and relational factors influencing the governance environment and its impacts on quality.
- ⇒ The heterogeneity of study designs and indicators measured in included studies makes comparisons across studies difficult.

in developing countries. Improving health service quality will have a more significant overall effect on mortality than expanding service coverage alone.² The 2018 Lancet Global Health Commission on High Quality Health Systems in the SDG era implored the national health systems to govern for quality.³

Several definitions and frameworks have been used to describe the different dimensions of quality.4-8 The Institute of Medicine described effectiveness, safety, people-centredness, timeliness, equity, integration and efficiency as the elements of quality.¹⁹ In this review, we adopted the Lancet Commission's recommendation to evaluate health systems based on their impacts on people, such as competent care, user experience, health outcomes and confidence in the system.³

The Lancet Commission's Framework describes governance as one of the foundations of high-quality health systems.³ There is no commonly agreed description of what

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Correspondence to Mr Joby George; jobycare@gmail.com constitutes health system governance in the context of QoC. The frequently mentioned health governance functions are leadership,^{3 10 11} formulating laws and policies,^{3 10-16} system design,^{10 12} accountability,^{3 12 14-16} transparency,¹³⁻¹⁵ information and monitoring,^{3 10 11 13 16} participation,¹³⁻¹⁶ regulation,^{10 12 16} partnerships^{3 10 12} and financing.^{3 11}

In most LMICs, quality improvement initiatives primarily focus on clinical outcomes as opposed to addressing upstream governance and management practices.¹⁷ Identifying appropriate governance approaches to improve quality in LMICs is also challenging. Rigorous evaluations of the impact of interventions for non-facility determinants of quality, such as policies and management of healthcare organisations, are rare.^{18–21} The adaptation of available evidence from high-income countries to the unique contexts of LMICs is another barrier.²¹

Earlier reviews have provided valuable insights into the linkages between governance mechanisms and healthcare quality in LMICs.^{11 22-24} A review of experiences from 25 countries highlighted promising practices such as the explicit inclusion of quality as a priority in health planning, establishing dedicated institutional structures, establishing mechanisms to monitor quality and allocating resources to improve quality.²³ This paper did not analyse the impacts of those interventions on QoC at the service delivery level. An evidence-gap map of primary healthcare policy and governance in LMICs identified gaps in social accountability, public-private partnerships (PPP) and intersectoral collaboration.²⁴ Other reviews have analysed the impacts of specific governance interventions such as demand-side and supply-side health financing strategies,²⁵⁻³⁴ stakeholder and community engagement,^{35 36} social accountability mechanisms,^{37–39} private sector partnerships⁴⁰⁻⁴⁶ and regulatory approaches.^{43 47-49} However, a broader mapping of the various governance interventions linked to the quality of healthcare services in LMICs is absent. This scoping review addressed this gap by mapping the available evidence on the impacts of health

system governance interventions to improve healthcare quality in terms of care processes and quality impacts.

The review questions were: (1) What is known about the impacts of health system governance strategies or interventions on healthcare quality in LMICs? (2) What are the knowledge gaps regarding effective governance interventions to improve healthcare quality in LMICs?

METHODS

Study design

This scoping review follows the established methodology for conducting and reporting scoping reviews.^{50–56} The study findings were analysed for effects on processes of care and quality impacts. We adopted the categorisation used by the Lancet Global Health Commission, which also incorporates the concepts from several other frameworks, to analyse and group the effects on QoC under care processes and quality impacts (table 1).³

The study protocol was registered with Open Science Framework (https://doi.org/10.17605/OSF.IO/BF75P). We present our findings in line with the Preferred Reporting Items for Systematic Reviews and Meta-Analyses Extension for Scoping Reviews checklist (see online supplemental file 1).⁵⁵

Eligibility criteria

We included English language research studies or programme publications presenting quantitative and/or qualitative data published on or before 31 August 2023 with no start date limitations. These studies investigated the impact of one or more governance interventions on healthcare quality in one or more LMICs. The following studies were excluded: those that did not report on healthcare quality in terms of care processes or quality impacts; those that reported effects only on the utilisation of services; those that implemented only clinical improvement tools (eg, clinical audit); and those that focused

Table 1 Definitions c	Table 1 Definitions of quality healthcare applied in this review (adapted from Kruk et al.) ³			
	Components			
Quality impacts				
Better health	Level and distribution of patient-reported outcomes; function, symptoms, pain, well-being, quality of life, and avoiding serious health-related suffering			
Confidence in system	Satisfaction, recommendation, trust, and care uptake and retention			
Economic benefits	Ability to work or attend school, economic growth, reduction in health system waste and financial risk protection			
Processes of care				
Competent care and systems	Evidence-based, effective care: systematic assessment, correct diagnosis, appropriate treatment, counselling, and referral Capable systems: safety, prevention and detection, continuity and integration, timely action, and population health management			
Positive user experience	Respect: dignity, privacy, non-discrimination, autonomy, confidentiality, and clear communication User focus: choice of provider, short wait times, patient voices and values, affordability, and ease of use			

only on improving infrastructure, training of health human resources or pharmaceutical quality.

Data sources and literature search

The research strategy was developed based on a preliminary literature review to identify the essential governance functions and related interventions. The search strategy (see online supplemental file 2) used a combination of keywords and phrases relevant to health system governance, quality of healthcare and LMICs. The countries included were those classified as low-income, lowermiddle-income and upper-middle countries based on the World Bank Atlas method for the 2021 fiscal year.⁵⁷ We conducted searches of peer-reviewed journals and grey literature in seven electronic databases: PubMed, Cochrane Library, CINAHL, Web of Science, Scopus, Google Scholar and ProQuest Central. We also searched the reference list of included systematic and scoping reviews to identify additional primary studies relevant to this review. The websites of international development organisations were also searched to identify publications.

Study selection

All references searched from electronic databases were imported into Covidence (www.covidence.org), and duplicates were removed. Two reviewers (JG and TS) screened the titles and abstracts and reviewed the shortlisted full-text articles. Conflicts at both stages were resolved through discussion. Relevant primary studies from previous reviews and additional publications from grey literature were identified by JG and reviewed by TS before inclusion into the review.

Data charting and extraction

Data were extracted by JG using a data extraction template, which was refined and modified by JG and TS based on the experiences from the extraction of the first few papers. The information extracted included the study title, country, year of publication, objectives, study design, intervention(s), health services and the descriptive results on care processes, user experience, health outcomes, confidence in health systems and economic benefits. The country income classification was assigned using the World Bank list for 2021.⁵⁷

Analysis and reporting

The analysis framework was developed by JG and reviewed by the TS. A numerical summary of the studies that reported any of the impacts on QoC was prepared. The descriptive findings were analysed using the content analysis method. The studies were grouped by the nine governance domains identified by the authors *a priori* based on the preliminary review of literature on the key functions of health sector governance and related interventions. Studies that used multiple governance interventions were grouped under a new category of 'multiple domains.' Content analysis was conducted for each of the governance domains and each type of quality impact. The results were reported to show a numerical mapping of the availability of evidence on QoC under each of the governance domains. The findings from the content analysis were summarised by governance domain and type of interventions. JG conducted the analysis with support from TS. SJ, RG, and TC reviewed the analysis reports and provided comments.

Consultation with stakeholders

A summary of the findings of this review was shared with 19 stakeholders who have expertise in supporting LMIC health systems for improving healthcare quality, seeking their perspectives, and exploring any additional studies for inclusion. The inputs from the consultation were incorporated into the final report.

Patient and public involvement

None

RESULTS Search results

A total of 8299 articles were retrieved, 7407 articles underwent abstract screening, and 203 papers were selected for full-text review, of which 109 were excluded after the review. Snowballing identified an additional 107 primary studies. A total of 201 articles were selected for the final review (see figure 1). A list of excluded papers and reasons for exclusion are presented (see online supplemental file 3).

Characteristics of included primary studies (n = 201)

Overall, 64% (n=128) of the studies were conducted in lower-middle-income countries, followed by 25% (n=49) in low-income countries, 9% in upper-middle-income countries (n=18) and 3% (n=6) in multiple countries. Study designs included 39 randomised controlled trials, 65 quasi-experimental, 77 observational or descriptive studies and 20 qualitative studies. Most studies evaluated the quality impacts on reproductive, maternal, newborn and child health (RMNCH) services (n=135). General primary care (n=52), hospital inpatient care (n=11) and communicable diseases (n=3) accounted for the remaining studies.

Findings from included studies

This section presents a numerical summary of the types of impacts on QoC reported by the included studies. Most studies reported impacts on competent care and systems (n=149), and confidence in health systems, primarily evidenced by improved utilisation of services, were reported by 105 studies. Evidence on user experience (n=94), better health (n=62) and economic benefits (n=41) were reported by fewer studies (see table 2). It is pertinent to highlight that several studies reported using composite QoC scores, which are presented here under competent care and systems.



Figure 1 Preferred Reporting Items for Systematic Reviews and Meta-Analyses flow diagram.

Impacts on quality by governance domains (n=201)

This section summarises the descriptive findings from all primary studies (n=201). Health financing interventions (n=114) accounted for the majority (57%) of studies analysed, followed by engaging the private sector (n=24) and regulation (n=11). Leadership (n=3), information and monitoring (n=8), accountability and transparency (n=7),

system design (n=8), and participation and engagement (n=9) had fewer studies (see online supplemental file 4).

Leadership

Three studies analysed interventions related to leadership, policies and strategic plans.^{58–60} Government stewardship of private clinics was associated with improved

Table 2 Summary of studies reported impacts on healthcare quality					
	Number of studies reporting impact on quality				
Intervention domains investigated in this study	Competent care and systems	User experience	Better health	Confidence in health systems	Economic benefits
Leadership	3	-	1	-	_
System design	5	7	-	4	2
Accountability and transparency	5	2	1	6	2
Financing (demand-side)	34	34	22	29	15
Financing (supply side)	54	26	10	36	7
Engaging the private sector	16	15	8	11	9
Information and monitoring	6	1	2	-	2
Participation and engagement	6	2	7	7	2
Regulation	10	2	2	2	-
Multiple domains	10	5	9	10	2
All	149	94	62	105	41

overall QoC and care processes.⁶⁰ Formulating a national quality policy and strategy in Lebanon and Jordan led to improved licensing and regulatory systems.⁵⁸ No patient-level impacts were reported. Developing and implementing governance action plans in Afghanistan resulted in mixed effects on care processes and quality impacts.⁵⁹

System design

We included eight studies^{61–68} that analysed system design interventions. The interventions included decentralised prioritisation and planning, initiatives to improve managerial efficiency and local-level policy initiatives. Positive effects included reduced medication errors,⁶¹ increased screening of pregnant women for HIV,⁶³ high patient satisfaction with the services^{61 62 64 65 68} and trustful relations between the providers and users.^{61 62} Negative effects were reduced access and affordability of services and client satisfaction,⁶⁷ decreased utilisation of services and additional costs incurred in procuring the drugs from private providers.⁶⁸

Decentralisation

Decentralisation of decision-making, planning and implementation had varied impacts on QoC.^{65–68} In Sudan, decentralisation resulted in the deterioration of the overall QoC and utilisation of services. Availability and affordability of services were reduced, and inequity in service accessibility increased.⁶⁷ In Nigeria, the low availability of equipment, drugs and supplies left many clients dissatisfied with the services. ⁶⁸ Increased autonomy of hospitals in Indonesia for decentralised planning, budgeting, and management showed overall positive results in structural quality and client satisfaction.⁶⁵ In Kenya, decentralisation was helpful to improve accessibility and availability of services, but the QoC remained low owing to low investments in infrastructure and staffing. Stakeholders also believed that quality needs to be emphasised better in the priority-setting process.⁶⁶

Strengthening management systems

In Tanzania, strengthening management systems and community engagement resulted in improved availability of reproductive health services, structural readiness, client-perceived QoC and high levels of client satisfaction.⁶⁴ The integrated supervision system in Nigeria improved a few aspects of clinical quality but no changes in the coverage of services like immunisation.⁶³

Local-level policy initiatives

The treatment-before-deposit policy in China⁶² and no-class-wards in Indonesia⁶¹ reduced perceptions of discrimination and improved trust in providers. The perceptions of quality and satisfaction also improved.

Accountability and transparency

All eight studies analysed the effects of community scorecards or other social accountability tools.^{69–76} Studies in the Democratic Republic of Congo⁷⁵ and Malawi⁷⁴ analysed the use of community scorecards to strengthen the accountability of health service providers. Positive effects included improved quality of antenatal counselling, provider attitudes, and rapport and fairness, and reduced incidence of bribes. Community meetings and tools for citizen voices and action were implemented in Uganda, India, Cambodia, Afghanistan and Ghana. Positive effects included a better screening of children,^{69 71} improved provider courtesy and provision of information,^{70 72} improved nutritional status among children and decline in child mortality,⁶⁹ and enhanced trust and confidence in providers and higher utilisation rates of services. In Kenya, the clients reported being treated respectfully, though some negative provider behaviours and long waiting times persisted.⁷⁶ In India, the results were not so positive, with no changes in maternal and newborn care service quality or outcomes.⁷³ None of the studies reported any negative effects.

Demand-side financing

A total of 55 studies^{77–131} examined interventions such as the removal or exemption of user fees (n=18), health insurance (n=19), vouchers (n=9) and conditional cash transfers (CCTs; n=9).

Complete or partial removal of user fees

Eighteen studies reported the effects of total or partial removal of user fees.^{77–92 95 110} All except three studies^{86 87 90} involved user fee exemptions specifically for maternal healthcare services. Partial or complete removal of user fees generally did not significantly alter the technical guality of services.^{78 80–82 85 87 89 90 110} However, a few studies reported increased waiting times, reduced duration of consultations, worsening provider attitudes and inadequate drugs, supplies and equipment.^{83 85 89 92 95} The utilisation of services, particularly for antenatal care, delivery, child vaccinations and management of delivery-related complications improved in most instances. Client satisfaction with the free services was high.^{79 82 87 88 90 95 110} One study reported that the free services were only partially free as patients continued to pay for certain services, such as investigations or medicines, informal payments, and the indirect costs of seeking care.⁸⁵ Low staff morale among providers resulting from increased workload has also been documented.⁸⁴ Four studies reported better health outcomes.^{80 82 87 110}

Some of the negative consequences include low privacy, poor hygiene, lack of compliance with obstetric care standards, neglect by the providers, longer waiting times, reduced availability of drugs and decreased trust due to unofficial payments.^{83–85 89}

Insurance or risk-pooling

The effects of health insurance were analysed in 19 studies.^{93 94 96-109 129-131} The results ranged from improved perceived and actual $QoC^{93 94 104 107}$ to the perceived worsening of quality.^{96 100 105} Increased service utilisation has been reported by several studies, particularly for antenatal care, outpatient visits and facility births. Client

copyright.

satisfaction levels show wide variations across schemes. The study from China concluded that insurance increased unnecessary service provision and substantial costs for the poor.¹⁰⁵ Better health outcomes were reported by two studies¹⁰² ¹⁰⁷ and economic benefits by four studies.^{93 97 103 107} In contrast, the study from Costa Rica challenged the notion that insurance can lead to significant reductions in infant and child mortality.99 There was no difference between insured and uninsured clients. in the perceived responsiveness of outpatient services in Ethiopia.¹³⁰ In Zambia, insurance was associated with greater confidence in health systems and improved care experiences.^{129 131} As in the case of user fee exemptions, QoC may need more investments to improve structural quality in health facilities.^{93 101}

Vouchers

Nine studies examined the effects of voucher schemes on the quality of reproductive health or maternal health-care services.¹¹¹ ¹¹² ¹¹⁵ ¹¹⁶ ¹¹⁸ ¹¹⁹ ¹²⁴ ¹²⁷ ¹²⁸ Generally, voucher schemes improved the demand for family planning and maternal health services and reduced inequities in the utilisation.^{111 112 115 116 124 127 128} The effects on clinical QoC were varied, with four reporting positive effects.^{111 115 118 119} Client satisfaction levels were generally positive.^{118 124 127 128} Two studies reported better health outcomes.^{112 115} None of the studies reported adverse effects on care processes or quality impacts.

Cash transfers

Nine studies analysed the effects of CCTs on the quality of maternal, newborn and child health services.¹¹³ 114 117 120-123 125 126</sup> Three studies from India, which examined the effects of the Janani Suraksha Yojana, reported that the intervention led to a substantial increase in the uptake of maternal health services.¹¹⁷¹²¹¹²³ Two of them suggest a possible decline in neonatal mortality.^{117 123} Three studies from Brazil, which analysed the impact of Bolsa Familia on the quality of child health services, reported a significant reduction in child mortality resulting from postneonatal conditions. The effects were more prominent for mortality related to malnutrition and diarrhoea.^{122 125 126} One study also reported increased child vaccination coverage and antenatal care and reduced admission of under-5 children to hospitals.¹²² The study on *Oportunitades* in Mexico showed significant improvements in the quality of antenatal care for low-income rural women,¹¹³ and that of Progresa showed a significant reduction in infant mortality rate, particularly in areas with low socio-economic indices.¹¹⁴ The programme in Nigeria¹²⁰ positively affected the utilisation and quality of maternal health services, but there was no reduction in mortality. None of the studies reported any negative effects of CCT on care processes or quality impacts.

Supply-side financing Fifty-nine studies^{132–190} examining supply-side financing interventions are included.

Financial incentives

Incentivised payments linked to healthcare performance are known by several names-performance-based incentives (PBI), pay-for-performance, results-based financing (RBF), performance-based financing (PBF), and resultsbased incentives.

Though there are wide variations in the design of the schemes in different countries, the intervention works by providing additional financial payments linked to a set of performance indicators. In most designs, quality indicators are part of the performance criteria set for the payment. Incentives are often paid as bonuses to the service providers proportionate to achieving performance targets. Indirect incentives, which operate at higher levels of the system, are also included in many of the designs. This paper uses the term PBF to describe all these interventions.

Most of the supply-side financing studies (n=48) fall under this category. Most of the studies reported a positive impact of the incentives on service utilisation for the incentivised services. The improvements were greater for services with the highest incentive payment and those that required the least effort from the provider.¹³⁵ Most of the studies reported improvements in clinical QoC, ¹³³ ¹³⁵ ^{139–142} ¹⁴⁴ ¹⁴⁹ ¹⁵¹ ¹⁵⁵ ¹⁵⁶ ¹⁵⁹ ¹⁶² ¹⁶³ ¹⁶⁶ ¹⁶⁷ ^{170–176} ¹⁷⁸ ¹⁸² ¹⁸⁴ ¹⁸⁵ ¹⁸⁷ and client satisfaction levels.¹³² 133 143 144 146 149 154 159 160 166 170–172 176 178 183 185-187 189 Three showed a reduction in mortality rates,145 184 187 and two reported improvements in child nutritional status.^{151 168} In Tanzania, the incentives significantly reduced bypassing of facilities.¹³⁷ The quality of non-incentivised services either improved or remained unchanged, resulting from the quality-multiplier effect.¹³²¹⁷⁹¹⁸³ Instances of disrespect, abuse and neglect were reported by women seeking care from PBF facilities in Malawi.¹⁵⁷ No studies reported negative consequences on quality impacts.

One study reported a decline in the use of non-targeted services for children,¹³⁸ and one reported no effects on non-targeted services.¹⁵⁴ The availability of demand-side incentives and addressing the weaknesses in the service delivery and management capacities are essential to the effectiveness of supply-side incentives. 141 148 157 161 163

Non-financial incentives

Two studies from Malawi¹⁸⁰ and El-Salvador¹³⁶ reported the effects of non-financial incentives on RMNCH services. Both studies reported improvements in clinical OoC and utilisation of services.

Performance incentives, in combination with other interventions

A study in Bangladesh, which compared the effects of PBF, CCT and a combination of both,¹⁷² reported that PBF and CCT led to significant improvements in clinical OoC, client satisfaction and utilisation of maternal healthcare. The clinical quality for antenatal and delivery care was better in the PBF group, while utilisation was higher in the CCT group. A combination of both interventions resulted in significantly higher client volumes. In China,

a policy initiative to pay a capitated budget proportionate to the number of clients to township health centres and village posts, along with PBF, improved drug prescribing practices and reduced cost per visit.¹⁸² In the Philippines, the health insurance scheme combined with PBF for physicians resulted in sustained improvements in clinical quality scores.¹⁷⁰ The study in Burkina Faso, Ghana and Tanzania to implement an electronic decision-support system coupled with PBF did not show improvements in antenatal and childbirth care quality despite high acceptance of the new technology.¹⁴⁷ The RBF and CCT for maternal healthcare in Malawi led to improved clinical practices during childbirth and a corresponding decline in in-facility maternal mortality.¹⁴⁵ In Zimbabwe, implementing continuous quality improvement in facilities under the PBF scheme improved compliance with maternal healthcare services at the primary healthcare level. In contrast, no improvements were reported for other services or hospital services.¹⁹⁰

Cost recovery approaches

All three studies on the introduction of user fees were from low-income countries. Three studies from Zaire, Niger and Eritrea examined the effects of user fees on QoC.^{134 152 181} The results show a mix of positive and negative effects. The positive outcomes include improved interpersonal aspects during the antenatal period and high levels of patient satisfaction. The negative consequences were more, which concerns about widening inequities and low QoC,¹³⁴ decreased client satisfaction related to waiting time,¹⁵² bypassing of lower-level facilities,¹³⁴ reduced utilisation of services and increased cost of consultations.¹⁵²

Engaging the private sector

A total of 24 studies which examined different types of health systems engaging with the private sector for health service delivery are included.

Franchising

The fourteen studies from Pakistan, Nepal, India, Vietnam, Myanmar, Cambodia, Ghana and Kenya evaluated various franchising models.¹⁹¹⁻²⁰⁴ One analysed the results from the social franchising programmes in 17 Asian and African countries.¹⁹⁷ Almost all franchises provided reproductive health or maternal and child health services, except the one from Myanmar,¹⁹⁵ which implemented tuberculosis control interventions. Overall, franchising interventions improved the availability of services and supportive products and supplies, counselling and provision of information. Client satisfaction and client loyalty were found to be high, resulting in increased patient volumes. The quality of maternal and newborn care services in Pakistan and India remained low.¹⁹⁴ 199 200 203 Studies on Sky Health, Merrygold, and Matrika franchising in India reported overall low quality of services, though improvements in provider behaviour

and client satisfaction were reported. $^{194\,199\,203}$ An increase in the cost of care was reported as a negative effect. 192

Contracting

Six studies examined the contracting of governmentfunded services to non-governmental health providers.^{200 205–209} The results show a high degree of variation across countries. In Cambodia, there was improved management of diarrhoea, but the clients' perceptions of provider attitudes were negative.²⁰⁶ In Pakistan, the clinical quality of services improved, but the overall quality remained low. However, the client's perception of quality and satisfaction levels were high. Utilisation rates and client-reported quality improved.^{200 208 209} The results from Bangladesh were generally very positive, with improved availability and quality of services, higher utilisation rates, reduced mortality, improved nutritional status and high levels of client satisfaction.^{205 207} One study from Bangladesh reported a reduction in mortality rates,²⁰⁵ while the study from Cambodia reported reduced morbidity among children.²⁰⁶

Contracting negatively affected staff attitudes, provider competence and availability of equipment and supplies.²⁰⁰ ²⁰⁶

Public-private partnership

PPP models are examined in four studies from India^{210–212} and Lesotho.²¹³ The *Chiranjeevi Yojana* in India was associated with more and better clinical services, reduced waiting times and high patient satisfaction. The intervention was not associated with a change in the uptake of maternal and newborn care services or the management of complications.^{211 212} The PPP hospital networks in Lesotho resulted in better health outcomes, such as lower hospital mortality rates, lower stillbirth rates, and improved survival of low birth weight newborns.²¹³ Poor equipment availability and inappropriate staff attitudes led to low user satisfaction.²¹⁰

Private sector capacity strengthening

The only study from Kenya analysed the effects of an intervention to strengthen the capacity of the private sector to improve the quality of general healthcare services. The results were mixed, with improved interpersonal aspects of care and reduced unnecessary procedures and waste. However, the intervention was associated with a reduction in the correct management of outpatient cases and showed major deficiencies in laboratory quality. There were no changes in the patient perceptions of quality or client satisfaction.²¹⁴

Information and monitoring

Eight studies that analysed various information and monitoring interventions are included in this review.^{215–222} In Mexico, the study involved benchmarking by measuring effective coverage to monitor progress, foster accountability and create a culture of evidence. This improved effective coverage of maternal and child health services, though some inequities remained unchanged.²¹⁷ Balanced scorecards used in Afghanistan as a national health service performance assessment tool showed improved availability, quality and equity of service provision and client and provider satisfaction.²¹⁶ Quality-of-care audits of perinatal mortality in South Africa did not establish an effect of the intervention on perinatal mortality. However, more facilities were able to identify modifiable factors and take remedial actions.²¹⁵ A dashboard-driven patient safety programme in India showed significant improvements in composite quality scores and compliance with patient safety protocols.²²⁰ Healthcare performance evaluation in three districts of Ethiopia, Tanzania and Uganda showed improved quality and better governance in decision-making, accountability and allocation of resources.²²²

Holding quality contests among health facilities in Morocco improved the quality scores of the primary healthcare facilities participating.²¹⁹ In Kenya, the intervention to apply data-driven prioritisation at the health facilities contributed to significant improvements in structural readiness, better infection prevention and control, compliance with clinical protocols, reduced waiting times and reduced neonatal mortality.²¹⁸

Participation and engagement

Four randomised controlled trials in Nepal, Bangladesh and Malawi evaluated the effects of participatory women's groups and strengthened health services for maternal and newborn care.^{223–226} Three of these studies reported a significant reduction in neonatal mortality rates.^{224–226} One study showed a decrease in maternal mortality.²²³ while two trials did not affect maternal mortality.^{223 224} One trial in Bangladesh, which did not show a reduction of neonatal mortality rate, highlighted the importance of appropriate design to reach the coverage of the intervention and address the contextual factors.²²³

Four other studies from India, Ghana and Malawi examined the effects of community mobilisation without inputs for health service improvements.^{227–230} The results were mixed, with one study reporting improved care processes such as information provision and respectfulness, and one study showed a reduction in the rates of stillbirths, neonatal mortality and perinatal mortality. ²³⁰ The effects on the utilisation of health services varied. None of the studies reported negative effects on care processes or quality impacts. A study from Indonesia reported the low willingness and readiness of service recipients to engage in patient safety initiatives.²³¹

Regulation

Eleven studies evaluated the impacts of various forms of regulation of health facilities on QoC.^{232–242} In South Africa, hospital accreditation was associated with improved compliance with quality standards. It also improved patient satisfaction with care.²³⁹ Both the studies from Egypt showed improved compliance with clinical protocols.^{233 235} One study also reported reduced morbidity among children and improved family planning

and maternal care services uptake.²³⁵ In Turkey, accreditation improved quality management scores, improved infection prevention practices and improved hospital patient handling and medication practices.²⁴² Hospital accreditation in Thailand reduced hospital mortality related to stroke and sepsis and significantly increased client volumes.²⁴⁰ Client satisfaction levels were high in two studies.²³³ ²³⁹ The quality improvement support for private hospitals through the *Manyata* certification resulted in significant improvements in the overall quality scores of the facilities.²⁴¹

The accreditation of health service providers linked to insurance payments in the Philippines improved quality scores among physicians in both public and private hospitals.²³⁸ Studies based on quality certification programmes were found in Egypt,²³⁶ India²³² and Tanzania.²³⁷ In Ethiopia, clinical and administrative standards implementation improved quality in all areas assessed.²³⁴ The results from these four studies were heterogeneous, with Gold Star certification of family planning clinics in Egypt showing significantly improved availability of family planning products and quality of service provision.²³⁶ The Safe-Care certification in Tanzania did not lead to improved clinical quality.²³⁷ The overall impact of National Quality Assurance Standards (NQAS) certification in India was low, though structural aspects of the quality, such as infrastructure, human resources and supplies, improved.²³²

Multiple governance domains

Sixteen studies included in this review implemented interventions across multiple governance domains.^{243–258} Studies from the Philippines,²⁵⁰ South Africa²⁴³ and Madagascar²⁴⁷ show remarkably positive effects on clinical quality, utilisation and health outcomes. CCT and the expansion of the Family Health Programme in Brazil resulted in a significant reduction in perinatal mortality rate over 12 years.²⁴⁹ Decentralisation and regulatory changes in Indonesia did not significantly improve the QoC for prenatal and adult care. They led to inequities in the distribution of health human resources.²⁴⁵

The effects of several health governance interventions, including hospital accreditation, the introduction and subsequent withdrawal of PBIs, and the introduction of user fees, are reported in the study from Egypt.²⁴⁶ Health insurance combined with local-level leadership for health sector reforms such as improved infrastructure, supplies, human resource development, service delivery, accountability and regulatory oversight in the Philippines resulted in increased uptake of institutional deliveries and a reduction in maternal mortality.²⁵⁰ In Nigeria, the combination of health insurance and facility upgrades increased hospital deliveries but did not significantly impact maternal mortality.²⁴⁴

A social franchising intervention, along with free vouchers, training and accreditation of providers in Pakistan, reported high levels of user satisfaction, increased uptake of family planning services, and trust in providers.²⁵⁴ A participatory community-led health

system intervention and quality improvement initiative in Tanzania significantly reduced the proportion of women experiencing disrespect and abuse during childbirth and improved client satisfaction.²⁵²

A combination of health insurance and franchise midwife clinics in the Philippines showed increased prenatal care, early initiation of prenatal care and facility births. The visits to franchise midwife clinics did not improve prenatal care standards.²⁵¹

Contracting health services to the private sector and PBF in Cambodia led to a shift from delivery at home and private clinics to public health facilities. This change, however, did not translate into improved neonatal health outcomes due to deficiencies in the QoC at public facilities.²⁵³ Supervision and incentives in the form of salary top-ups and housing arrangements to improve the quality of integrated management of childhood illnesses showed that the incentives were more effective in improving quality and patient satisfaction.²⁴⁸

Implementing SafeCare accreditation standards and health system improvements improved overall QoC standards and compliance with clinical protocols for surgery, anaesthesia and overall outpatient services in Nigeria.²⁵⁵ Regulation of fees and health insurance reduced hospital admission rates for ambulatory care-sensitive conditions for hypertension in Ghana.²⁵⁶ At-scale implementation of Every Mother Every Newborn Quality Improvement standards, including better information and monitoring and community engagement, improved compliance with maternal and newborn clinical standards, improved patient rights and better health outcomes for mothers and newborns in Bangladesh, Ghana and Tanzania.²⁵⁷

DISCUSSION

There is growing support for enhancing the quality of healthcare delivered in LMICs. Some recent global guidelines and publications supported LMICs in developing health policies and reform initiatives emphasising quality and safety in healthcare.^{3 9 21 259 260} However, the efforts to establish a strong evidence base to inform and evaluate such initiatives remain inadequate. This review was able to map the available evidence linking governance interventions to impacts on QoC. The study has also pointed to areas where more robust research may be required.

This review identified a stronger evidence base linking improved QoC with health financing, private sector partnerships and community participation and engagement strategies. Studies related to leadership, system design, information and monitoring, and accountability and transparency are limited. Though one of the earlier reviews highlighted the potential links between leadership interventions and healthcare quality,¹¹ the evidence for a causal relationship between governance initiatives and health system performance is lacking, which makes it difficult for governments and donors to make investment decisions.^{11 59} As previously noted by a review, there needs tobe more research evidence on the effectiveness of strategies involving legislation and regulatory mechanisms to improve health service quality.²² Approaches involving an appropriate constellation of governance interventions involving demand and supply-side financing, accreditation and accountability mechanisms offer better prospects of improving QoC.

A wide range of factors influenced the achievement of positive impacts on quality. These include health system context, levels of quality at baseline, contextualisation of the intervention designs, acceptability of the intervention by the community, providers and stakeholders, quality of implementation, availability of other health systems inputs such as additional donor support, duration of implementation, technical support available, completeness and reliability of data, and the design and robustness of the evaluations. An important observation from this evidence-mapping exercise is the heterogeneity of results from similar interventions in multiple contexts. The broader social, political and economic contexts and the overall national governance environment also have considerable influence on the governance of QoC, which remains underinvestigated. Therefore, it is essential for studies evaluating the impacts of governance approaches on QoC to analyse and report the organisational and contextual factors influencing the outcomes. The causal pathways of how governance interventions lead to positive impacts on QoC also need to be better analysed and explained.

The findings presented are consistent with the conclusions of some of the earlier reviews on specific interventions. Previous reviews on the impacts of PBF have noted improvements in utilisation but inconclusive evidence on its effects on quality outcomes.³⁴ A review of women's groups' participation and learning significantly impacted maternal and newborn survival.³⁵ Other reviews reported inconclusive evidence for the effectiveness of hospital accreditation on quality and patient safety outcomes.^{47 261}

Studies from high-income country contexts similarly indicate the importance of upstream governance and management practices influencing QoC.²⁶² The findings from a review of governance and leadership in seven developed countries show greater emphasis on evidence-based priority setting and performance monitoring. At the same time, uncertainty remains on optimal mechanisms for accountability.²⁶³

The main strength of this review is that it has strung together a range of governance strategies and interventions to analyse their impacts on healthcare quality at the service delivery level. This review has several limitations. First, there is no agreed-upon definition or framework that identifies all the governance functions or interventions to improve QoC. The governance interventions identified in this review are not an exhaustive list of potential interventions to improve quality. Second, the health systems operate in complex and highly variable environments. The impact of the interventions on QoC is also influenced by organisational, social and relational factors such as social norms, trust and values.¹⁷²⁶⁴ This review did

not analyse the interactions and relationships of these factors and their influence on quality, which is one of the limitations. Third, the heterogeneity in the design and metrics used to measure quality limits the comparability across studies. This has been identified as a challenge in a recent systematic review of the impacts of PPP on QoC.⁴⁶ Most studies limit their evaluations to changes in structural aspects of quality or utilisation of services, while many others use composite scores for overall quality of services.

The study findings will be valuable to inform future research priorities, including the need for a harmonised approach to selecting indicators for measurement while evaluating the impact of interventions on healthcare quality. This review is of broader relevance to governments, policy-makers and programme managers, donors and other development partners working to improve healthcare services in LMICs.

Conclusion

We identified more robust evidence linking improved QoC with health financing, private sector partnerships and community participation and engagement strategies. The evidence base related to leadership, system design, information and monitoring, and accountability and transparency needs to be improved. More robust evaluations of policy and health reform initiatives intended to impact QoC are required. Studies could use a more harmonised measurement framework, which incorporates aspects of care processes and quality impacts in their evaluations.

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- 257 Manu A, Billah SM, Williams J, *et al.* Institutionalising maternal and newborn quality-of-care standards in Bangladesh, Ghana and Tanzania: a quasi-experimental study. *BMJ Glob Health* 2022;7:e009471.
- 258 Shepard DS, Halasa-Rappel YA, Zeng W, et al. Cost-effectiveness of expanding access to primary health care in rural Rwanda by adding laboratory-equipped health posts: A prospective, controlled study. Am J Trop Med Hyg 2023;108:1042–51.
- 259 World Health Organization. Health systems governance for universal health coverage action plan: Department of health systems governance and financing. 2014.

- 260 World Health Organization. Handbook for national quality policy and strategy: a practical approach for developing policy and strategy to improve quality of care. 2018.
- 261 Alkhenizan A, Shaw C. Impact of accreditation on the quality of Healthcare services: a systematic review of the literature. *Ann Saudi Med* 2011;31:407–16.
- 262 Tsai TC, Jha AK, Gawande AA, et al. Hospital board and management practices are strongly related to hospital performance on clinical quality Metrics. *Health Affairs* 2015;34:1304–11.
- 263 Smith PC, Anell A, Busse R, et al. Leadership and governance in seven developed health systems. *Health Policy* 2012;106:37–49.
- 264 Topp SM. The lancet global health Commission on high quality health systems-where's the complexity? *Lancet Glob Health* 2017;5:S2214-109X(17)30176-6.

Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) Checklist

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	ON FAGE #
TITLE			
Title	1	Identify the report as a scoping review.	3
ABSTRACT			
Structured summary	2	Provide a structured summary that includes (as applicable): background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions that relate to the review questions and objectives.	
INTRODUCTION			4, rows 20-38
Rationale	3	Describe the rationale for the review in the context of what is already known. Explain why the review questions/objectives lend themselves to a scoping review approach.	4.5
Objectives	4	Provide an explicit statement of the questions and objectives being addressed with reference to their key elements (e.g., population or participants, concepts, and context) or other relevant key elements used to conceptualize the review questions and/or objectives.	4-5
METHODS			
Protocol and registration	5	Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number.	5, rows 18-19
Eligibility criteria	6	Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale.	5, rows 23-33
Information sources*	7	Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed.	5, rows 35-48
Search	8	Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated.	30
Selection of sources of evidence†	9	State the process for selecting sources of evidence (i.e., screening and eligibility) included in the scoping review.	5
Data charting process‡	10	Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been tested by the team before their use, and whether data charting was done independently or in duplicate) and any processes for obtaining and confirming data from investigators.	5-6
Data items	11	List and define all variables for which data were sought and any assumptions and simplifications made.	
Critical appraisal of individual sources	12	If done, provide a rationale for conducting a critical appraisal of included sources of evidence; describe the methods used and how this information was used in any	6
or evidences		data synthesis (if appropriate).	NA
Synthesis of results	13	Describe the methods of handling and summarizing the data that were charted.	



St. Michael's Inspired Care. Inspiring Science. 6, rows 10-25 1

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED	
RESULTS				
Selection of sources of evidence	14	Give numbers of sources of evidence screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally using a flow diagram.	6-7	
Characteristics of sources of evidence	15	For each source of evidence, present characteristics for which data were charted and provide the citations.	NA	
Critical appraisal within sources of evidence	16	If done, present data on critical appraisal of included sources of evidence (see item 12).	Supplemer	ntal
Results of individual sources of evidence	17	For each included source of evidence, present the relevant data that were charted that relate to the review questions and objectives.	file 4, Page 40-67 7-14	əs
Synthesis of results	18	Summarize and/or present the charting results as they relate to the review questions and objectives.		
DISCUSSION			14-15	
Summary of evidence	19	Summarize the main results (including an overview of concepts, themes, and types of evidence available), link to the review questions and objectives, and consider the relevance to key groups.	105	~ ~ ~
Limitations	20	Discuss the limitations of the scoping review process.	165, rows 2	26-39
Conclusions	21	Provide a general interpretation of the results with respect to the review questions and objectives, as well as potential implications and/or next steps.	15, rows 4	6-55
FUNDING				
Funding	22	Describe sources of funding for the included sources of evidence, as well as sources of funding for the scoping review. Describe the role of the funders of the scoping review.	15, rows 5	7-59

JBI = Joanna Briggs Institute; PRISMA-ScR = Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews.

* Where *sources of evidence* (see second footnote) are compiled from, such as bibliographic databases, social media platforms, and Web sites.

[†] A more inclusive/heterogeneous term used to account for the different types of evidence or data sources (e.g., quantitative and/or qualitative research, expert opinion, and policy documents) that may be eligible in a scoping review as opposed to only studies. This is not to be confused with *information sources* (see first footnote).
[‡] The frameworks by Arksey and O'Malley (6) and Levac and colleagues (7) and the JBI guidance (4, 5) refer to the process of data extraction in a scoping review as data charting.

§ The process of systematically examining research evidence to assess its validity, results, and relevance before using it to inform a decision. This term is used for items 12 and 19 instead of "risk of bias" (which is more applicable to systematic reviews of interventions) to include and acknowledge the various sources of evidence that may be used in a scoping review (e.g., quantitative and/or qualitative research, expert opinion, and policy document).

From: Tricco AC, Lillie E, Zarin W, O'Brien KK, Colquhoun H, Levac D, et al. PRISMA Extension for Scoping Reviews (PRISMAScR): Checklist and Explanation. Ann Intern Med. 2018;169:467–473. <u>doi: 10.7326/M18-0850</u>.



St. Michael's Inspired Care. Inspiring Science.

Health System Governance	Quality of Care	Geographies
(AND)	(AND)	
"health care" or	"quality of care" or	Afghanistan OR Angola OR Albania OR
"health care delivery" or	"quality improvement" or	Argentina OR Armenia OR "American
"health care services" or	"quality of health care" or	Samoa" OR Azerbaijan OR Burundi OR
"health system" or	"quality assurance" or	Benin OR "Burkina Faso" OR Bangladesh
"health system governance" or	"quality control" or	OR Bulgaria OR "Bosnia Herzegovina" OR
"health stewardship" or	"total quality management"	Belarus OR Belize OR Bolivia OR Brazil
"health policy" or	or "continuous quality	OR Bhutan OR Botswana OR "Central
"leadership" or	improvement"	African Republic" OR China OR "Côte
"health services		d'Ivoire" OR Cameroon OR "Congo
administration" or		Democratic Republic" OR "Congo
"organization and		Republic" OR Colombia OR Comoros OR
administration" or		"Cabo Verde" OR "Costa Rica" OR Cuba
"universal health care" or		OR Djibouti OR Dominica OR "Dominican
"universal health coverage" or		Republic" OR Algeria OR Ecuador OR
"accountability" or		Egypt OR Eritrea OR Ethiopia OR Fiji OR
"health legislation" or		Micronesia OR Gabon OR Georgia OR
"government regulation" or		Ghana OR Guinea OR Gambia OR "The
"quality policy" or		Gambia" OR "Guinea-Bissau" OR
"quality strategy" or		"Equatorial Guinea" OR Grenada OR
"patient participation" or		Guatemala OR Guyana OR Honduras OR
"stakeholder participation" or		Haiti OR Indonesia OR India OR Iran OR
"provider network" or		"Islamic Republic of Iran" OR Iraq OR
"empanelment" or		Jamaica OR Jordan OR Kazakhstan OR
"pay for performance" or		Kenya OR "Kyrgyz Republic" OR
"performance-based		Cambodia OR Kiribati OR "Lao PDR" OR
financing" or		Laos OR Lebanon OR Liberia OR Libya
"clinical audit" or		OR "St. Lucia" OR "Saint Lucia" OR "Sri
"accreditation" or		Lanka" OR Lesotho OR Morocco OR
"licensing" or		Moldova OR Madagascar OR Maldives OR
"safety standard*" or		Mexico OR "Marshall Islands" OR "North
"inspection" or		Macedonia" OR Mali OR Myanmar OR
"minimum quality" or		Montenegro OR Mongolia OR
"safety protocol" or		Mozambique OR Mauritania OR Mauritius
"clinical competence" or		OR Malawi OR Malaysia OR Namibia OR
"public report*" or		Niger OR Nigeria OR Nicaragua OR Nepal
"provider reimbursement" or		OR Pakistan OR Panama OR Peru OR
"strategic purchasing" or		Philippines OR "Papua New Guinea" OR
"health information" or		Korea OR "Democratic People's Republic
"quality of care data" or		of Korea" OR Paraguay OR "West Bank
"quality measurement" or		and Gaza" OR Romania OR "Russian
"transparency" or		Federation" OR Rwanda OR Sudan OR
"capacity development" or		Senegal OR "Solomon Islands" OR "Sierra
"ethics review" or		Leone" OR "El Salvador" OR Somalia OR

Supplemental file 2: Generic search strategy

"task shift*" or	Se	erbia OR "South Sudan" OR "São Tomé
"consensus building" or	an	nd Principe" OR Suriname OR Eswatini
"reward*" or	OI	R "Syrian Arab Republic" OR Syria OR
"recognition" or	Ch	had OR Togo OR Thailand OR Tajikistan
"patient safety" or	OF	R Turkmenistan OR "Timor-Leste" OR
"public private partnership" or	To	onga OR Tunisia OR Turkey OR Tuvalu
"private sector partnership" or	OI	R Tanzania OR Uganda OR Ukraine OR
"private sector engagement"	Uz	zbekistan OR "St. Vincent and the
	Gr	renadines" OR "Saint Vincent" OR
	Ve	enezuela OR Vietnam OR Vanuatu OR
	Sa	amoa OR Kosovo OR Yemen OR "South
	Af	frica" OR Zambia OR Zimbabwe
	OI	R
	"le	low-income countries" or
	"le	low-and-middle-income-countries" or
	"L	LMIC*" or
	"m	middle-income-countries" or "developing
	co	ountries" or
	"le	less developed countries" or
	"le	least developed countries" or "developing
	со	ountries" or
	"L	LIC" or
	"L	LDC" or
	"d	developing countries" or
	"le	least developed countries" or
	"u	under developed nation" or "under-
	de	eveloped nation" or
	"tł	third world countries" or
	"tł	third world nation" or
	"d	developing nation" or
	"le	less developed nation" or
	"le	less-developed nation"

Supplemental file 3: List of excluded papers with reason for exclusion

SL No	Article	Reason for
1	Dale FM Performance-based payments provider motivation and quality of	Wrong outcomes
1	care in Afghanistan. Ann Arbor: The Johns Hopkins University: 2014.	wrong outcomes
2	Vieira-Meyer A, Machado M, Gubert FA, Morais APP, Paula Sampaio Y,	Wrong outcomes
	Saintrain MVL, et al. Variation in primary health care services after	0
	implementation of quality improvement policy in Brazil. Fam Pract.	
	2020;37(1):69-80.	
3	Hirschhorn LR, Baynes C, Sherr K, Chintu N, Awoonor-Williams JK,	Wrong outcomes
	Finnegan K, et al. Approaches to ensuring and improving quality in the	
	A frican Health Initiative Partnership programs BMC Health Services	
	Research. 2013:13(SUPPL.2).	
4	Dhamanti I, Leggat S, Barraclough S, Rachman T. Factors contributing to	Wrong outcomes
	under-reporting of patient safety incidents in Indonesia: Leaders'	0
	perspectives. F1000Research. 2022;10.	
5	WA M'NABEA L. Governance accountability mechanisms as a determinant	Wrong outcomes
	of delivery of quality health services in Kenyatta National Hospital, Kenya:	
6	KeMU; 2020. Ngo DKL Sherry TB Bauhoff S Health system changes under pay	Wrong outcomes
0	formerformance: The effects of Rwanda's national programme on facility	wrong outcomes
	inputs. Health Policy and Planning. 2017;32(1):11-20.	
7	Baduy RS, Macruz Feuerwerker LC, Zucoli M, Borian JT. Healthcare	Wrong outcome
	regulation and healthcare management as tools to assure comprehensiveness	-
	and equity in health. Cadernos De Saude Publica. 2011;27(2):295-304.	
8	Marquez L, Madubuike C. Country experience in organizing for quality:	Wrong outcome
0	Chile. QA Brief. 1999;8(1):6-8.	***
9	Onwujekwe O, Mbachu CO, Okeke C, Ezenwaka U, Ogbuabor D,	Wrong outcomes
	Evidence on Health System and Service Delivery Improvements. Health	
	Systems and Reform, 2022:8(2).	
10	Siddigi S, Elasady R, Khorshid I, Fortune T, Leotsakos A, Letaief M, et al.	Wrong outcomes
	Patient Safety Friendly Hospital Initiative: from evidence to action in seven	e
	developing country hospitals. International Journal for Quality in Health	
	Care. 2012;24(2):144-51.	
11	Mansour W. Policy Transfer of Hospital Accreditation to Low-Middle	Wrong outcomes
	MANCHESTER BUSINESS SCHOOL 2018	
12	Wagenaar BH, Hirschhorn LR, Henley C, Gremu A, Sindano N, Chilengi R.	Wrong outcomes
	et al. Data-driven quality improvement in low-and middle-income country	wreng eweenies
	health systems: Lessons from seven years of implementation experience	
	across Mozambique, Rwanda, and Zambia. BMC Health Services Research.	
	2017;17.	
13	Stenson B, Syhakhang L, Lundborg CS, Eriksson B, Tomson G. Private	Wrong outcome
	pharmacy practice and regulation. A randomized trial in Lao P.D.K.	
	2001·17(4)·579-89	
14	Ridde V, Queuille L, Atchessi N, Samb O. Heinmüller R. Haddad S. The	Wrong outcome
	evaluation of an experiment in healthcare user fees exemption for	
	vulnerable groups in Burkina Faso. Field Actions Science Report.	
	2012;8(SPL).	
15	D'Aquino L, Pyone T, Nigussie A, Salama P, Gwinji G, van den Broek N.	Wrong outcome
	Introducing a sector-wide pooled fund in a fragile context: mixed-methods	
	evaluation of the nearth transition fund in Zimbabwe. Binj Open. 2019;9(6).	

16	Rasheed MA, Hussain A, Hashwani A, Kedzierski JT, Hasan BS.	Wrong outcome
	Implementation evaluation of a leadership development intervention for	
	improved family experience in a private paediatric care hospital, Pakistan.	
17	BMC Health Services Research. 2022;22(1):1-17.	***
17	Ejemai Amaize E, Nxumalo N, Ramaswamy R, Ibisomi L, Ihebuzor N,	Wrong outcome
	Eyles J. Effectiveness of the Diagnose-Intervene- verify-Adjust (DIVA)	
	model for integrated primary nearincare planning and performance	
	Nigoria DMI Open 2010:0(2)	
18	Jiang V. Geng O. Haffey I. Douglas F. Improving the quality of care in	Wrong outcome
10	Chinese family planning programme China Popul Today 1994.11(5):5-8	wrong outcome
19	Dao HT Waters H Le OV User fees and health service utilization in	Wrong outcome
	Vietnam: How to protect the poor? Public Health. 2008;122(10):1068-78.	and a second
20	Tabrizi JS, Farahbakhsh M, Iezadi S, Ahari AM. Design and implementation	Wrong outcome
	of pay-for-quality in primary healthcare: A case study from Iran.	8
	Australasian Medical Journal (Online). 2017;10(6):449-60.	
21	Ejemai Amaize E, Nxumalo N, Ramaswamy R, Eyles J. Strengthening	Wrong outcome
	decentralized primary healthcare planning in Nigeria using a quality	_
	improvement model: how contexts and actors affect implementation. Health	
	Policy and Planning. 2018;33(6):715-28.	
22	Olaniran AA, Oludipe M, Hill Z, Ogunyemi A, Umar N, Ayorinde R, et al.	Wrong outcome
	Influence of context on quality improvement priorities: a qualitative study	
	of three facility types in Lagos State, Nigeria. BMJ open quality.	
22	2022;11(1).	W
23	Alhassan KK, Spieker N, van Ostenberg P, Ogink A, Nketian-Amponsan E, de Wit TE Association between beelth worker metivetion and beeltheere	wrong outcome
	quality efforts in Ghana. Hum Resour Health 2013:11:37	
24	Sutherns T Exploring mechanisms for receiving and responding to citizen	Wrong outcome
2.	feedback in LMIC health system: a mixed methods evidence mapping of the	wing outcome
	Western Cape Province of South Africa: Faculty of Health Sciences; 2020.	
25	Falisse J-B, Ndayishimiye J, Kamenyero V, Bossuyt M. Performance-based	Wrong outcome
	financing in the context of selective free health-care: an evaluation of its	-
	effects on the use of primary health-care services in Burundi using routine	
	data. Health Policy and Planning. 2015;30(10):1251-60.	
26	Cavalcanti P, Fernandez M, Junior GDG. Government-academia	Wrong outcome
	cooperation in the Brazilian National Health System: an analysis of the	
	National Program for Access and Quality Improvement in Primary Care.	
26	Revista de Administração Publica. 2022;56(2):291-308.	When a system of
20	developing world. Ann Arbor: Boston University: 2013	wrong outcome
28	Maeda Δ Evaluating the effectiveness of user fee increase in improving the	Wrong outcome
20	quality of care: Government primary health care services in Indonesia. Ann	wrong outcome
	Arbor: The Johns Hopkins University; 2000.	
29	Nyawira L, Tsofa B, Musiega A, Munywoki J, Njuguna RG, Hanson K, et	Wrong outcome
	al. Management of human resources for health: implications for health	-
	systems efficiency in Kenya. BMC Health Services Research. 2022;22(1).	
30	Alhassan RK, Nketiah-Amponsah E, Spieker N, Arhinful DK, de Wit TFR.	Wrong outcome
	Assessing the Impact of Community Engagement Interventions on Health	
	Worker Motivation and Experiences with Clients in Primary Health	
21	racinities in Ghana: A Kandomized Cluster Irial. Plos One. 2016;11(7).	Waaaaa
51	Ampoint E, Agyer-Ballour P, Edusei A, Novignon J, Artnur E. Strategic Health Durchasing Drograss Manning: A Spotlight on Chang's National	wrong outcome
	Health Insurance Scheme Health Systems and Reform 2022-8(2)	
32	Abrahams Z. Jacobs Y. Mohlamonyane M. Roisits S. Schneider M.	Wrong outcome
52	Honikman S, et al. Implementation outcomes of a health systems	, , iong outcome
	strengthening intervention for perinatal women with common mental	
	disorders and experiences of domestic violence in South Africa: Pilot	

	feasibility and acceptability study. BMC Health Services Research. 2022;22(1).	
33	Schuele E, MacDougall C. The missing bit in the middle: Implementation of the Nationals Health Services Standards for Papua New Guinea. PLoS ONE. 2022;17(6 June).	Wrong outcome
34	Abuosi AA, Poku CA, Attafuah PY, Anaba EA, Abor PA, Setordji A, et al. Safety culture and adverse event reporting in Ghanaian healthcare facilities: Implications for patient safety. Plos one. 2022;17(10):e0275606.	Wrong outcome
35	Caldas BDN, Portela MC, Singer SJ, Aveling EL. How Can Implementation of a Large-Scale Patient Safety Program Strengthen Hospital Safety Culture? Lessons From a Qualitative Study of National Patient Safety Program Implementation in Two Public Hospitals in Brazil. Medical Care Research and Review. 2022;79(4):562-75.	Wrong outcome
36	Dohmen P, De Sanctis T, Waiyaiya E, Janssens W, Rinke de Wit T, Spieker N, et al. Implementing value-based healthcare using a digital health exchange platform to improve pregnancy and childbirth outcomes in urban and rural Kenya. Frontiers in Public Health. 2022;10.	Wrong outcome
37	Sitienei J, Manderson L, Nangami M. Community participation in the collaborative governance of primary health care facilities, Uasin Gishu County, Kenya. PloS one. 2021;16(3):1.	Wrong outcome
38	Desta BF, Abitew A, Beshir IA, Argaw MD, Abdlkader S. Leadership, governance and management for improving district capacity and performance: the case of USAID transform: primary health care. BMC Family Practice. 2020;21(1):1-7.	Wrong outcome
39	Atnafu DD, Tilahun H, Alemu YM. Community-based health insurance and healthcare service utilisation, North-West, Ethiopia: a comparative, cross-sectional study. Bmj Open. 2018;8(8).	Wrong outcome
40	Kaseje D, Olayo R, Musita C, Oindo CO, Wafula C, Muga R. Evidence- based dialogue with communities for district health systems' performance improvement. Global Public Health. 2010;5(6):595-610.	Wrong outcome
41	Robinson RS, Adams T. Building social accountability to improve reproductive, maternal, newborn and child health in Nigeria. International Journal for Equity in Health. 2022;21(1):1-18.	Wrong outcome
42	Belaid L, Ridde V. An implementation evaluation of a policy aiming to improve financial access to maternal health care in Djibo district, Burkina Faso. Bmc Pregnancy and Childbirth. 2012;12.	Wrong outcome
43	Dwicaksono A, Fox AM. Does Decentralization Improve Health System Performance and Outcomes in Low- and Middle-Income Countries? A Systematic Review of Evidence From Quantitative Studies. Milbank Quarterly. 2018;96(2):323-68.	Wrong outcome
44	Shawar YR, Djellouli N, Akter K, Payne W, Kinney M, Mwaba K, et al. Factors Shaping Network Emergence: A Cross-Country Comparison of Quality of Care Networks in Bangladesh, Ethiopia, Malawi, and Uganda. Cold Spring Harbor: Cold Spring Harbor Laboratory Press; 2023.	Wrong outcome
45	Seblewengel Lemma A, Callie Daniels H, Asebe Amenu T, Sarker M, Akter K, Nakidde C, et al. Opportunities to sustain a multi-country quality of care network: lessons on the actions of four countries Bangladesh, Ethiopia, Malawi, and Uganda. Cold Spring Harbor: Cold Spring Harbor Laboratory Press; 2023.	Wrong outcome
46	Fidele Kanyimbu M, Djellouli N, Akter K, Sarker M, Asebe Amenu T, Mwandira K, et al. Individual and organisational interactions, learning and information sharing in a multi-country implementation-focused quality of care network for maternal, newborn and child health: a social network analysis. Cold Spring Harbor: Cold Spring Harbor Laboratory Press; 2023.	Wrong outcome
47	Robinson RS, Adams T. Building social accountability to improve reproductive, maternal, newborn and child health in Nigeria. International Journal for Equity in Health. 2022;21(1):1-18.	Wrong outcome

48	Ivers N, Jamtvedt G, Flottorp S, Young JM, Odgaard-Jensen J, French SD,	Wrong
	et al. Audit and feedback: effects on professional practice and healthcare	intervention
	outcomes. Cochrane Database of Systematic Reviews. 2012(6).	
49	Pratiwi AB, Padmawati RS, Willems DL. Behind open doors: Patient	Wrong
	privacy and the impact of design in primary health care, a qualitative study	intervention
	in Indonesia. Front Med (Lausanne). 2022;9:915237.	
50	Tancred T. Implementation of community-level quality improvement in	Wrong
	southeastern tanzania: a mixed methods process evaluation of what worked,	intervention
	what didn't, and why [Ph.D.]. Ann Arbor: University of London, London	
	School of Hygiene and Tropical Medicine (United Kingdom); 2016.	
51	Barber SL, Gertler PJ, Harimurti P. The contribution of human resources for	Wrong
	health to the quality of care in Indonesia. Health Affairs. 2007;26(3):w367-	intervention
	w79.	
52	Ochieng BM, Lattanzi G, Choge M, Kaseje DCO, Thind AS. Effect of	Wrong
	health systems strengthening in influencing maternal and neonatal health	intervention
	outcomes in Bungoma County, Kenya. Pan African Medical Journal.	
	2022;41.	
53	Waiswa P, Wanduru P, Okuga M, Kajjo D, Kwesiga D, Kalungi J, et al.	Wrong
	Institutionalizing a regional model for improving quality of newborn care at	intervention
	birth across hospitals in Eastern Uganda: A 4-year story. Global Health	
	Science and Practice. 2021;9(2):365-78.	
54	Tancred T, Mandu R, Hanson C, Okuga M, Manzi F, Peterson S, et al. How	Wrong
	people-centred health systems can reach the grassroots: Experiences	intervention
	implementing community-level quality improvement in rural Tanzania and	
	Uganda. Health Policy and Planning. 2018;33(1):e1-e13.	
55	Kim JH, Bell GA, Bitton A, Desai EV, Hirschhorn LR, Makumbi F, et al.	Wrong
	Health facility management and primary health care performance in	intervention
	Uganda. BMC Health Services Research. 2022;22(1).	
56	Agarwal S, Glenton C, Tamrat T, Henschke N, Maayan N, Fønhus MS, et al.	Wrong
	Decision-support tools via mobile devices to improve quality of care in	intervention
	primary healthcare settings. Cochrane Database of Systematic Reviews.	
57	2021(7).	117
57	weldearegay HG, Kansay AB, Goderay H, Petrucka P, Mednanyle AA. The	wrong
	enect of calchment based mentorship on quality of maternal and newborn	intervention
	care in primary nearin care facilities in figray Region, Northern Ethiopia: A	
50	Controlled quasi-experimental study. PLOS ONE. 2022, 17(11 November).	Wrong
30	transmithed for the second sec	intervention
	Nutrition & Metabolism suppl Supplement 1, 2023:70:256	milervention
50	Shahraz S. Shahin S. Farzi V. Modirian M. Shahhal N. Azmin M. at al. Iran	Study protocol
39	Quality of Care in Medicine Program (IOCAMP): Design and Outcomes	Study protocol
	Archives of Iranian Medicine 2023.26(3):126-37	
60	Marquez I. Madubuike C. Country experience in organizing for quality	Discussion
	Niger OA Brief 1999.8(1):12-5	naner
61	Marquez I. Madubuike C. Country experience in organizing for quality	Discussion
	Ecuador. OA brief. 1999:8(1):9-11.	paper
62	Zeng W. Gheorghe A. Nair D. A discussion naner of health system level	Discussion
02	approaches to addressing quality of care in low-and middle-income	paper
	countries. World Bank, September, 2016.	r T
63	A "client perspective" helps improve services. Netw Res Triangle Park N C	Discussion
	1998:19(1):10-1.	paper
64	De Walque, Kandpal E. Reviewing the evidence on health financing for	Discussion
	effective coverage: do financial incentives work? BMJ Global Health	paper
	2022;7(9)	1
65	Marquez L, Madubuike C. Country experience in organizing for quality:	Discussion
	Zambia. QA Brief. 1999:8(1):16-9.	paper
•	· · · · · · · · · · · · · · · · · · ·	

66	Ogunbekun I, Adeyi O, Wouters A, Morrow RH. Costs and financing of	Duplicate paper
	improvements in the quality of maternal health services through the Bamako	
	Initiative in Nigeria. Health Policy Plan. 1996;11(4):369-84.	
67	Colbourn T, Pulkki-Brannstrom AM, Nambiar B, Kim S, Bondo A, Banda	Duplicate (cost-
	L, et al. Cost-effectiveness and affordability of community mobilisation	effectiveness
	through women's groups and quality improvement in health facilities	analysis)
	(MaiKhanda trial) in Malawi. Cost effectiveness and resource allocation.	• /
	2015;13(1).	
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103	Tan SY, Melendez-Torres G. Do prospective payment systems (PPSs) lead to desirable providers' incentives and patients' outcomes? A systematic review of evidence from developing countries. Health policy and planning. 2018;33(1):137-53.	Review paper
104	Tello JE, Barbazza E, Waddell K. Review of 128 quality of care mechanisms: A framework and mapping for health system stewards. Health Policy. 2020;124(1):12-24.	Review paper
105	Wiysonge CS, Paulsen E, Lewin S, Ciapponi A, Herrera CA, Opiyo N, et al. Financial arrangements for health systems in low-income countries: an overview of systematic reviews. Cochrane Database of Systematic Reviews. 2017(9).	Review paper
106	Wiysonge CS, Abdullahi LH, Ndze VN, Hussey GD. Public stewardship of private for-profit healthcare providers in low-and middle-income countries. Cochrane database of systematic reviews. 2016(8).	Review paper
107	Ahmed SM, Rawal LB, Chowdhury SA, Murray J, Arscott-Mills S, Jack S, et al. Cross-country analysis of strategies for achieving progress towards global goals for women's and children's health. Bulletin of the World Health Organization. 2016;94(5):351-61.	Review paper
108	Lodenstein E, Dieleman M, Gerretsen B, Broerse JEW. Health provider responsiveness to social accountability initiatives in low- and middle- income countries: a realist review. Health Policy and Planning. 2017;32(1):125-40.	Review paper
109	Bitton A, Fifield J, Ratcliffe H, Karlage A, Wang H, Veillard JH, et al. Primary healthcare system performance in low-income and middle-income countries: a scoping review of the evidence from 2010 to 2017. BMJ Global Health. 2019;4.	Review paper

Supplemental file 4: Summary of results by governance domains

Table 1: Summary of Findings on Leadership

Intervention	Care Processes	Quality Impacts	Country Contexts and
Government stewardship of small private providers, including pharmacies and chemical shops	 Significant association between clinic's stewardship index score and quality of care (QoC) score High incorrect use of antibiotics Majority of facilities performed less than half of necessary services. Low proportion of providers correctly diagnosed acute gastroenteritis, and correctly identified the problem as being of viral aetiology 	Not Reported (NR)	Ghana & Kenya (60)
National quality policy and strategy	 Emphasis on quality and accreditation in national health plans Improved licensing of healthcare professionals and organizations investment in health information systems 	NR	Lebanon and Jordan (58)
Development, implementation, and self- assessment of governance action plan	 Significant increase in 8 of 10 composite quality indicators No impact on Tetanus Toxoid (TT) vaccination to pregnant mothers 	 No significant increase in Tuberculosis (TB) case detection rate and TB cure Increased composite outcome No change in new Family Planning (FP) use rate Achieved less than 100 percent of the target for postnatal care (PNC) visits, institutional delivery; and more than 100 percent of target for antenatal care (ANC) and Pentavalent-3 (Penta-3) immunisation Increased outpatient department (OPD) visits per person 	Afghanistan (59)

Table 2: Summary of Findings on System Design

Intervention	Care Processes	Quality Impacts	Country Contexts &
			References
Decentralised priority	Indonesia:	Indonesia:	- Indonesia (65)
setting, planning and	 Poor clients not excluded from using the hospitals 	 Additional costs incurred for drugs 	- Nigeria (68)
management		Nigeria:	- Kenya (66)

	 Increased availability of services and the positive attitude of hospital staff Improved satisfaction with cleanliness, medical and inpatient services, and administrative service <i>Nigeria:</i> Inadequate availability of basic equipment, drugs, and supplies made patients very dissatisfied with the service Patient perceived satisfactory technical QoC Kenya: Low access to level 3 care to poor living in remote areas Improper staff attitude due to excess workload and stress Perceived low quality of services provided at government facilities because of lack of drugs and supplies Clinician errors were reported due to tiredness and lack of support Long patient waiting times Improved accessibility to services through home visits by Community Health Volunteers (CHV) Increased availability of primary health facilities 	 Low levels of utilisation of services Continuation of user fees resulted in worsened 'rich-poor divide' <i>Kenya:</i> NR <i>Sudan:</i> NR 	- Sudan (67)
Strengthening	Tanzania:	Tanzania:	- Tanzania (64)
management systems	- Nine-told increase in the provision of treatment for sexually	NK Nigeria:	- Nigeria (63)
	- Improved client perceptions of service quality	NR	
	- Improved health infrastructure and community participation		
	in health service management		
	- High levels of client satisfaction with services		
	Nigeria:		
	- Human resources for health and coverage of immunisation		
	unchanged Higher number of pregnant women screened for Unmen		
	Immunodeficiency Virus (HIV)		
Local level policy	Indonesia:	Indonesia:	- China (62)
initiatives (No-Class	- Increased use of standards and guidelines for reduction in	- Significantly increased use of hospital by poor	- Indonesia (61)
ward, treatment-before-	medication errors, fulfilling patient satisfaction and safety	and non-poor patients	
deposit)	- Accessible information		

- Friendly and dignified treatments by providers	- Trustful relationship between clients and
 Perception of non-discrimination in treatment 	service providers
- Positive user experience among insured and uninsured	China:
- Patients who benefitted from the policy had greater perceived	- High levels of patients' trust in their
service quality	physicians
China:	
NR	

Table 3: Summary of Findings on Accountability and Transparency

Intervention	Care Processes	Quality Impacts	Country Contexts & References
Community Scorecards	 Afghanistan: Low score for the number and cadre of service providers, particularly female providers, water, and power supply, waiting rooms, essential medicines, and equipment High scores (>90%) for provider courtesy and QoC; patient-centredness (qualitative) DR Congo: Perceived increase in access to services, improved patient-provider relationships, improved performance of service providers Improved rapport and fairness by the providers Increased transparency and community participation Improved access resulting from changes in user fee policies and reduced bribes Ghana: Improved client's perception of healthcare quality and availability of drugs Perceived low quality in the provision of information, directional signs in clinics, drug availability, waiting times, and feedback on clients' complaints Improved client experiences Malawi: Higher provision of comprehensive antenatal care counselling, comprehensive antenatal counselling, and 	Afghanistan: - Improved sense of mutual trust between the community and providers (qualitative) DR Congo: NR Ghana: - Enhanced trust, and confidence in healthcare providers Malawi: NR Kenya: NR	References - Afghanistan (72) - DR Congo (75) - Ghana (70) - Malawi (74) - Kenya (76)
	- More home visits of pregnant women by health workers		

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	 <i>Kenya:</i> Clients reported being treated with respect Negative provider behaviours and absenteeism persisted. Long waiting time 		
Community meetings with report cards and citizen voice	 Uganda: Increased use of equipment for assessment of children Improved provision of vitamin A, and child immunisations Significantly improved treatment practices, waiting time, examination procedures, and staff absenteeism India: No change in counselling on danger signs or TT 	 Uganda: Significant increase in the weight of infants Reduction in under-five mortality Higher rates of utilization of OPD services in the treatment facilities India: No effect on maternal and newborn care outcomes No change in the utilization of 4+ ANC 	 Uganda (69) India (73) Cambodia (71)
	 and considering on danget signs of 11 immunisation during ANC <i>Cambodia:</i> Better screening index and counselling index for children Persistent socio-economic disparities 	 <i>Cambodia:</i> Improved service utilisation reported by supervisors 	

Table 4: Summary of Findings on Financing (Demand-side)

Intervention	Care Processes	Quality Impacts	Country Contexts &
			References
Free Maternal Health Care/ Reduction or Abolition of user-fees/ Obstetric Subsidy	 No change in the clinical quality Low quality care for women n admission Providers ill-prepared to deal with the obstetric conditions Low QoC scores for management of the first stage of labour, use of the partograph and for immediate post-partum monitoring of mother and baby Low QoC in hospitals resulted in many potentially avoidable deaths Equity gains for the poorer patients 	 Health facility deliveries increased considerably Statistically non-significant reduction in delivery- related maternal mortality ratio (MMR) Increased numbers of women with hypertensive disease, haemorrhage and those undergoing Caesarean-Section (CS) Increase of women with complications seeking care, and drop in referrals for treatment Variable relationships between health workers and 	Ghana (77-79, 91)
	 Providers more respectful and friendly, and facilities clean High levels of satisfaction with 	clients, ranging from positive to antagonistic	
	 No change in the perceived QoC Most visitors to the rural health centres received drugs and most were satisfied with the QoC Worsened drug availability No change in waiting time, quality of consultation and staff courtesy 	- Mixed response on reduction in costs of seeking care	Zambia (86)

- - -	Technical quality of services improved or unchanged Positive Perception that health workers were hardworking, good, and dedicated to their work Negative perceptions of staff being too few, rude, not available when required, and being unqualified Poorer health workers attitudes in the public health units than the private non-profit facilities	-	Favourable final illness outcomes for most patients who sought care in public, and the private-non- profit-facilities	Uganda (87)
-	Observed and perceived quality increased across facilities but did not differ by fee removal status Improved perceived QoC, did not differ by fee status of the facility.	-	Four-fold increase in utilization at facilities for curative care, but no increase in institutional deliveries Increases in ANC utilization not sustained.	Afghanistan (90)
	Women's perceptions on QoC remained very positive High level of satisfaction in both the intervention and control No difference on satisfaction between rich and poor women High overall satisfaction with waiting times, quality of treatment received, costs of care, and availability of drugs		Significant increase in institutional deliveries Hospitals with the best level of implementation of the subsidy had lowest health care near-misses Reduced household payments for institutional deliveries	Burkina Faso (82, 88)
NR			Small reduction in maternal deaths, small increase in neonatal deaths Significantly increased direct admissions at hospital Significantly more major obstetric interventions Post-operative complications significantly dropped for patients presenting with non-Absolute Maternal Indication	Guinea (80)
	Improved early initiation of ANC and processes of care during ANC and postnatal care (PNC) Almost universal levels of recommended ANC practices Low privacy, poor hygiene, and low consultation time Negative perceptions regarding the queue system, increased waiting time and availability of drugs Moderate levels of satisfaction regarding communication by health workers, staff availability in the delivery rooms and wards, and availability of drugs and supplies Lengthy stay in healthcare facilities were negatively associated with the satisfaction	-	Increased occurrence of complications: ante partum haemorrhage, ruptured uterus, and sepsis Reduced use of public facility-based ANC among better-off women. Positive effects on use of 4+ ANC among both richer and poorer women Reduced use of primary care facilities for ANC	Kenya (81, 83, 89)
-	Very low quality of neonatal care in Benin and Burkina Faso Newborn care quality worse than that of maternity care	-	Increases in skilled birth attendance and CS and a narrowing of inequalities in all four countries	Benin, Burkina Faso, Mali, Morocco (92)

- No evidence of negative effects of	on technical QoC on non-	High burden of perinatal mortality and neonatal near	
targeted services		miss across all facilities	
- High perceptions of the overall q	uality of the services, not -	Significant reductions in financial burden on families	
correlating well with technical Q	oC scores -	Positive trend in CS rates (Benin and Mali)	
- Poor provider-client interpersona	l relationships -	Increase in utilisation rates, reduced CS rates	
	-	(Burkina Faso)	
	-	No change in institutional delivery rates or CS rates	
		(Morocco)	
- Fee exemption policy enabled m	dwives to alert the doctors		Benin (85)
that CS might be needed			
- The indication for CS mentioned	in the records and that		
cited by the women matched in n	nost cases		
- Perceived decline in QoC after th	e fee exemption policy		
- Perceived negligence and a lack	of care and effort to help		
women deliver vaginally.	-		
- Perceived lack respect, bribes, la	ck of information about		
medical treatments and procedure	es, extra charges for non-	Marked reduction in payments for CS; considerable	
authorised mate rials or services,	and neglect	expenses remained for medications for newborn care	
- Low overall quality of maternal l	health services N	٧R	Sierra Leone (84)
- None of the five basic emergency	obstetric care facilities		
were fully compliant with nation	al standards,		
- Quality of ANC better at compre	hensive emergency		
obstetric and newborn care (CEn	NONC) facilities than the		
other facilities, but remained low			
- High availability of delivery serv	ices, but very few had		
delivery rooms, delivery kits or p	oortable water		
 Weaker technical quality of ANC 	care in public facilities		India
than private facilities			(110)
- Low proportion of women report	ing verbal or physical		
abuse			
- Significant difference in percepti	on regarding infrastructure,		
care during and after childbirth			
 care during and after childbirth Free delivery care perceived to b 	e of better quality in the	- Lower perinatal mortality rate (than the State	
 care during and after childbirth Free delivery care perceived to b private sector than in the public s 	e of better quality in the ector	- Lower perinatal mortality rate (than the State average)	
 care during and after childbirth Free delivery care perceived to b private sector than in the public s High level of satisfaction with ca 	e of better quality in the ector re received and positive N	- Lower perinatal mortality rate (than the State average)	Nigeria (95)

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Health insurance	 High satisfaction with health workers' attitude and privacy, cleanliness of facilities and availability of and access to medicine Dissatisfaction due to prolonged waiting-time, the limited scope of coverage, mistreatment, disrespect and abuse, inadequate infrastructure, and bed space Significantly more extensive PNC, and better coverage of child vaccinations Preventive care access to members of health insurance No significant difference in perceptions of quality between insured and uninsured patients 	 The uninsured are more likely to delay seeking care, develop birth complications and experience maternal or foetal death. Perception of financial access to care improved Pregnant women able to antenatal visits and skilled 	Ghana & Cameroon: (97) Ghana (93, 96, 100, 102, 107)
	 No significant difference in patient perceptions of fairness of car, adequacy of resources Higher negative perception of QoC among the insured Higher patient perception that 'treatment is effective for recovery and cure' 	 care at delivery at no cost or very minimal cost Perinatal mortality rate declined by half Deliveries by CS increased Members more likely to be admitted to hospital Non-members continue to face very high payments related to birth complications 	
	 Patients trade off the negative effects on QoC with expected financial gain Reduced income-related inequality in utilisation of services Reduced self-treatment with medicines bought privately Dissatisfaction about long waiting time and staff attitudes Strong, negative correlation between insurance membership and almost all aspects of patient satisfaction. Satisfied with waiting time, provider attitude, advice and skill General impression that patients making direct payments to service providers receive a substantially better service 	- Members consistently paid less than non-members	Vietnam (103)
	 NR Low provision of haemoglobin and urine tests during ANC Majority of women received more ultrasound tests than recommended Many women advised by doctors to take expensive prenatal tests 	 Insurance expansion correlated with a small portion of the mortality reduction at the county level No influence on women's decisions to make prenatal visits High early initiation of ANC and 5+ANC visits High out-of-pocket expenditure among the poor 	Costa Rica (99) China (105)
	 Significantly high patient perceived QoC except for "consultation by the nurse" 	NR	Nigeria (94)

 Patient perceived improvements in availability of trained personnel, nearness to home, availability of drugs, prompt attention and consultation with doctor No significant difference in the levels of satisfaction between the insured and uninsured patients. Satisfied with the availability of doctors and medicines and the recovery by the patient. Dissatisfied due to bad outcome of the therapy 	- Almost all insured and uninsured felt better at the end of the treatment	India (98)
 Positive effect on history taking, tests and examinations performed on the mother, and interpersonal care during PNC Reduction in the proportion of women indicating that waiting time was too long No differential wealth effects noted for any of the significant outcomes Perception that the insured received services more quickly, spent less time queuing at facilities High level of satisfaction with the OoC 	 No effect on the utilisation of ANC, deliveries, PNC, childhood immunisation or FP Community members generally not required to pay for seeking MNC services Most patients appreciated the lower costs of care 	Tanzania (104, 106)
 High level of satisfaction among clients with the health services provided by the self-financed health scheme High satisfaction with diagnostic services, explanation about the prescribed medicine, the surrounding environment of facility and the behaviour of health workers 	NR	Bangladesh (108)
 Improved the accessibility and utilization of healthcare services and improved QoC High perception of technical competence of medical staff Inequity in treatment between insured women and those who pay for the consultation. Longer waiting time for insured patients High overall satisfaction with the prenatal services Complaints about the rudeness of some nurses, and the high price of the delivery kit Improved provision of information on pregnancy, childbirth, and PNC during ANC visits Health workers believed that the insurance scheme improved their ability to provide quality care 	NR	Gabon (101)
 Insurance may improve structural aspects of quality, but unlikely to influence process and outcome measures 	- Improve care experiences of beneficiaries	Zambia (129, 131)

Vouchers	 Positive association between insurance and patient satisfaction, driven by QoC No difference between insured and unsured on perceived responsiveness Improved FP choice of methods, continuity in use, prevention of sexually transmitted infections and cumulative QoC score Improved quality of the explanations given which remained 	 Significantly increased OPD visits NR 	Ethiopia (109, 130) Nicaragua (118)
	 better after the program ended Improved delivery and newborn care practice Women in voucher scheme were least likely to report a problem with any of the quality components Higher rates of early initiation of breastfeeding Improved behaviour of doctors and nurses Perceived improvement in availability of medicines and equipment, performance among providers General satisfaction with the quality of the services Longer waiting time, and poor provider behaviour 	 Increased in 3+ ANC visits, institutional delivery Reduced stillbirths and newborn deaths No difference in maternal death rates, CS rates Significantly lower out-of-pocket expenditures for ANC, PNC, and delivery care 	Bangladesh (115, 124)
	NR	 Significantly higher increase in 3+ ANC use among women in the lowest quintile Significant increases in institutional delivery among poor women 	Pakistan (111)
	NR	 Significant increase in facility births, at least a tenth being new facility users Estimated 20 deaths averted 	Uganda (112)
	 Improved QoC and reduced inequities in the use of reproductive health services Low awareness of FP and gender-based violence recovery services Improved quality of FP counselling and return to fertility High proportion of mothers are not being checked by any provider after delivery. Improved overall maternal health quality scores No changes in quality of newborn care or interpersonal skills domains, or on overall clinical processes Improved rapport during PNC by providers at voucher facilities, lower in public facilities Most women satisfied with their treatment 	 More women at voucher facilities attended for infant immunisations, fewer for PNC Improved coverage of ANC, no effects on PNC for mother or newborn 	Kenya (119, 127, 128)

	 Health workers more committed to ensuring 24-hour services at health centres and to promote institutional deliveries High satisfaction with the services at the health centres Non-users dissatisfied due to poor staff attitudes and extra payments to midwives. 	 Vouchers used for to get free care and for transportation costs Most felt safer when delivering at the health centre; and get their child vaccinated after the delivery 	Cambodia (116)
Conditional Cash Transfer	 Beneficiaries received higher rates of prenatal procedures Significantly higher quality score Low unchanged quality of maternal health services Improved provision of information related to pregnancy. 	NR Increased ANC and facility births Significant negative association between ISV and	Mexico (113) India (Janani Suraksha Vojana, ISV)
	 Improved provision of miorination related to pregnancy- related complications Greater awareness of maternal and newborn care practices No change in the conduct of recommended examinations when women were admitted for delivery No change in the quality of PNC services 	 Significant negative association between JST and SBA outside of a health facility Slight reduction in maternal and newborn complications Reduction of perinatal deaths and neonatal deaths; no change in maternal deaths Perceived low quality of services in public sector health facilities deterred many women from accepting the benefits of JSY Improved treatment-seeking for pregnancy and delivery related complications High coverage of JSY associated with a decrease in CS rate and increase in assisted deliveries The poorest and the least educated women did not consistently benefit from cash payments 	(117, 121, 123)
	NR	 Decline in rural infant mortality, concentrated in the causes such as intestinal and respiratory diseases, and nutritional deficiencies 	Mexico (<i>Progresa</i>): (114)
	NR	 Decline in infant mortality rate (IMR) and postneonatal infant mortality rate (PNMIR), not in neonatal mortality rate (NMR) Increased coverage for child vaccinations and ANC Reduced under-5 mortality rate (U5MR), overall and resulting from poverty-related causes, with significant association with interventions Reduced under-5 mortality resulting from malnutrition Reduction in diarrhoeal diseases and lower respiratory infections 	Brazil (Bolsa Familia, BSF & Family Health Programme, FHP): (122, 125, 126)

	 reduced rates of under-5 admissions to hospital 	
		Nigeria (120)
 Improvements in the quality of delivery care practices Improved interpersonal quality Improved overall satisfaction with care Reduced physical or verbal abuse or mistreatment by the providers 	 Significant increase in institutional deliveries and deliveries assisted by SBA No reduction in preventable complications that led to maternal deaths Some improvements in self-reported health 	

Table 5: Summary of Findings on Financing (Supply-side)

Intervention	Care Processes	Quality Impacts	Country Contexts & References
Pay for performance (P4P)/ Performance- based Financing (PBF)/ Performance-based Incentives (PBI)/ Results-based Incentives (RBI)/ Results-based Financing (RBF)	 Improved compliance with standards Improved prenatal quality Equity gap in the use of facility deliveries reduced Gap between provider knowledge and practice of clinical protocols for ANC Higher skilled providers increased quality more than lower skilled providers in response to the same incentives Improved continuity of care, through improved referral and counter referral mechanisms Improved quantity and quality of clinical activities High overall satisfaction with service, cost of drugs and services, cleanliness, time spent with provider Dissatisfaction with long waiting time 	 No difference in probability of reporting illness with diarrhoea, fever, or acute respiratory infections; or in seeking care Limited impact on volume of services Increased institutional deliveries, CS deliveries, use of contraception, preventive care and growth monitoring Reduction in under-weight and stunting among under-five children 	Rwanda (135, 151, 156, 160, 169, 174, 175, 179)
	 Overall low levels of quality Improved quality of childcare practices, ANC, FP, instructions on caring for sick children Reduced prescription of unnecessary medicines, better history taking, allowing questions, and follow up 	NR	Egypt (155)
	 No effect on overall technical quality Significantly increased patient perceived availability of drugs No negative effect on service quality Compliance with standards low for classic patients, prenatal visits, and postnatal visits. 	 Lower direct payments to health facilities High uptake of births in health facility. Positive impact on most targeted MCH services Improved care-seeking for children's illness Improved curative visits, patient referral, children receiving vitamin A, HIV testing of pregnant women and assisted deliveries 	DR Congo (154, 176, 185)

 Drugs were prescribed to over a third of all patients without examining the patient Improved, but low, provision of iron supplementation and preventive treatment for malaria during pregnancy Improved availability of medicines, perceived QoC, hygiene of health facilities and being respected High proportion of patients understand the diagnosis, next steps, and medications to take 	 No change on use of maternal health services, 3+ ANC, postnatal care, assisted delivery, and family planning Reduced coverage of DPT3 immunization Reduced indirect payments to facilities 	
 Improved overall facility quality score Improved ANC quality especially among the richest No change in timeliness and number of ANC visits Improved blood pressure (BP) measurement and TT vaccinations during pregnancy No change in patient perception of drug availability, respect by providers, or waiting time No significant effect other aspects related to the QoC Improved quality scores of care management, outpatient care, prenatal care, and maternal care, and family planning No effect on laboratory services and material management Reduced satisfaction with waiting times 	 Increased the probability of institutional delivery, ANC, and the use of modern FP No effects on vaccination rates Increased share of patients feeling cured 	Burundi (139-141, 173)
 Incentives alone resulted in significant increase in services Beneficial impacts on quality and no adverse impacts on quality (qualitative) 	- Greater trust in health facilities by the communities more people more willing to seek care in these health facilities (Qualitative)	Haiti (183)
 Increased provision of MNCH services and improved operational management, but no improvement in quality Midwifery capacities perceived to be limited by midwives and other stakeholders 	 Increased overall number of ANC visits Higher coverage in DPT hepatitis 2 and 3, and measles vaccinations 	Cambodia (161)
NR	 Improved general self-reported health No change in the rates of wasting among children 	Philippines (167, 168, 170)
 Significant positive effect on QoC Improved quality of history and physical examinations index, client counselling index and time spent with patients No difference in equity measures Increased overall client satisfaction and perceived QoC Index High satisfaction with explanations, provider respectfulness and facility opening hours 	 No substantial differences in coverage of modern contraception, ANC, skilled birth attendants, PNC, and childhood vaccination 	Afghanistan (148, 177, 178)

 No effect on content of ANC, except in the provision of anti-malarial drug Improved availability of essential drugs and supplies; reduced the stock-out rate of essential drugs such as oxytocin Increase in regular supervision visits Improved health worker attitudes and behaviours with patients Lack of equipment, supplies and adequate staff hampered quality of services Shortened patient waiting times No effect on patient satisfaction with interpersonal care Improved provider kindness during delivery Positive experiences in improving accessibility, availability, affordability, and quality 	 Increase in coverage of institutional deliveries Significantly reduced bypassing of facilities Reduced out-of-pocket expenditures for deliveries 	Tanzania (133, 137, 138, 143)
 Reduced inappropriate prescription of anti-malarial drug 	NR	Kenya (163)
 No effect on prescription of anti-malaria drug to malaria- positive patients 		
 Improved provision of malaria prophylaxis and iron supplements during t pregnancy Positive effects on HIV testing and counselling and pregnant women's initiation on anti-retroviral treatment No effects on counselling for FP service provision or skilled attendance at birth, child immunisation Improved compliance with clinical protocols for monitoring and managing eclampsia Negative effects for use of partograph and active management of third stage labour Improved availability and functionality of equipment, stock of essential drugs No significant effect on women's perceptions of technical care, quality of amenities and interpersonal relations Overall positive effects on women's experiences of care Instances of disrespect and overt abuse continued to overshadow the experiences of care Perception that drugs, equipment, and supplies were readily available Increased workload among staff 	- Limited effects on use of skilled birth attendance	Malawi (142, 157, 162, 188)

 Significant increase in composite process quality index and structural quality index Improvement in correct classification of sick children for general danger signs, treatment of children with respiratory problems and vaccinating when due Improvements in biomedical waste disposal, availability of iron tablets, folic acid, and urine dipsticks Small improvements on staff attitude and operating hour Higher client satisfaction index than control group High satisfaction with privacy, waiting time and cleanliness 		Zimbabwe (144, 149, 164)
 High aggregate satisfaction of health workers and Qoe High aggregate satisfaction score for cleanliness, waiting time and consultation time, hours, courteousness, and perceived competence of staff No effect on client satisfaction for child curative consultations 	 No effect on utilisation of MNCH services apart from increased institutional deliveries 	
 Positive effect on QoC and responsiveness, but no impact on clinical productivity Improved history-taking and physical examination for ANCs No effect on quality of curative consultations Improved quality score at health centre and district hospital Greater level of satisfaction about staff attitude, competence, politeness, staff competence and responsiveness 	- Low outpatient attendance	Benin (159, 166)
 Increased availability of equipment and qualified health workers No impact on the quality of child health consultations or ANC No differences in ANC quality Increase in satisfaction for the ANC visits and visits with children under-5 No effects on quality of delivery or CS in any country No effects on the primary or secondary outcomes in Zambia Limited and variable effects on the utilization and quality of neonatal health care 	 Reduced formal and informal user-fees Significant increases in utilization of child and maternal vaccinations, use of modern FP Significant reduction in out-of-pocket expenditure No effect on any of the health outcomes or intermediate outputs in the pooled analysis No significant impact on neonatal health outcomes, health care utilization or guality 	Cameroon (146) Burundi, Lesotho, Senegal, Zambia, and Zimbabwe (150)
	 Improved facility delivery, ANC utilization or ANC quality among poor women in some countries 	

	- A slight decline in early neonatal death in Zambia	
 Significantly increased QoC of maternal, newborn and child health services Improved initiation of ANC, PNC, post-operative care and neonatal care Better readiness of labour room and sitting arrangements for attendants High overall client satisfaction score Improved provider behaviour High client satisfaction for the availability of free medicines and services 	NR	Bangladesh (171)
 Improved quality of examination and curative care for children Improved infection prevention and control No impacts on the timing and number of antenatal consultations, coverage rates of child growth monitoring and vaccination, content of adult consultations Weak evidence of improvements in provider competency Significant impacts on the availability of essential drugs and diagnostic test kits, equipment Higher satisfaction with the local primary care facilities Limited impact on utilization Higher perceived competence of providers and that the staff worked closely with and listened to the community Improved satisfaction of providers and no effect on staff turnover 	 Low levels of confidence in primary health facilities as one-third of women bypassed them 	Tajikistan (132)
 Better QoC indices for institutional deliveries, vaccinations, and injectable contraceptives Improved quality audit scores QoC for complex procedures, such as the use of a 	 Significantly better coverage and QoC for institutional deliveries, PNC, injectable contraceptives, malaria preventive treatment and vaccination Significantly more lives saved of pregnant women and children under-five Higher costs in results-based financing than input- based financing 	Zambia (184, 186) Uganda (153)
 Improved quality audit scores QoC for complex procedures, such as the use of a partograph did not improve 	NR	Uganda (153)

	 Higher proportion of correct treatment of children with pneumonia, diarrhoea, and malaria 		
	 Improved structural quality, but no effect on process quality Decline in the proportion of health workers following national protocols for under-five examinations Small improvements in adherence to ANC protocol Most QOC indicators improved PBF improved the quality of vaccinations, family planning and skilled birth attendants Direct facility financing combined with PBF improved the quality of all services 	 Improved coverage of Penta3 and use of modern contraceptives Lower use of Penta3 vaccination and ITN Higher institutional deliveries Four-fold increase in estimated lives saved in PBF group; three-fold increase in direct facility financing group 	Nigeria (158, 189)
	NR	 Improved the utilization of few selected maternal health services PBF combined with equity measures did not produce better or more equitable results than standard PBF 	Burkina Faso (165)
In-Kind Incentives OR Rewards (PBF and equipment/infrastructure) and Conditional Cash	 Significant effect on quality and timeliness of ANC and PNC, and community outreach No evidence of shifting of effort from non-contracted services 	- Small improvement in the utilization of health services, significant improvement for maternal and child health services	El Salvador (136)
Transfer	 Increased referrals of expectant mothers All EmONC facilities met all quality criteria Incentive payments correlated with improved service quality Almost all maternal and neonatal deaths audited High levels of resuscitation and postnatal checks for newborns All cases of pre-eclampsia treated All women for delivery with unknown HIV status tested and managed 	 Increased utilisation of emergency obstetric and newborn care services by women The proportion of women who stay full 2 days after delivery remained high 	Malawi (180)
Performance-based Incentives, health insurance, system level incentives	 Improvements in QoC score No change in history taking, physical examination, ordering tests, and diagnosis and treatment Sustained high clinical performance by doctors Very low rate of decay in CPV scores Patient satisfaction scores and caseloads are strongly correlated with quality scores Greater patient satisfaction, and increased caseloads correlated with quality score 	 No substantive change in patient volumes in the hospitals that received bonuses compared to those who did not 	Philippines (170)

Performance-based financing, along with community health insurance	- Equity gaps in facility deliveries reduced	 Increased use of maternal health services, more by the insured Overall service remained low 	Rwanda (169)
Performance-based financing (PBF), demand-side financing (DSF) for poor and strengthened referral	 High quality scores in ANC and PNC counselling, and institutional delivery Improved use of partograph to manage labour, active management of third stage labour, and 24/7 availability of CEmONC Highest overall client satisfaction score 	 Improved client volume for ANC with a combination of PBF and DSF; moderate increase for PBF alone Improved institutional delivery and PNC for both DSF and PBF 	Bangladesh (172)
	 High positive perception of the insurance scheme Satisfactory handling of patient complaints by the health facility Increased vaccinations and ultrasounds during ANC Increased proportion of first ANC within 20 weeks 	 Faster decline in IMR in the intervention region compared to the national average Improvement in the quantity and quality of services Increase in average birth weight, decrease in incidence of very low-birth-weight (LBW) and reduction in neonatal mortality Increased likelihood of children under-five attending well-baby check-ups 	Argentina (Plan Nacer) (187)
Capitation plus pay for performance	 Reduced overprescribing and inappropriate prescribing of antibiotics 	 A small reduction in total spending per visit to village posts 	China (182)
Performance incentives along with decision- support system tools	 No improvement in quality scores Deficiencies in quality of antenatal and childbirth care and in detection, prevention, and management of obstetric complications Improvements in history taking, monitoring of mother, interpersonal performance, and in care and examination of the newborn 	NR	Burkina Faso, Ghana and Tanzania (147)
Performance-based incentives to facilities & Conditional cash transfer to pregnant women	 Non-significant increases in infection prevention Decline in prevention of post-partum haemorrhage Improved effective childbirth care Improved equipment maintenance and availability of selected drugs and consumables 	- Reduced facility-based maternal mortality	Malawi (145)
Introduction of user-fees or cost recovery schemes	 Improved interpersonal qualities of nurses Low rates of compliance of diagnostic examinations 	 Decreased utilization of health services Increased utilisation in some health centres, explained by good interpersonal qualities of nurses Significant increase in costs of consultation and medications 	Zaire (DR Congo) (152)

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	 Improved welcoming the patient, history taking, monitoring vital signs, diagnostic examination, and communication 	 Most of the patients intend to return to the same facility in the future 	Niger (181)
	 Allocative inefficiency and inequity concerns Gaps in QoC Most of the clients using health centres reported quality as good to excellent Most patients were satisfied with the services received 	 Clients recommend reducing waiting time, and improving supplies Three-fourth of patients bypassed nearby health facilities and sought care at apex of the system due to low satisfaction with care quality 	Eritrea (134)
Performance-based financing and continuous quality improvement	 Improved compliance to clinical protocols for maternal health services at primary health care level No other evidence of improvements in other services or hospital services 	- NR	Zimbabwe (190)

Table 6: Summary of Findings on Engaging the Private Sector

Intervention	Care Processes	Quality Impacts	Country Contexts & References
Franchising / Provider Networks/ Social franchising	 Improved technical competence in clinical skills Improved availability of contraceptive supplies and counselling skills Higher mean total quality score than other private facilities Better choice of methods, information given to clients, technical competence, interpersonal relations Stronger mechanisms to encourage continuity, and appropriate constellation of services Higher proportion of poor clients served than government facilities Greater efficiency (lower cost per client) than government facilities. Poor quality of CEmONC services due to shortage of staff, non-resident staff and shortages in blood Lack of adherence to asepsis Lower cost per client (Green Star) Providers and other staff members more friendly and respectful Most of the clients reported high satisfaction with quality of advice/ information received and affordability of service 	 Increased lifetime use of any contraception and of any modern method Most of the clients would recommend the franchise clinic to friends and relatives Substantial reduction in the unmet need for FP 	Pakistan (193, 200, 204)
	 Positive association with both general and FP client volumes, and the number of FP brands available 	- No associations with franchise membership for reproductive health service outcomes	Pakistan, India (Bihar) and Ethiopia (202)

 Mixed associations between franchise membership and client satisfaction in Bihar; a positive association in Pakistan; and a negative association in Ethiopia 	- Intention to return to the same clinic high in Pakistan and low in Ethiopia	
 No change in the coverage of TT during their last pregnancy Significant increases along all dimensions of perceived quality and perceived access (SEWA) Low patient referral Insufficient information given to the clients regarding side effects and the limitations of the different methods of choice Improved visual and auditory privacy; availability of separate examination and waiting rooms High satisfaction with cleanliness, availability of essential equipment, and overall measure of quality Clients report provider selection primarily upon perceived or expected QoC 	 Marginally significant improvement in the use of family planning Increased costs of care for clients No change in client loyalty (SEWA) 	Nepal (SEWA, PSSN and <i>Sangini</i> Franchises) (191, 192, 196)
 No change in information provided by the doctor Higher perceived quality regarding inter-personal relation and infrastructure No difference in composite quality indicator Weak referral linkages (Sky Franchise) Overall low quality of services (Sky franchise) Deficiencies in content of ANC, delivery, and newborn care practices (<i>Matrika</i>) High client perceived quality in relation to staff behaviour; doctor behaviour and physical infrastructure (<i>Merrygold</i>) High level of client satisfaction 	- No significant effect on facility births (Sky, <i>Matrika, Merrygold</i>)	India (194, 199, 203)
 Clients "pampered" by franchise staff; valued not being yelled or shouted at by staff, contrasted with their experiences in public facilities (Ghana) staff were considerate and attended to quickly (Kenya) Satisfied with perceived quality of medical care received, polite, friendly, and caring staff, short waiting times and facility cleanliness (Ghana & Kenya) 	 Past experiences of getting better, having confidence in the franchise staff's ability, staff conducted tests and procedures, and prescribed quality and effective medicine predicted use of franchise (Ghana & Kenya) Intention to continue the care at the facility again 	Ghana & Kenya (201)
 Improved efficiency (measured as increased Couple Year Protection) Mixed effects on provision of information on contraceptive methods and choices 	 Averted estimated 4,958,000 unintended pregnancies and 7,150 maternal deaths Marginal to moderate improvements in FP client volumes 	Asia and Africa (197)

	 Staff were considerate, polite, and friendly, conducted tests and procedures, and prescribed quality and effective medicine High average weighted client satisfaction score Mixed effects on client satisfaction No association with client's assessment of staff expertise High clients' perceptions of staff attitudes Improved community perceptions of service quality and client satisfaction 	 Mixed results on perceived increase in costs of seeking care from franchise clinics Higher likeliness of clients to return and recommend to others 	Vietnam (198)
	- Increase in notification rate of new smear positive cases	 High treatment success rate for new smear-positive TB cases Treatment delays for TB cases minimised 	Myanmar (195)
Contracting	 Positive effect on the treatment of diarrhoea Significant negative effects on views of staff attitudes; staff competence, and on how the facility was supplied Negative average effects on quality perception for both health centres and outreach 	 Reduced the possibility of reporting sick and seeking treatment Reduced incidence of diarrhoea among children No significant effect om child mortality Substantial increase in per capita public health spending 	Cambodia (206)
	 Major improvement in efficiency Increase in women reporting improved availability of medicine and better quality of MNCH services Better functionality of facilities, staff availability and client volumes Improved technical process of care and staff capacities, but remained low Poor drug availability, quality of provider-client relationships and quality of clinical care Inequitably higher utilisation amongst more educated and affluent clients Higher proportion of women reporting improved courteousness/ respectfulness of staff and improved skills of the health workers Higher client reported improvements in services Increased satisfaction with accessibility to health services 	 No effect on the coverage of preventive services Improved utilisation of ANC, PNC, and newborn care and contraceptive Lower direct out-of-pocket expenditure (contracting-in); but higher indirect costs related to transport and diagnostics 	Pakistan (200, 208, 209)
	 Improved per capita provision of services Improved coverage, equity, QoC and efficiency No effect on equity of ANC coverage 	 Improved ANC, skilled birth attendance, contraceptive use rate, awareness of HIV/AIDS and STIs 	Bangladesh (205, 207)

	 Improved awareness and avoidance of STI and HIV risk behaviours High level of satisfaction with the proximity of health facilities, and perceived responsiveness of doctors and staff 	 Reduction in neonatal, infant and under-five mortality rates, stunting and equity gaps in under- five mortality Reduced prevalence of childhood diarrhoea, acute respiratory infections (ARI) and fever 	
Public-Private- Partnership	 More and better-quality clinical services available Increased availability of free CEmONC services Not associated with birth-related complications No preferential treatment for PPP (non-paying) clients compared to paying clients High level of overall satisfaction with the services 	 Lower out-of-pocket expenditures related to vaginal deliveries and CS No changes in the level of institutional deliveries, management of maternal complications or use of ANC, PNC, and newborn intensive care No significant relationship with delivery-related spending or mean hospital spending Very low proportion of mothers received a completely cashless birth Lower use of ANC and reduced length of stay after hospitalisation among beneficiaries 	India (Chiranjeevi Yojana) (211, 212)
	 The time spent waiting for treatment, and manner of support staff, and explanation given regarding treatment significantly predicted satisfaction Lack of equipment had negative influence on satisfaction in human resources 	NR	India (210)
	 More clinical services and services of higher quality Improved triaging on arrival at the hospital Better stock of emergency management medications 	 Improved survival rates for very LBW newborns Lower hospital mortality rates and paediatric mortality due to pneumonia Increased CS rates Reduced proportion of fresh stillbirths Lower average length of stay 	Lesotho (213)
Private sector capacity strengthening	 Improved interpersonal care Reduced unnecessary care and waste Reduced correct management of outpatient cases Low laboratory quality Use of non-efficacious medicines for asthma No change in client perceived QoC No changes in client satisfaction or perceived availability of amenities at the hospital 	NR	Kenya (214)

Table 7: Summary of Findings on Information and Monitoring

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Intervention	Care Processes	Quality Impacts	Country Contexts &
			References
Benchmarking to foster accountability, monitoring of progress and promote a culture of evidence	 Improved effective coverage for MCH services Inequities in effective coverage between lowest and highest quintiles unchanged 	- Reduction in public spending	Mexico (217)
Balanced Score Card for National Health Service Performance Assessment	 Improved provision of ANC and delivery care, capacity for service provision, pro-poor and pro-female health services, and quality of services All provinces achieved the national median score Improved patient, community, and provider satisfaction Improved provider satisfaction 	- Availability of user-fee exemptions for poor patients	Afghanistan (216)
Quality of care audits to identify modifiable factors and motivate change	- Improved identification of contributing factors of perinatal mortality by some of the facilities: patient delay in seeking help when a baby was ill, lack of use of antenatal steroids, foetal distress not detected antepartum when the foetus is monitored and poor progress in labour with incorrect interpretation of the partogram	 One-third of facilities had increased mortality and another one-third did not have any change Facilities with increasing perinatal mortality were less likely to identify modifiable factors Lower rates of spontaneous preterm labour and unexplained intrauterine death among facilities, which reduced perinatal mortality rate 	South Africa (215)
Quality contests	 Significantly improved QoC scores among facilities participated in quality contests 	NR	Morocco (219)
Data-driven decision- making tool	 Improved infection prevention control, use of completed partographs, and an aversion of patients' deaths Reduced shortages of staff and transport in remote areas Reduced waiting time 	- Significant reduction in neonatal mortality	Kenya (218)
Dashboard driven patient safety management	 Composite QoC score increased from 62 to 92 in nine years Improved compliance to patient handover protocols Improved handwashing and antimicrobial prophylaxis Improved compliance to fall prevention 	NR	India (220)
Application of health care performance evaluation systems for performance evaluation, benchmarking, and accountability	 Improved identification and management of maternal and childcare pathways Heterogenous performance across the districts 	NR	Ethiopia, Tanzania and Uganda (222)

Performance			Tanzania (221)
accountability	- Systemic barriers limited the effectiveness of accountability		
monitoring tools	mechanisms	NR	

Table 8: Summary of Findings on Participation and Engagement

Intervention	Care Processes	Quality Impacts	Country Contexts & References
Participatory intervention with Women's Groups along with health facility strengthening	NR	 Improved coverage of ANC, iron supplements, institutional deliveries and birth attended by skilled birth attendants More infant taken to hospital for illness Reduced maternal and neonatal mortality 	Nepal (226)
	 No evidence of impact on clinical practices in health centres and CEmONC facilities 	 Reduced neonatal mortality and perinatal mortality No effects on maternal mortality Lower fresh stillbirth rates in intervention facilities No effects on health facility deliveries 	Malawi (224)
	 No difference in homecare practices or care-seeking behaviours 	 No significant difference in NMR, perinatal mortality; MMR, stillbirth rate between intervention and comparison groups 	Bangladesh (223)
	 Improved home delivery practices, essential newborn care, and feeding practices in the intervention 	 Significantly lower NMR Cost-effectiveness 	Bangladesh (225)
Women's Groups and/or Community engagement	 Improved information provision to clients Improved perception of healthcare quality across all the healthcare quality indicators Improved perception of staff respectfulness/ courteousness towards clients and punctuality to work Quality of services in public health facilities perceived to be worse than private facilities 	NR	Ghana (227)
	 India (229) No differences in antenatal care, reported work, rest, and diet in later pregnancy, institutional delivery, early and exclusive breastfeeding, or care-seeking India: (230) NR 	 India: (229) Lower stillbirth rate (non-significant) Higher NMR in intervention No difference in extended perinatal mortality rate No population-level effects on health care or mortality India: (230) 	India (229), (230)

		 No significant increase in 3+ANC, TT during pregnancy or skilled birth attendance Lower neonatal mortality rate, stillbirth rate, post- neonatal mortality rate No significant reduction in maternal depression 	
	- Exclusive breastfeeding rates improved significantly	 Non-significant decreases in neonatal mortality rate highly cost effective 	Malawi (228)
Patient engagement for patient safety	 Varying levels of knowledge, perception and willingness to engage in patient safety Low readiness and willingness of healthcare recipients to engage 	- NR	Indonesia (231)

Table 9: Summary of Findings on Regulation

Intervention	Care Processes	Quality Impacts	Country Contexts & References
Accreditation of health facilities	 Improved compliance to critical standards No change in patients' overall medication education score Improved perceptions of QoC by nurses Improved patients' satisfaction with care 	NR	South Africa (239)
	 Improved availability of clinical guidelines and emergency drug list Greater performance on standards for patient rights Higher patient satisfaction scores regarding cleanliness, waiting area, waiting time, unit staff and overall satisfaction No differences in provider satisfaction except for the overall satisfaction score Egypt: (235) Higher proportion of women informed of the side effects of the contraceptives Improved weight measurement, but lower BP measurement during ANC visits 	 NR Egypt (235) Reduced the prevalence of acute respiratory infection, fever, and diarrhoea among children with access to accredited facilities Improved 4+ ANC visits, FP institutional and skilled assistance during delivery among women with access to accredited facilities 	Lgypt (255), (255)
	 Improved medication and patient handling, analysing performance of care processes, and evaluating results 	NR	Turkey (242)

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	- Higher quality management index scores		
	- Better infection control		
	NR	 Increased patient volumes for outpatient care and in-patient admission Significant associations with lower standardized mortality ratios of acute stroke and sepsis Reduced mortality rates for acute myocardial infarction, stroke and sepsis 	Thailand (240)
Accreditation of	 Accreditation and receipt of payments significantly 	NR	Philippines (238)
physicians with	associated with QoC score of physicians		
Certification of health	Higher provision of each of the contracentive methods	ND	Equat (236)
facilities against set	- Inglief provision of each of the contraceptive methods Batter availability of examination room supplies	INK	Egypt (250)
standards	- Higher mean score of quality of FP services		
standarus	- Higher mean family planning quality score		
	- Better adherence to standard practices in counselling and		
	examination		
	- Two-third hospitals had scored >90% in their Kavakalp	NR	India (NOAS) (232)
	external assessment		
	 Manyata certification resulted in improved composite quality scores from 9% to 80% 	NR	India (Manyata) (241)
	- Improved grievance redressal actions, ensuring the		
	confidentiality of patient information, and compliance		
	standard treatment guidelines		
	- Increase in met standards in all quality domains	NR	Ethiopia (234)
	- High scores in leadership and governance, health centre-		
	health post linkage, clean, and safe health facility, and		
	health information systems		
	 Low QoC in intervention and control groups 	NR	Tanzania (SafeCare)
	- Less than a third of standardised patients received the		(237)
	correct care for their condition		
	 Low correct management those presenting 		
	with asthma and upper respiratory tract infection		
	 Low compliance with IPC practices 		

Table 10: Summary of findings on Multiple Interventions

Intervention	Care Processes	Quality Impacts	Country Contexts &
			References
Multiple governance and health system strengthening interventions (infrastructure, human resources, financing, medical products and equipment, service delivery, accountability, regulation)	 Philippines: Availability, quantity, and quality of essential health services improved South Africa: Significant increase in the number of signal functions at the community healthcare centres and district hospitals Madagascar: Improvements in rates of medication prescription and diagnostic test administration Increased prescription rate for oral rehydration therapy among children with diarrhoea Increase of all content of perinatal care indicators 	 Philippines: Increased institutional deliveries Maternal mortality ratio reduced from 254 to 114 in intervention province South Africa: Reduced institutional MMR and case fatality rate for severe acute malnutrition cases Reduction in all maternal deaths, and in direct maternal deaths Madagascar: Slight increase in care-seeking for ANC, perinatal care, and sick childcare 	 Philippines (250) South Africa (243) Madagascar (247)
Community-based PHC and Conditional Cash Transfer (<i>Bolsa Familia</i> Programme, BFP)	NR	 Increase in ANC visits per pregnancy Decreased correlation between BFP and post- neonatal infant mortality Increased correlation between prenatal care and BFP coverage 	Brazil (<i>Bolsa Familia</i> Programme, BFP) (249)
Decentralisation & Regulatory changes	 The quality scores improved but remain low Low QoC scores for nurses as solo provider Modest QoC score for prenatal care for all providers; high QoC score for child curative care, and wide range in QoC score for adult curative care 	NR	Indonesia (245)
Performance-based financing with Contracting-In and Contracting Out	 No effect on ANC and child vaccination Deficient QoC due to lack of equipment and trained personnel adversely affected neonatal health outcomes 	 Increased probability of institutional delivery among the non-poor Shift from home birth to delivery in a public facility 	Cambodia (253)
Health facility accreditation, performance-based- financing, introduction of user-fees, continuous quality improvement and performance monitoring	- No significant effects on most ANC outcomes	 Discontinuing the incentives had negative effect on knowledge of contraceptive methods, receiving ANC by skilled health personnel, receiving iron supplements during pregnancy and, under-five child mortality. Combined interventions had no effects on utilization of FP and delivery care services, and child health status User-fees did not affect access and utilisation. 	Egypt (246)

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		 Accreditation had multiple positive effects, especially on delivery care and child morbidity prevalence; not sufficient to sustain quality of FP and ANC Lower prevalence of acute respiratory infection and fever among children with access to accredited facilities 	
A participatory community and health system intervention; a client service charter and a facility-based, quality- improvement process	 Reduction in proportion of woman experiencing disrespect and abuse during childbirth Improved respectfulness by providers and the overall QoC for delivery care 	NR	Tanzania (252)
Health facility strengthening & Health Insurance	NR	 Increased hospital deliveries No effect on the percentages of women of reproductive age who died. Rapid increase of insurance coverage among women seeking care 	Nigeria (244)
Supervision with Incentives	 No association between supervision and compliance with IMCI protocols Positive association between financial incentives with both IMCI compliance and patient satisfaction No association of top-down supervision with patients' satisfaction Positive association of bottom-up supervision with patient satisfaction Positive and significant association between patient satisfaction and salary top-ups and subsidized housing 	NR	Tanzania (248)
Health insurance & Franchise midwife clinics	 Increased proportion of women receiving minimum standard care Exposure to midwife clinics not associated with improved standards of ANC 	 Statistically significant improvement in prenatal visits Improved 4+ANC and ANC in the first trimester 	Philippines (251)
Franchising and vouchers	- Clients satisfied with information provided and affordability	 Substantial reduction in unmet need for FP and increase in lifetime use of contraceptives High rates of willingness to recommend the clinic to others 	Pakistan (254)

Accreditation standards and health system improvements	 Composite QoC (SafeCare) standards improved from 45% to 68% Compliance to standards improved for surgery, anaesthesia, outpatient services and primary health care Waiting time reduced 	NR	Nigeria (255)
Competition under regulated fees, health insurance	 Improved quality of hypertension management linked to improved doctor/population ratio 	- Reduced hospitalisation rate for ambulatory care sensitive conditions for hypertension, associated with increases in doctor/population ratio	Ghana (256)
Every Mother Every Newborn Quality Standards with system improvements and community engagement	 Improved compliance to clinical care standards Improved patient rights Improved cross-cutting standards Improved availability of equipment and drugs for maternal and newborn care Mixed results in provider communication and respectful maternity care 	 Reduced neonatal case fatality rate in Bangladesh and Tanzania Reduction in institutional maternal mortality ratio in Ghana Significant reduction in institutional stillbirth rate in Tanzania Reduced institutional perinatal mortality rate in Tanzania 	Bangladesh, Ghana and Tanzania (257)
Service expansion through public-private-partnership and health insurance	 Major improvements in quality of care for pregnant women Improved timely care-seeking for ANC Slight reduction in the quality of child and adult care 	- Reduced travel time for care-seeking	Rwanda (258)