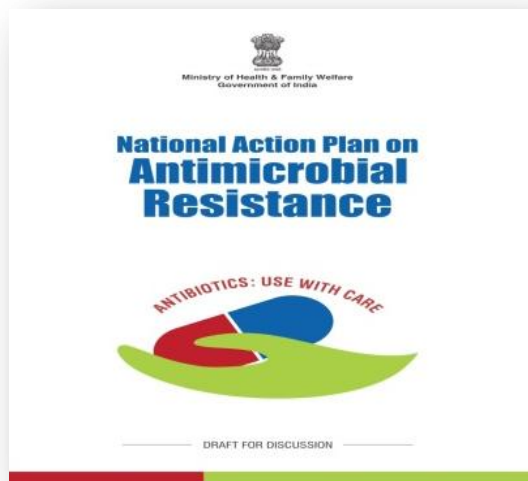
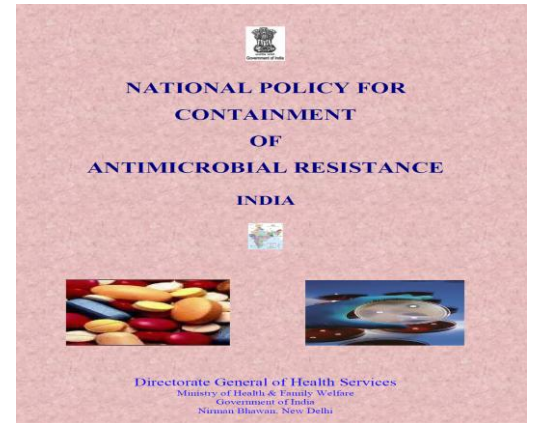


IMA-AMR Challenges



Dr Narendra Saini



Indian Medical Association

- 29 States/Union Territories
- >1700 local branches
- About 300,000 doctors members, spread all over India

**“Drug resistance follows
the drug like a faithful
shadow.”**

- Paul Erlich 1854-1915



AMR Issues :India

- India has a high burden of bacterial infections, an estimated 410,000 children aged under five years die from pneumonia in India annually,
- Around 12.9×10^9 units of antibiotics consumed in 2010, India was the largest consumer of antibiotics for human health
- India accounted for 3% (4th largest) of Global consumption of antibiotics in food animals behind China(23%), USA (13%) and Brazil(9%)

AMR Contributory Factors

➤ **Inappropriate use** (overuse, underuse and misuse)

of antimicrobials in

- ❖ Clinical medicine by Patient, Chemist and by doctors

- ❖ Veterinary medicine

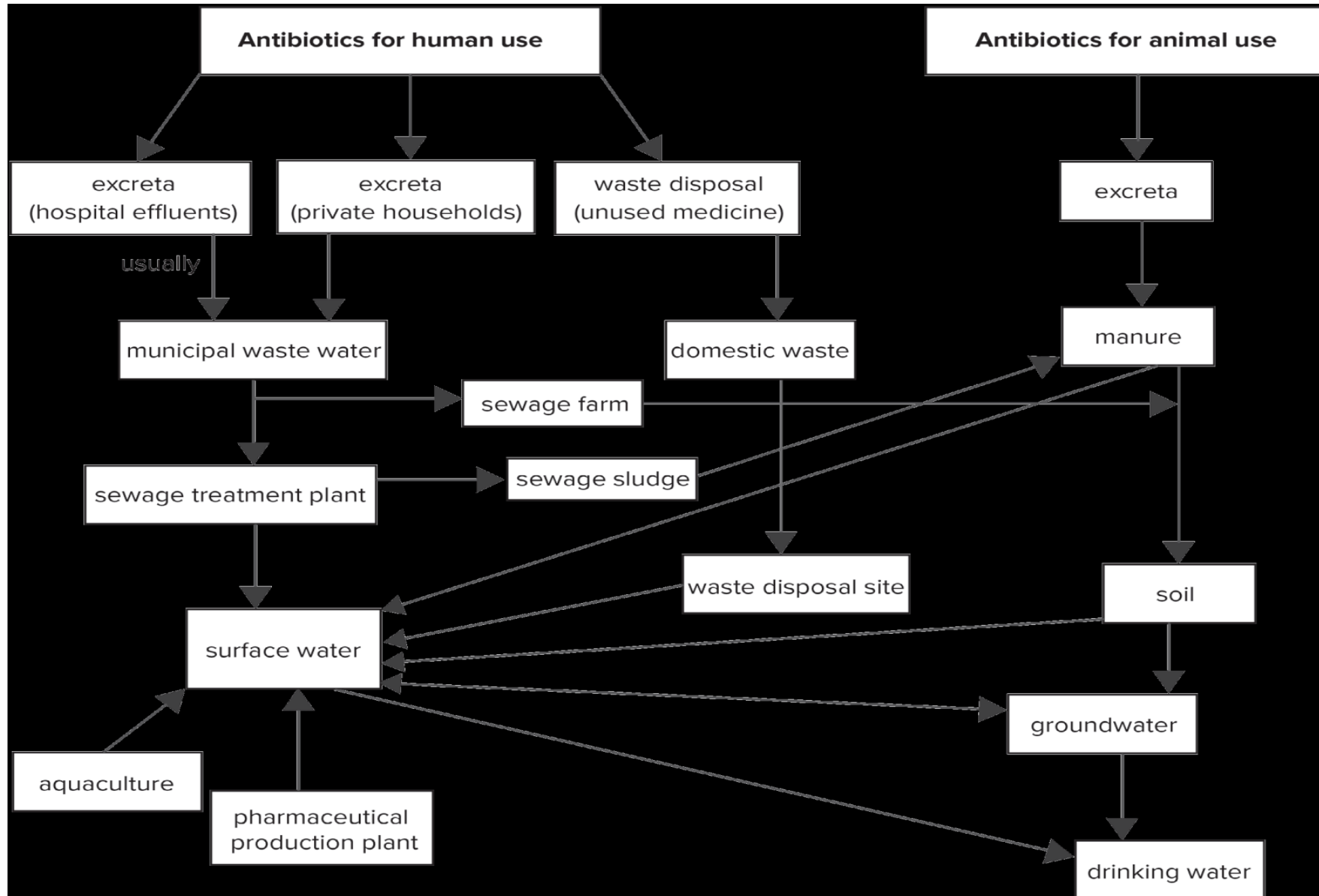
- ❖ Agronomic and industrial practices. (Environmental pollution)

➤ **Poor infection prevention and control** in health care

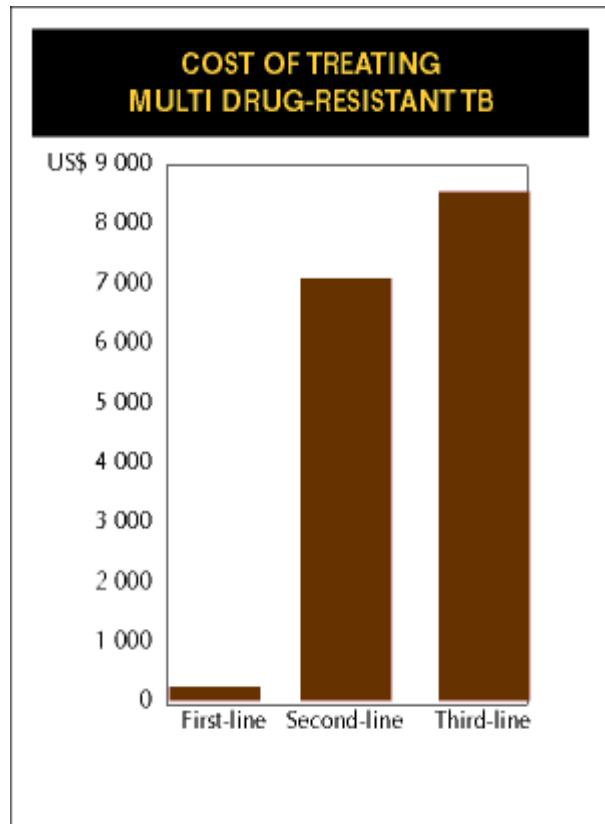
settings and home

➤ **Poor quality Antibiotics.**

Sources and pathways for antibiotic contamination of water and soil



Consequences of Antimicrobial Resistance



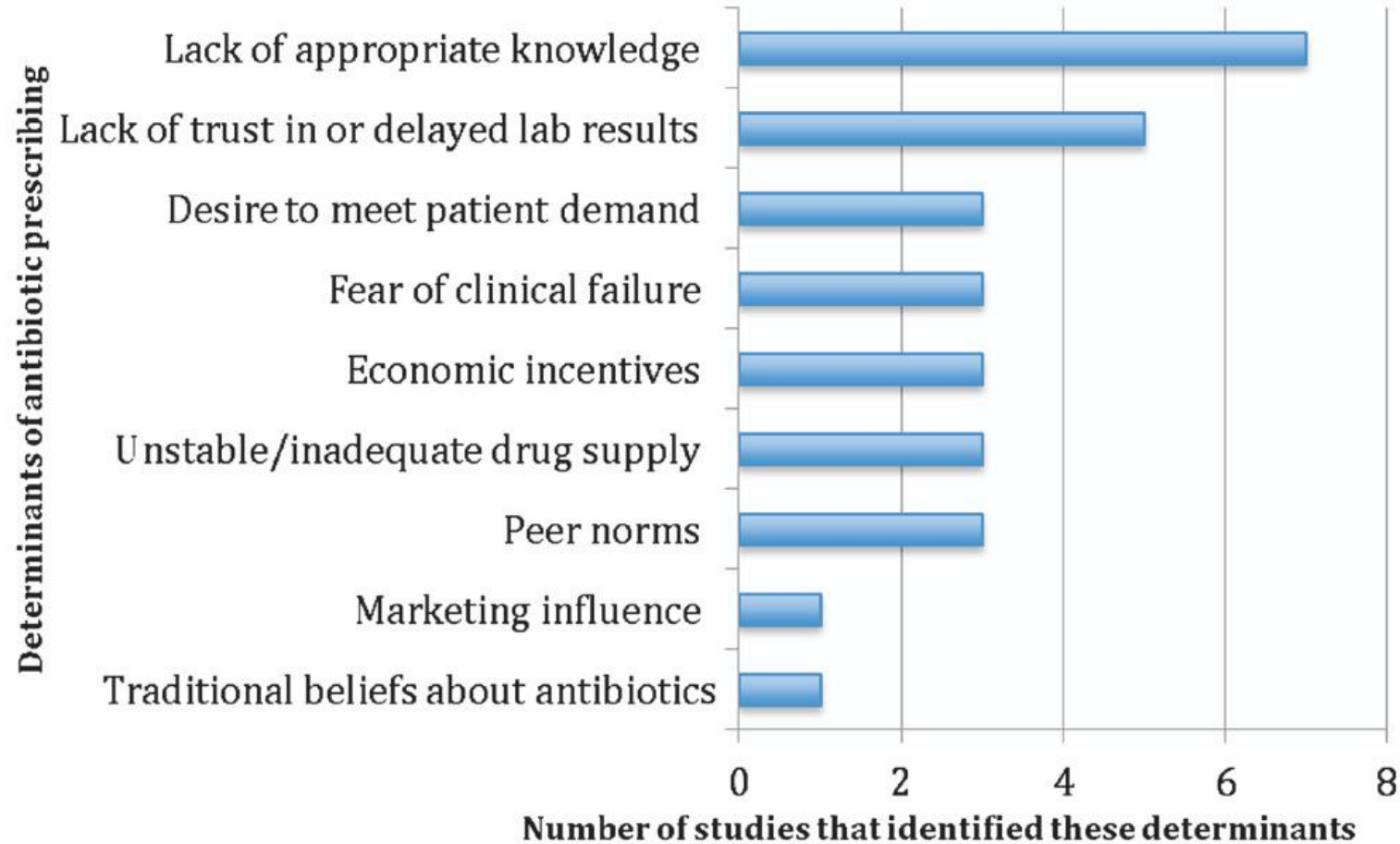
Source: Farmer et al. *The Global Impact of Drug Resistant Tuberculosis*, Harvard Medical School and Open Society Institute: pp. 168, 1999

- Infections not responding to available antibiotics
- Increased cost of treatment
- Increased morbidity and mortality
- Estimated 0.7 million deaths annually due to AMR → 50 million by 2050
- 100 Trillion \$ US loss to global economy

AMR challenges: India

- Inadequately regulated use of antibiotics (human as well as veterinary sector)
- Use of antibiotics as growth promoters in animals (AGP)
- Inadequate implementation of regulations (Schedule H-1/Schedule X for human use)
- Limited regulations for food animals (but no regulations in non-food animals)
- Inadequate effluent treatment for Antibiotics
- Inadequate interaction among clinicians & laboratory experts, Veterinarians, environmentalists

Prescribing determinants of antibiotics



What needs to be done to contain AMR

- **Generate evidence through Surveillance**
- **Optimize use of antimicrobials through stewardship activities and regulating sale in human and veterinary sector**
- **Strengthening infection prevention and control**
- **Strengthening environmental control**
- **Strengthening Culture facility in Pvt Sec.**
- **Strengthen R&D for Development of Rapid point of care diagnostics, newer antimicrobials, vaccines**

IMA- AMR

- the World Antibiotic Awareness Week in November 2017, IMA partnered with WHO
- Standing Committee on Antimicrobial Resistance to push AMR containment
- Launch of Public Awareness program on Doctors Day , 1st July 2019
- Press Conference
- To disseminate key AMR messages
- Public Lectures
- Hand Hygiene
- Promoting Swatch Bharat campaign
- Formulate IEC material & disseminate through social media, hoardings
- Vaccination program

IMA- AMR

- **Antimicrobial Stewardship (AMS) trainings**
 - Technical expert meeting (Standing committee)
 - Training of trainer program in IMA Hq with Nominated state co-ordinators
 - Two half day meetings in all state branches
- Regular AMR sessions in IMA meetings & State conferences
- . Global Hand washing Day (15 th October) could be used as focus for hand hygiene activities.
- The World Antibiotic Awareness Week (18-24 November 2019)
- Strengthening Hospital infection Program including environment hygiene



THANK YOU