RESISTANCE TO ANTIBIOTICS

We are all at risk of infections We can all help to reduce bacterial resistance

- 1. Antibiotics are drugs used to **treat infections caused by bacteria**. They are not effective on infections caused by viruses.
- 2. Only use antibiotics **if prescribed by your doctor and, if possible, after a culture test and antibiogram**. Never share your antibiotic treatment with friends or relatives because prescriptions are specifically for one person and one particular problem.
- 3. Always respect the dose and duration of the antibiotics as indicated by your doctor. Even if you feel better, you must never cut short the prescribed treatment.
- **4. Taking antibiotics when there is no real need** can lead the bacteria to change to protect itself from the antibiotic. This increases the phenomenon of antibiotic resistance.
- 5. It is the bacterium, not the person, that becomes resistant.
- 6. Anyone can be hit by an antibiotic-resistant infection.
- 7. The spread of resistant bacteria has a far-reaching impact on population health.¹
 - Antimicrobial resistance increases the severity and duration of infections.^{2,3}
 - We will have longer periods of infectivity, with a possible increase in the spread of the infection by resistant strains among the population in and outside hospitals. 4,5,6
 - It will prevent treatments, such as long and complex surgical procedures, especially in immunocompromised patients, the elderly, organ transplants, antiblastic chemotherapy and the use of invasive instruments.
 - In developing countries, there is little control over the availability and use of antibiotics. This has led to a high level of resistance, above all to older antibiotics, and to the spread of resistant bacteria through tourism. ⁵

¹WHO, Antimicrobial resistance, Global Report on Surveillance, 2014; IX.

² Swartz MN. Use of antimicrobial agents and drug resistance. N Engl J Med 1997;337:491-2.

³ Cohen ML. Epidemiology of drug resistance: implications for a post-antimicrobial era. Science 1992;257:1050-5.

⁴ Weekly epidemiological record 1997;72:333-40, WHO Geneva

⁵ Cohen ML. Epidemiology of drug resistance: implications for a post-antimicrobial era. Science 1992;257:1050-5

⁶ Shanahan PMA et al. The global impact of antibiotic-resistant bacteria: their sources and reservoirs. Rev Med Microbiol 1994;5:174-82