



What can human medicine do against antibiotic resistance? The Nordic perspective

Anne Ma Dyrhol-Riise, MD, Prof.

Department of Infectious Diseases, Oslo University Hospital

Institute of Clinical Medicine, University of Oslo

Leader Signature Theme- Infectious Diseases

Centre for Global Health: Infectious Diseases

The *prevention* and *control* of *infectious diseases* has traditionally been the backbone of global health.

Projects linked to the *Centre for Global Health* cover five continents and employ methods from a variety of methods from field such as *anthropology*, *epidemiology*, *history*, *infection medicine*, *immunology*, *preventive medicine*, *reproductive health vaccinology* and more.



Projects – Signature theme Infectious Diseases

- [Chronic Infections](#) – Anne Margarita Dyrhol-Riise, Dag Kvale
- [Ongoing HIV-studies](#) - OUS
- [Ongoing TB-studies](#) - OUS
- [The history of directly observed treatment, short course for TB](#) - Christoph Gradmann
- [BRIGHT research - Female genital schistosomiasis](#) - Eyrun Flörecke Kjetland
- [Genome maintenance in Mycobacterium tuberculosis and Tuberculosis molecular epidemiology](#) – Tone Tønjum
- [Community based organizing against HIV among same sex-attracted men in Tanzania](#) –Kåre Moen
- [Meningitis](#) - Tone Tønjum
- [Meningococcal vaccines for Africa](#) - Dominique Caugant
- [Development of meningococcal serogroup B vaccine](#) - Tone Tønjum and Dominique Caugant
- HIV, Modeling of infectious diseases - Jon Michael Gran
- Malaria and biostatistics - Arnaldo Frigessi
- Inflammation in rickettsial infections - Elisabeth Astrup, PhD/Pål Aukrust, Jan Kristian Damås (supervisors)
- Various projects on infectious disease and vaccination - Birgitte Freiesleben de Blasio
- Vaccines - Anne Spurkland



- Scandinavia's largest hospital with annually **1.2 million patient treatments**.
- More than **20,000 employees** - activities at more than **40 different locations**.
- Highly specialized hospital responsible for **50% of all medical and healthcare research** conducted at Norwegian Hospitals.
- Nationwide responsibility for a number of national and multi-regional assignments with **several national centers of competence**.

Department of Infectious Diseases, OUS (Ullevål)

Head of Dep.: Dag Kvale

Head of R&D: Anne Ma Dyrhol-Riise

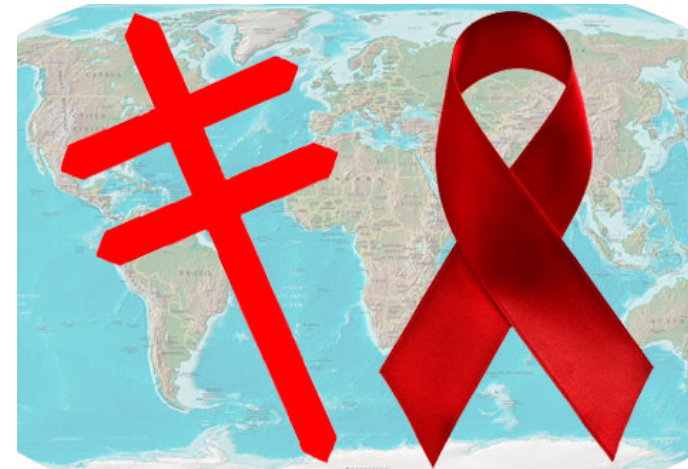
- 33 bed ward (including one isolation unit)
- Out patient clinic:
 - HIV (1600 patients)
 - Tuberculosis (regional MDR/XDR-TB responsibility)
 - Chronic viral hepatitis
- Center for Tropical and Imported Diseases



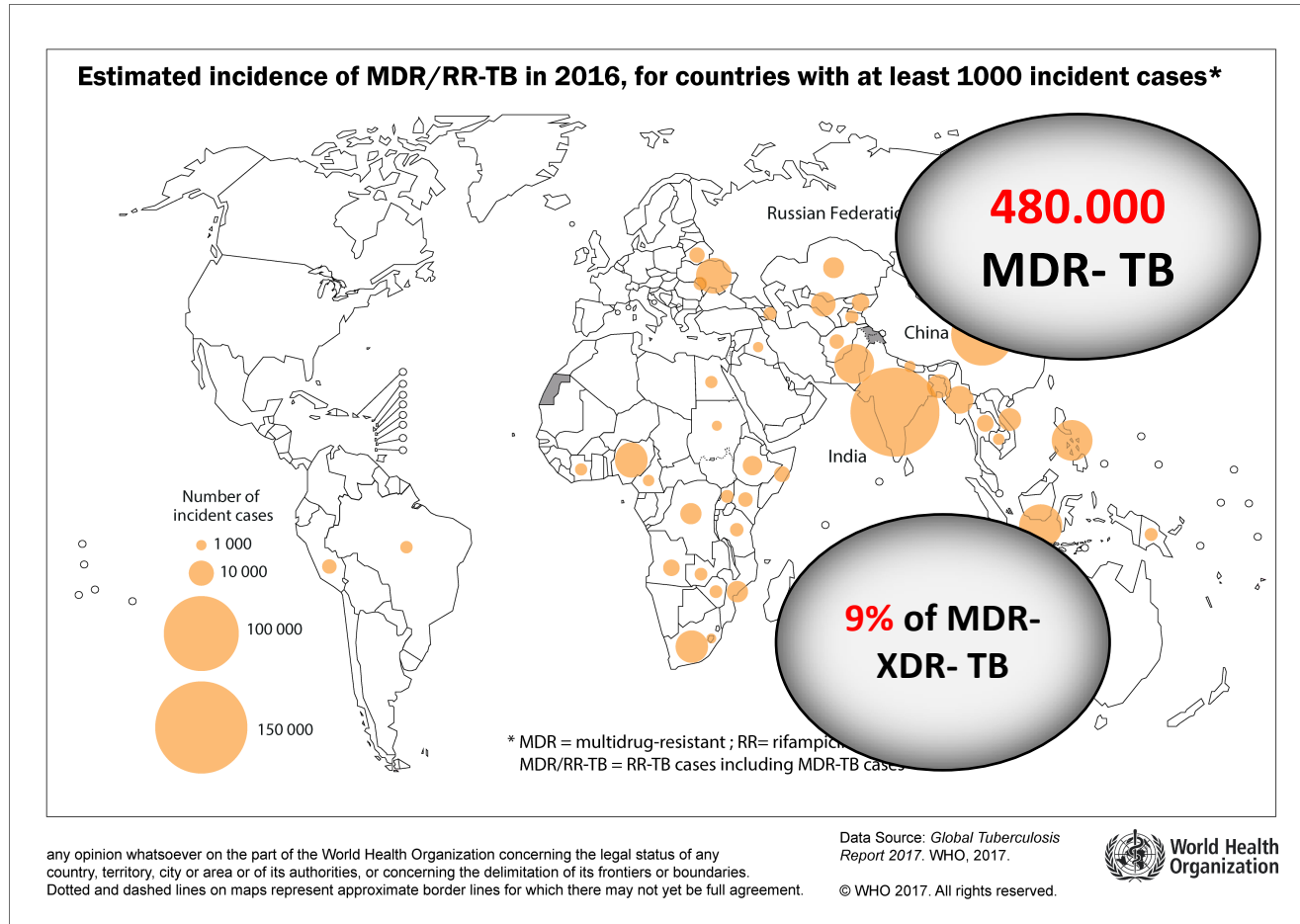


• Research groups at Inf. Dep. Oslo University Hospital (OUS)

- [Chronic infections](#) (TB/HIV) - Anne Margarita Dyrhol-Riise
- [Tropical /Imported Diseases and Reproductive Health](#) - Eyrun Flörecke Kjetland
- [The study group for rational antibiotic use](#) - Dag Berild



Global multi-resistant TB

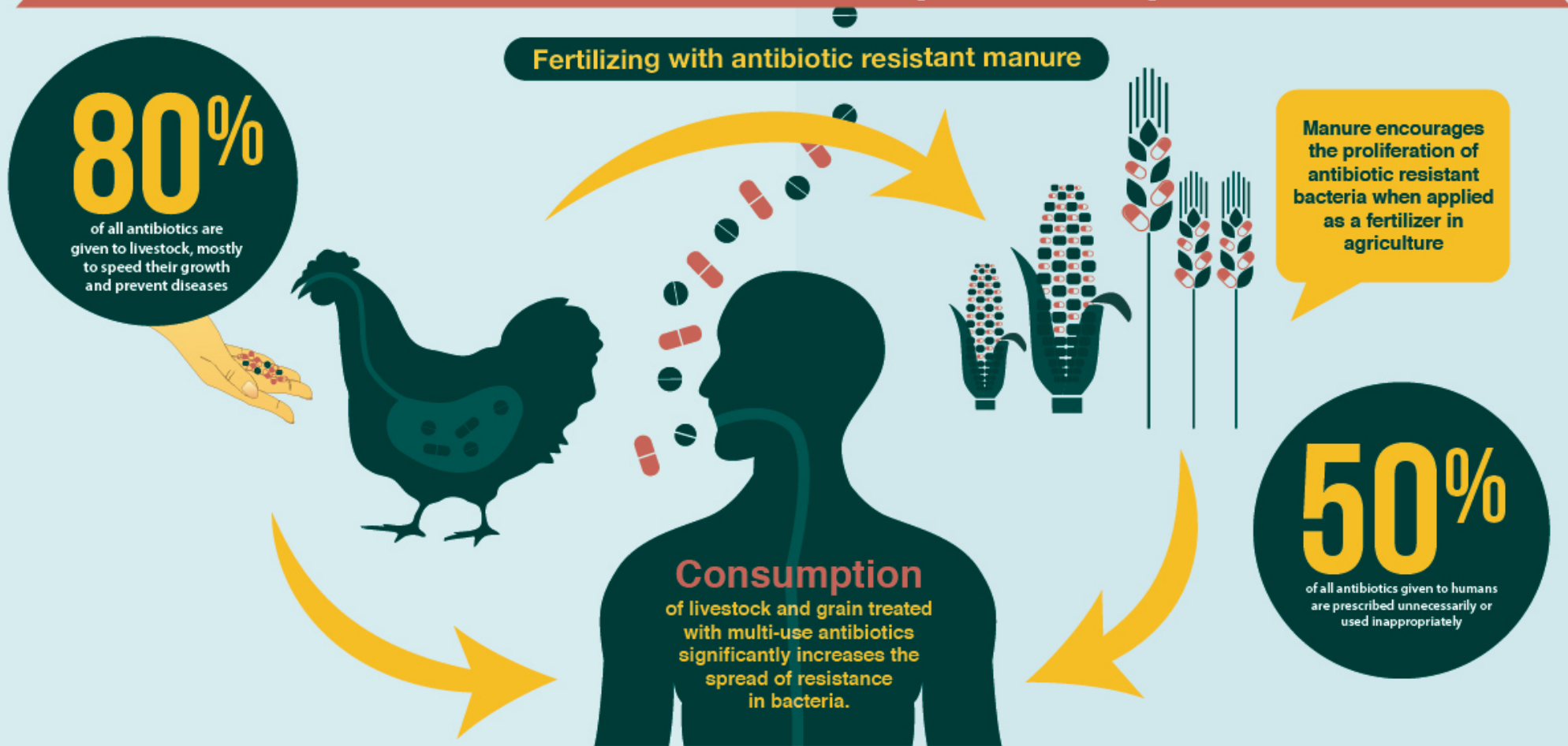


any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

ANTIBIOTIC RESISTANCE

Will Kill More People Than Cancer and Diabetes Combined By 2050

How Resistance Develops and Spreads

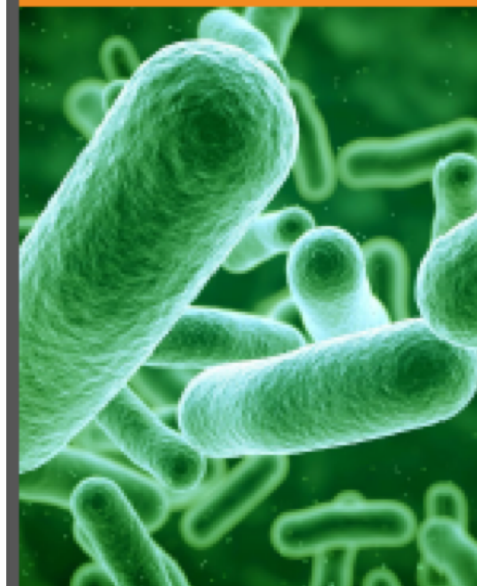




Turning the Tide of Antimicrobial resistance



GOES NORDIC 2



April 27-28 2017

Rotunda and mezzanine
The University of Oslo
Gaustad, Norway