STEMMING THE SUPERBUG TIDE

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AMR Will Keep Increasing If No Effective Actions Are Put in Place

Resistance proportions for eight antibiotic-bacterium combinations in the OECD



○2005 **●**2015 **●**2030

Resistance to 2nd and 3rd line Treatments Will Grow the Most





- 67 000 deaths per year
- 3.5B USD PPPs per year



Health and economic burden of AMR



Only 9 OECD Countries Have Developed and Fund a 'One-health' AMR Action Plan



Plan objectives, with an operational implemented, involves relevant sectors and has a defined monitoring and evaluation process

plan and monitoring arrangements

Policy Approaches to Tackle Irrational Use of Antimicrobials



Public Health Policies to Tackle AMR Save Lives...





... And Decrease Healthcare Expenditure



Note: columns show the median value across 33 OECD and EU countries; whiskers show min and max values Source: OECD. Stemming the Superbug Tide: just a few dollars more. 2018. <u>oe.cd/amr-2018</u>

Tackling AMR is a Very Good Investment for OECD and EU Countries



Effects of individual AMR control policies in Slovenia

Improving hand hygiene is one of the most effective strategies to prevent hospital-acquired infections

Stewardship programmes aim to increase awareness and to rationalise prescription practices among health care personnel

Enhanced environmental hygiene encompasses the decontamination, disinfection, cleaning and sterilisation of hospital environments and equipment

Delayed antimicrobial prescribing avoids unnecessary consumption of antimicrobials in outpatient and primary care settings

Mass media campaigns raise public awareness about the dangers associated with inappropriate antimicrobial prescription

Rapid diagnostic tests determine, within hours, whether an antimicrobial treatment should be initiated and which should be used



A 4-Pronged Approach is Needed to Steam the Superbug Tide



A Mixed Intervention Package Would Save up To 47000 Lives per Year in OECD and EU



A Mixed Intervention Package Would Decrease Healthcare Expenditure by 3 USD/Capita/Year





- AMR is increasing in the majority of OECD countries and beyond
- The projected rise in resistance to 2nd and 3rd line antibiotics is particularly worrisome
- Interventions to increase hygiene show the most positive effects but do not address some of the key determinants of AMR
- Public health interventions to tackle AMR are a costeffective (and very often cost-saving) investment in OECD countries
- Combining interventions in a comprehensive public health package would provide better results