STEMMING THE SUPERBUG TIDE
JUST A FEW DOLLARS MORE

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Resistance to 2\textsuperscript{nd} and 3\textsuperscript{rd} line Treatments Will Grow the Most

- 2\textsuperscript{nd} and 3\textsuperscript{rd} line antibiotics are our back-up option should 1\textsuperscript{st} line antibiotics stop being effective

- Resistance to these antibiotics is forecast to grow by 75\% (2\textsuperscript{nd} line) and 225\% (3\textsuperscript{rd} line) by 2030, compared to 2005

- Resistance in EU/EEA is forecast to grow more than in OECD and G20 countries

Note: the grey-shaded area indicates the projection period
Source: OECD. Stemming the Superbug Tide: just a few dollars more. 2018. oe.cd/amr-2018
Use of Antibiotics To Treat Diseases For Which They Are Not Beneficial Is a Key Driver of AMR

Note: [#] number of studies
Source: Cecchini & Lee, Promoting rational use of antibiotics, OECD, 2017

Range of inappropriate use of antibiotics by type of healthcare service in OECD

- Dialysis [3]
- Pediatric [9]
- Critical care [5]
- Ambulatory [3]
- Hospital/Tertiary [27]
- Long-term care [13]
- General practice [4]
AMR Costs 1.1 Billion Euros per Year to the Healthcare Systems of EU/EEA Countries

Source: OECD. Stemming the Superbug Tide: just a few dollars more. 2018. oe.cd/amr-2018
<table>
<thead>
<tr>
<th>Healthcare settings</th>
<th>Community setting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Improved hand hygiene</strong></td>
<td><strong>Delayed prescriptions</strong></td>
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<td>to promote and facilitate hand-washing in healthcare professionals</td>
<td>to decrease consumption of antibiotics for viral infections</td>
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<td><strong>Enhanced hygiene</strong></td>
<td><strong>Mass media campaigns</strong></td>
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<td>to minimize cross-patient transmission of infections through medical devices</td>
<td>to make people aware of the risks associated with imprudent use of antibiotics</td>
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<td><strong>Stewardship programmes</strong></td>
<td><strong>Rapid diagnostic tests</strong></td>
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<td>to promote prudent use of antibiotics and end decades of over-prescription</td>
<td>to detect whether an infection requires antibiotics or not, in primary care settings</td>
</tr>
</tbody>
</table>

Source: OECD. Stemming the Superbug Tide: just a few dollars more. 2018. oe.cd/amr-2018
The Mixed-Package Would Save up to 27,000 Lives per Year in EU/EEA…

The size of the rectangle and the figure indicate the number of avoided deaths in each country.

Source: OECD. Stemming the Superbug Tide: just a few dollars more. 2018. oe.cd/amr-2018
... And Save 1.4 Billion* Euros/year to the Budget of Healthcare Systems of EU/EEA Countries

Economic assessment of the ‘mixed-intervention’ package: just a few dollars more produce substantial savings in healthcare expenditure

Note: * Including effect on susceptible infections

Source: OECD. Stemming the Superbug Tide: just a few dollars more. 2018. oe.cd/amr-2018
Just a Few Dollars More to Stem the Superbug Tide and Save Millions of Lives

- AMR will keep increasing globally; particularly in EU/EEA countries
- 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 inappropriate use of antibiotics
- Public health interventions to tackle AMR are a cost-effective (and very often cost-saving) investment in EU/EEA countries
- Combining interventions in a comprehensive public health package provides best results

More info at: oe.cd/amr-2018