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Shared issues

- · Governance / coordination/ regulations
- Both poor and rich communities affected
- · Diagnostic capacity and IPC
- · Rational use of medicines
- · Human resource capacity
- · Supply chain management
- National surveillance and evidence generation Trust in social media and science

Differences

- · Awareness, visibility and advocacy
- Immediate vs longer term economic threat
- · R&D funding, capacity and pace
- Market dynamics
- · Use of digital health solutions
- · Prioritization of HR capacity

AMR and COVID-19

Literature

Bacterial and Fungal Coinfection in Individuals With Coronavirus: A Rapid Review To Support COVID-19 Antimicrobial Prescribing

Clinical Infectious Diseases, ciaa530, https://do Published: 02 May 2020 Article history *



World Health Organization

Co-infections in people with COVID-19: a systematic review and meta-analysis

7-8% hospitalized COVID-19 patients had secondary co-infections:

- · higher proportion of ICU patients
- most common: Mycoplasma pneumonia, Pseudomonas aeruginosa, Haemophilus influenzae

72% received antibiotic therapy - broad-spectrum antibiotics

AMS and COVID-19

WHO clinical management of COVID-19 interim guidance





- ☑ For suspected or confirmed mild COVID-19 recommend against antibiotic therapy or prophylaxis
- \blacksquare For suspected or confirmed $\underline{moderate}$ COVID-19 recommend that $\underline{\text{\bf antibiotics should not be prescribed}}$ unless there is clinical suspicion of a bacterial infection
- ☑ For suspected or confirmed severe COVID-19 recommend the use of empiric antimicrobials to treat all likely pathogens, based on clinical judgement, patient host factors and local epidemiology and this be done as soon as possible, ideally with blood cultures obtained first. Antimicrobial therapy should be assessed daily for de-escalation

COVID-19 lessons relevant to the AMR response



New(er) lessons

- Impressive global R&D and FDA response, · No equitable global distribution both pace and quality, is possible
- Weak pandemic response everywhere
- Societal mistrust (science & governance)
- Role of social media
- Potential of digital health
- · Preaching equity / practicing 'nation first'

Very old lessons

- Most public health systems are weak
 - Governance, operations and \$\$ - human resource capacity
 - supply chain management
 - laboratory capacity, IPC
 - vulnerable groups suffer
 - market dynamics prevail



Join us in the World Antimicrobial Awareness Week 2021 18-24 November!



Antibiotics Antivirals Antifungals Antiparasitics