



May 26 to 29, 2021



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First Virtual Congress of
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۵ تا ۸ خرداد ۱۴۰۰

Patient Safety during COVID-19



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Patient Safety

- ‘the prevention of adverse events associated with health care to achieve zero avoidable patient harm’ (WHO, 2020)
- A benchmark for the well-functioning health systems and a fundamental element for achieving universal health coverage (UHC).



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Six building blocks of health systems

(Biddle et al., 2020; WHO, 2010).





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Current Gaps in the Health Systems and Potential Impact on Patient Safety





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Gaps in service delivery

- Inadequate public health infrastructure
- Scarcity of hospital
- Isolation and ICU beds
- Inadequate triage and testing facilities
- Limited physical space and ventilation
- Lack of separate entry and exit gates
- NCDs, other inf. Dx , Cancer care, Electives
- Increased the risk of healthcare associated infections (HAI) amongst patients seeking care

Dwivedi, L., Rai, A., Dey, T., Ram, U., & Yadav, S. (2020). Assessing the impact of complete lockdown on COVID19 infections in India and its burden on public health facilities. *Demography India*, 49(Special Issue), 37–50.



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- **Absence and shortages of the treating health workers**
- **Burnout and medical errors.**
- **Limited staff knowledge and understanding of infection prevention and control (IPC) measures, (PPE)**
- **Lab staff: poor collection technique**

Modi, P., Nair, G., Uppe, A., Modi, J., Tuppekar, B., Gharpure, A., & Langade, D. (2020). COVID-19 awareness among healthcare students and professionals in Mumbai metropolitan region: A questionnaire-based survey. *Cureus*, 12(4).



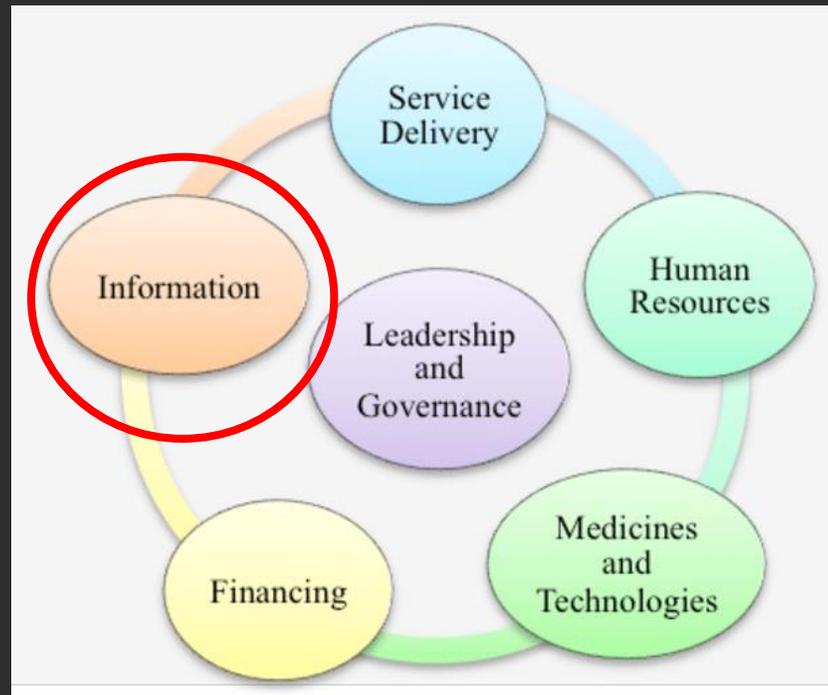
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- **Currently there is no systematic mechanism for collecting or reporting data on patient safety incidents**
- **There is no system for patient self-reporting of adverse event related to healthcare**
- **‘Causes of death’ data is incomplete and in many incidences, the comorbidities have been listed as an underlying cause of death, rather than suspected**
- **The lack of robust epidemiological and surveillance mechanisms**

Pulla, P. (2020). India is undercounting its COVID-19 deaths. This is how. Science The Wire. <https://science.thewire.in/health/india-mccd-comorbidities-covid-19-deaths-undercounting/>



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- Shortages in medical supply
- Quality of the products especially N95 masks
- Lack of enough ventilators, oxygen and ICU medical supplies and poor maintenance of hospital equipment
- Laboratory products
- Hydroxychloroquine and anti-retroviral drugs for prophylaxis

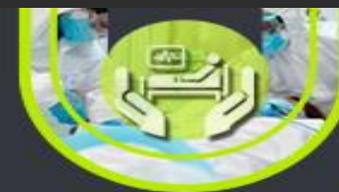
Garg, S., Basu, S., Rustagi, R., & Borle, A. (2020). Primary health care facility preparedness for outpatient service provision during the COVID-19 pandemic in India: Cross-sectional study. JMIR Public Health and Surveillance, 6(2), 1–7.



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- High out of pocket expenditures (OOPE) and poverty
- Pandemic only had a beneficial effect in emergency health services, but not necessarily for strengthening the public health systems in longer term

(The Lancet, 2020)



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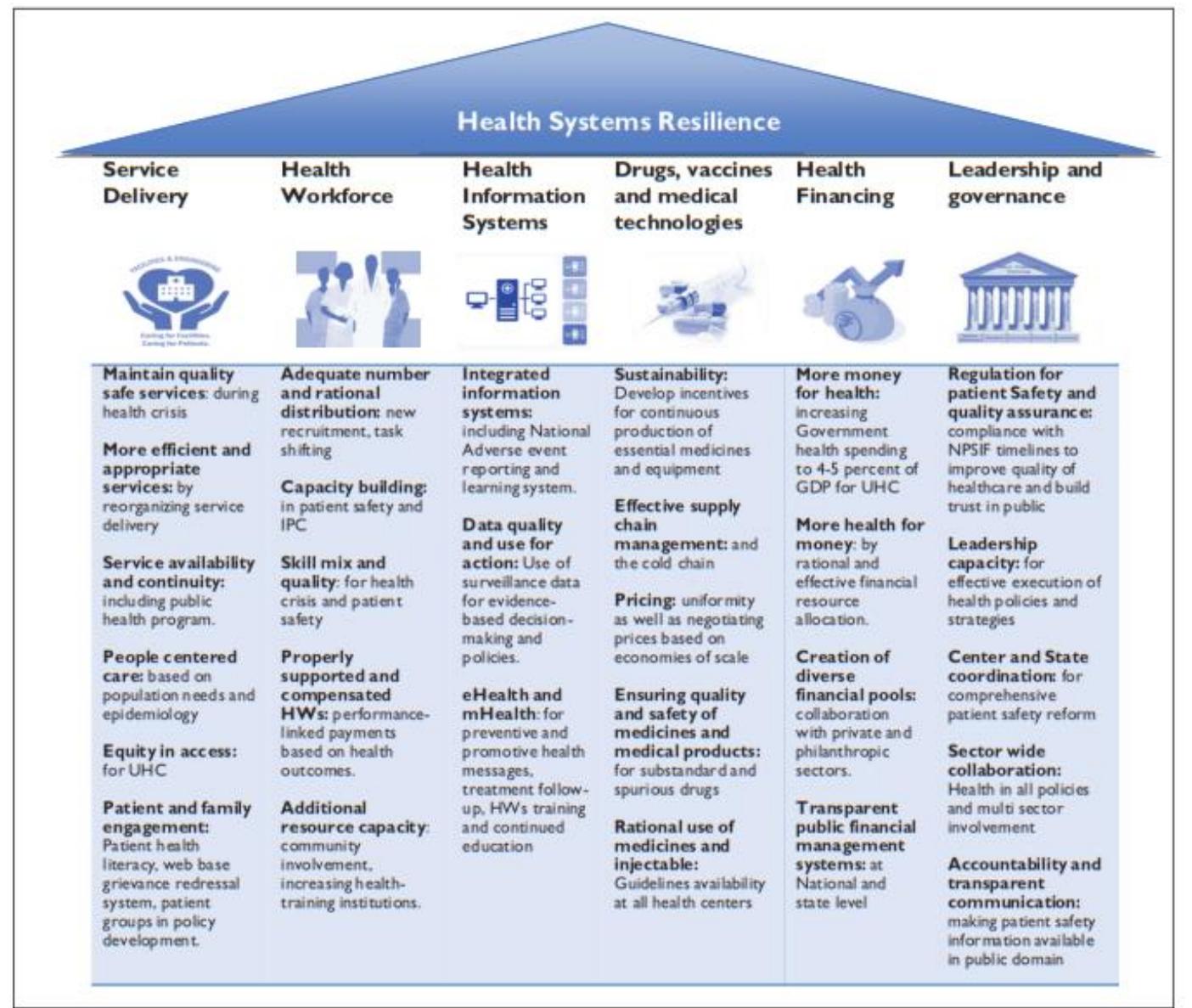
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- **Governance capacity and political commitment for investing in health varies across the states**
- **Sub-optimal coordination and intersectoral engagement**



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۵ تا ۸ خرداد ۱۴۰۰

Improving Service Delivery, Quality and Safety

- Strengthen health infrastructure for good quality, safe and integrated services
- Re-think and reorganise services
- Improve essential service availability and continuity
- People-centred care
- Equity in access



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Building Future Health Workforce

- Adequate number and rational distribution
- Capacity building
- Properly supported and compensated HWs
- Identify additional surge capacity



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۵ تا ۸ خرداد ۱۴۰۰

Integrated Digital Health Information and Surveillance Systems

- Integrated health information systems
- Data quality and use for action
- Scale up eHealth and mHealth



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۵ تا ۸ خرداد ۱۴۰۰

Augment Local Production for Access to Medicines and Medical Products

- Sustainable production of quality essential medicines and diagnostics
- Ensuring safe and appropriate medicines and medical technology
- Rational use of medicines and injectables



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Investing in Health: More Money for Health, and More Health for Money

- More money for health
- Transparent public financial management systems



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Strengthening Stewardship of Health Sector

- Regulation for patient safety and quality assurance
- Sector wide collaboration
- Transparency and Accountability



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ELSEVIER

Brain, Behavior, and Immunity

Volume 88, August 2020, Pages 901-907



Prevalence of depression, anxiety, and insomnia among healthcare workers during the COVID-19 pandemic: A systematic review and meta-analysis

Sofia Pappa ^{a, b}  ¹ ✉, Vasiliki Ntella ^{c, 1}, Timoleon Giannakas ^c, Vassilis G. Giannakoulis ^c, Eleni Papoutsis ^c, Paraskevi Katsaounou ^{c, d}



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- **At least one in five healthcare professionals report symptoms of depression and anxiety**
- **Almost four in ten healthcare workers experience sleeping difficulties and/or insomnia.**
- **Rates of anxiety and depression were higher for female healthcare workers and nursing staff.**



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- While health workers represent less than 3% of the population in the large majority of countries and less than 2% in almost all low- and middle-income countries, around 14% of COVID-19 cases reported to WHO are among health workers. In some countries, the proportion can be as high as 35%.



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WHO: 5 steps to improve health worker safety and patient safety



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1. Establish synergies between health worker safety and patient safety policies and strategies:

- Develop linkages between occupational health and safety, patient safety, quality improvement, and infection prevention and control programmes.
- Include health and safety skills in personal and patient safety into education and training programmes for health workers at all levels.
- Incorporate requirements for health worker and patient safety in health care licensing and accreditation standards.



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- **2. Develop and implement national programmes for occupational health and safety of health workers:**
- Develop standards, guidelines, and codes of practice on occupational health and safety.
- Strengthen intersectoral collaboration on health worker and patient safety, with appropriate worker and management representation, including gender, diversity and all occupational groups.



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- **3. Protect health workers from violence in the workplace**
- Adopt and implement in accordance with national law, relevant policies and mechanisms to prevent and eliminate violence in the health sector.
- Ensure that policies and regulations are implemented effectively to prevent violence and protect health workers.
- Establish relevant implementation mechanisms, such helplines to enable free and confidential reporting and support for any health worker facing violence.



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- **4. Improve mental health and psychological well-being**
- Establish policies to ensure appropriate and fair duration of deployments, working hours, rest break and minimizing the administrative burden on health workers.
- Provide access to mental well-being and social support services for health workers, including advice on work-life balance and risk assessment and mitigation.



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- **5. Protect health workers from physical and biological hazards**
- Ensure the implementation of minimum patient safety, infection prevention and control, and occupational safety standards in all health care facilities across the health system.
- Ensure availability of personal protective equipment (PPE) at all times
- Ensure adequate training on the appropriate use of PPE and safety precautions.



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Evaluation of Patient Safety in COVID-19



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Outcome measures

- 1. Hospitalisation rate for COVID-19 (indirect outcome measure of the territory).
- 2. In-hospital Mortality rate of patients hospitalized for COVID-19.
- 3. Average Length of Stay of COVID-19 patients.
- 4. Percentage of COVID-19 patients admitted to ICU.
- 5. In-hospital mortality rate of NO-COVID-19 patients hospitalised for AMI.
- 6. In-hospital mortality rate of NO-COVID-19 patients hospitalized for Stroke.
- 7. In-hospital mortality rate of NO-COVID-19 patients hospitalized for COPD.
- 8. Percentage of NO-COVID-19 hospitalized patients that acquired COVID during the hospitalisation.
- 9. COVID-19 infection rate among staff / Number of tests performed to hospital staff (as process measure).
- 10. Survival rates.

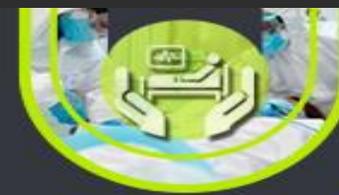


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Process measures (some examples)

- 1. Percentage of infected individuals admitted to ICU
- 2. Percentage of people with comorbidities
- 3. Percentage of staff with and without correct equipment
- 4. Number of patients not treated in appropriate level of care
- 5. Percentage staff trained to use equipment



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Staff safety measures

- 1. Staff infection rate.
- 2. Staff mortality rate.
- 3. Staff well being.
- 4. Illness and sickness rates.
- 5. Mental illness.



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Thank you

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