GLOBAL TASK FORCE ON CHOLERA CONTROL

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INDIA

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ORGANIZATION OF

HEALTHCARE SYSTEM IN INDIA (Community Health Centres or District Hospitals) → Tertiary Care Centres (Medical Colleges) [both private and government providers]

Pluralistic medical system: Indian Systems of Medicine (AYUSH); "crosspathy" allowed to certain extent

Community based care: highly focused on Reproductive and Child Health; through ASHA workers (volunteer health workers) and Auxiliary Nurse Midwives.

Euphemistically labeled Registered Medical Practitioners; non formal practitioners

Referral systems complex: Lessons from TB cases

Lack of specific M&E indicators for cholera; burden massively underreported

Coordination between various sectors needed for comprehensive cholera

COMMUNITY BASED CHOLERA MANAGEMENT Non-formal practitioners the first point-of-contact for careseekers

Indiscriminate prescription of antibiotics; often irrationally chosen, with incorrect dosing and duration

Traditional custom: Limit child feeding during diarrhea; may worsen existing malnourishment of child

□ Provisions for ORT available at the primary healthcare level; but uptake poor

OCV not part of the routine arsenal against cholera





BARRIERS TO ADEQUATE CARE PROVISION Knowledge of health workers at community level is limited

- Excessive dependence on non-formal practitioners with poor training
- Limited diagnostic capacity even up to secondary care levels
- Endemic transmission or outbreaks common in remote areas; logistic and training issues prevent adequate care provision or protocol implementation
- Vaccination program focused only on infants; window for OCV administration very small unless extra mechanisms adopted
- Referral systems poor; undue delays, result in poor clinical outcomes in severe cases
- Poor knowledge about Zinc uses; poor adherence to good practices for ORS preparation, use and dispensing; poor water management at the household level

ANTIBIOTIC USE AND CHOLERA Easy access to drugs; antibiotics and other scheduled drugs sold over the counter

Ongoing surveillance by ICMR-NICED: ~40% patients consume antibiotics prior to consultation

□ High demand for antibiotics from patients reported by healthcare providers

Published AMR data for cholera shows waning effectiveness of Antibiotics Fluoroquinolones, Tetracycline; Gentamicin Liprofloxacin

 Non-formal practitioners and Norfloxacin doctors from rural areas more Chloramphenicol to prescribe antibiotics when not prescribe indicated

Cotrimoxazole Most preferred antibiotics in Streptomycin enteric infections include macrolidzofidone (Azithromycin) and fluoroguinalonos

WAY FORWARD: EXPLORING SOLUTIONS

□ ICMR-NICED is exploring the following approaches:

Programmatic operationalization of Oral Cholera Vaccines using existing public health infrastructure in a known focus of endemic transmission in Kolkata: Pilot demonstration of acceptance, barriers & facilitators, and costs

Mapping hotspots for cholera in multiple sites across India to obtain closer-to-real estimates for appropriate burden estimates

Studies with social science components for understanding the role of behavioural patterns which increase risk exposure in susceptible populations

Developing a multi-modal package of interventions to reduce the burden of diarrheal diseases in children younger than five years of age

THANK YOU