

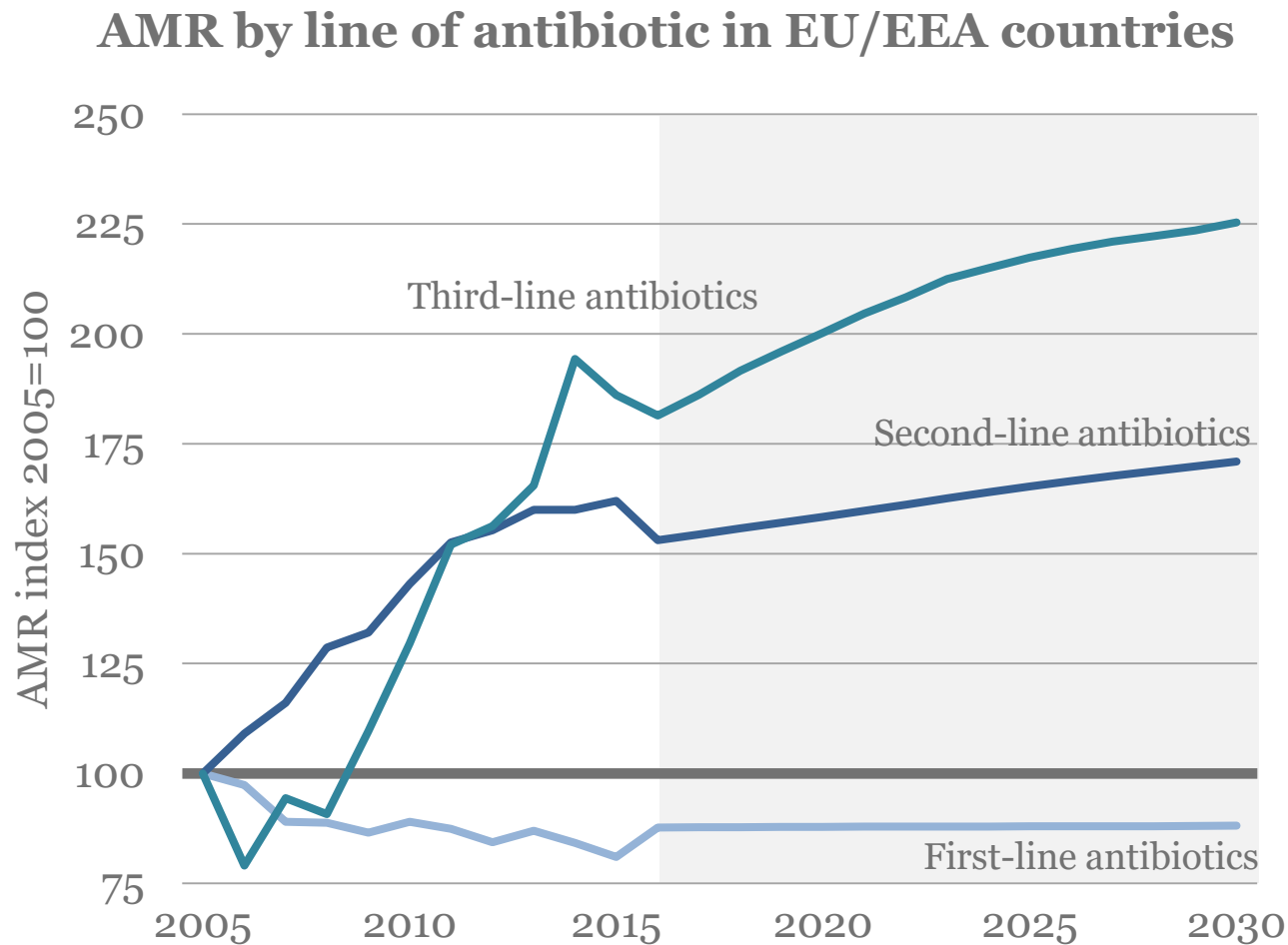


STEMMING THE SUPERBUG TIDE JUST A FEW DOLLARS MORE

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



- 2nd and 3rd line antibiotics are our back-up option should 1st line antibiotics stop being effective
- Resistance to these antibiotics is forecast to grow by 75% (2nd line) and 225% (3rd line) by 2030, compared to 2005
- Resistance in EU/EEA is forecast to grow more than in OECD and G20 countries

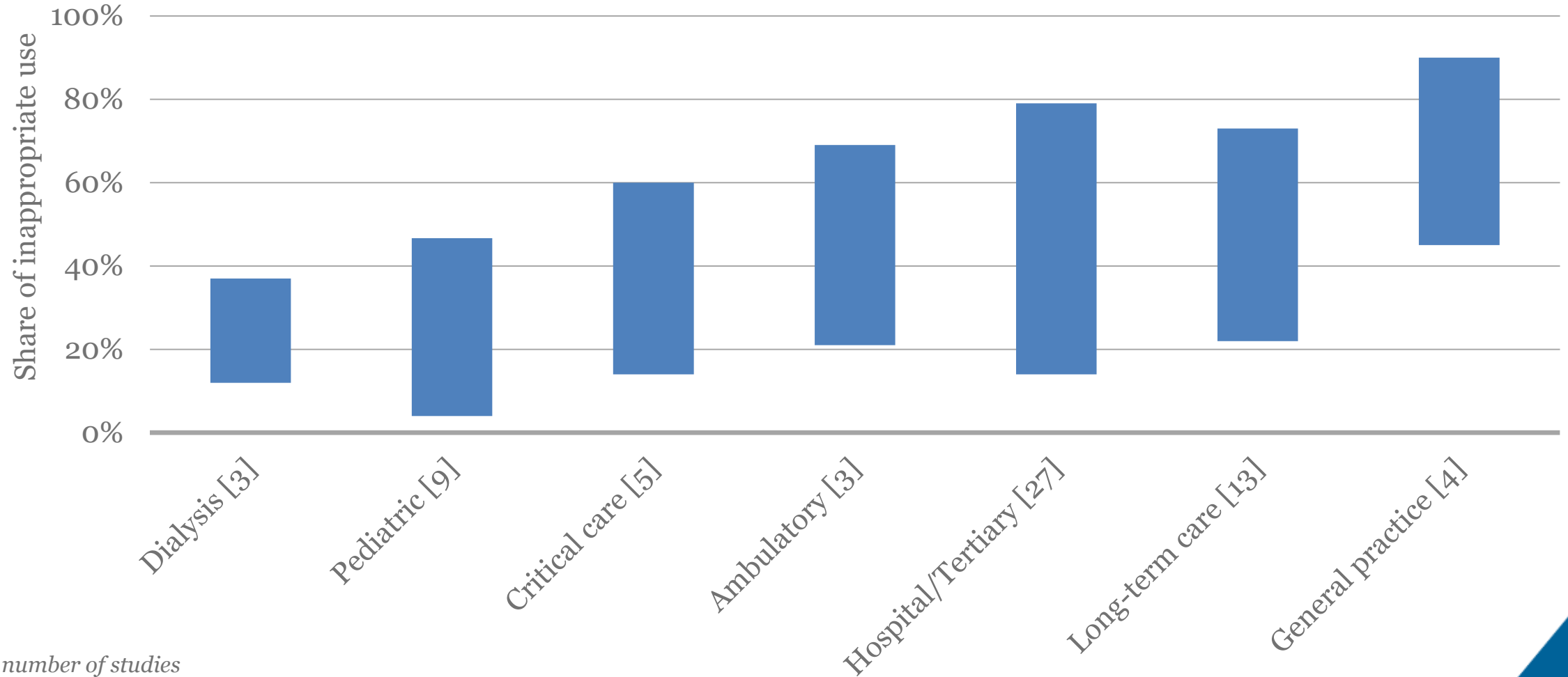
Note: the grey-shaded area indicates the projection period

Source: OECD. Stemming the Superbug Tide: just a few dollars more. 2018. [oe.cd/amr-2018](https://www.oecd.org/amr-2018)



Use of Antibiotics To Treat Diseases For Which They Are Not Beneficial Is a Key Driver of AMR

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

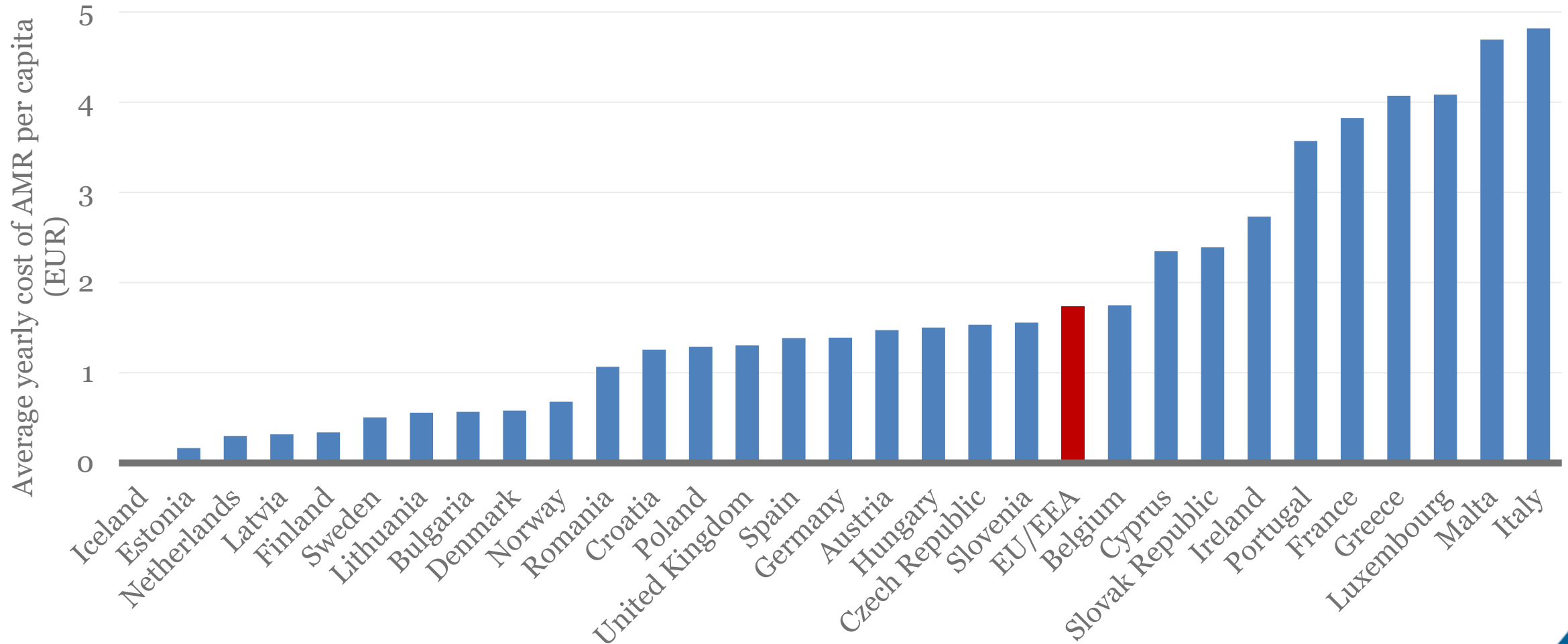


Note: [#] number of studies

Source: Cecchini & Lee, Promoting rational use of antibiotics, OECD, 2017



AMR Costs 1.1 Billion Euros per Year to the Healthcare Systems of EU/EEA Countries





Policy Approaches to Tackle Imprudent Use of Antimicrobials

Healthcare settings



Improved hand hygiene

to promote and facilitate hand-washing in healthcare professionals



Delayed prescriptions

to decrease consumption of antibiotics for viral infections

‘Mixed-package’



Enhanced hygiene

to minimize cross-patient transmission of infections through medical devices



Mass media campaigns

to make people aware of the risks associated with imprudent use of antibiotics



Stewardship programmes

to promote prudent use of antibiotics and end decades of over-prescription

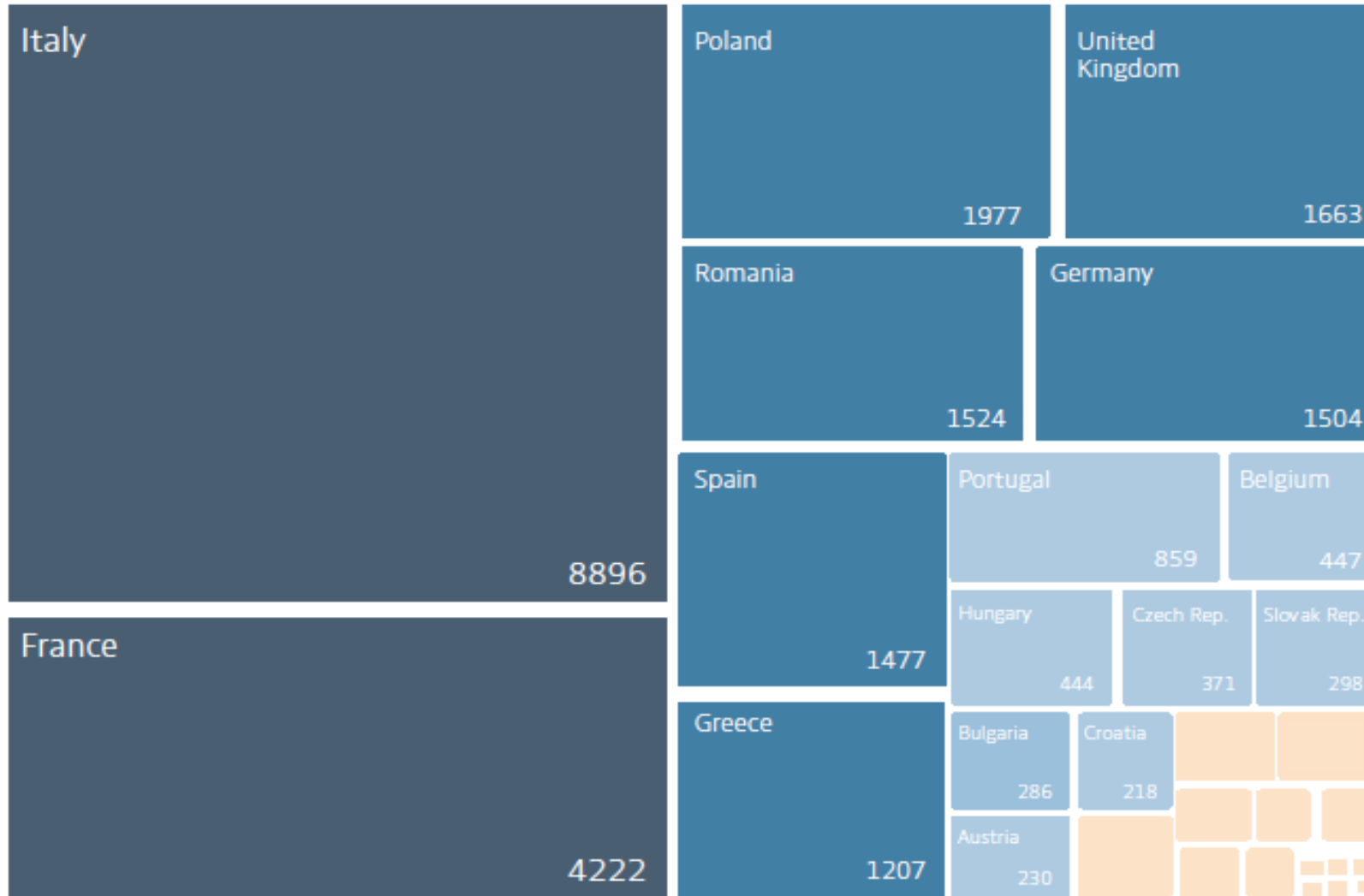


Rapid diagnostic tests

to detect whether an infection requires antibiotics or not, in primary care settings



The Mixed-Package Would Save up to 27,000 Lives per Year in EU/EEA...



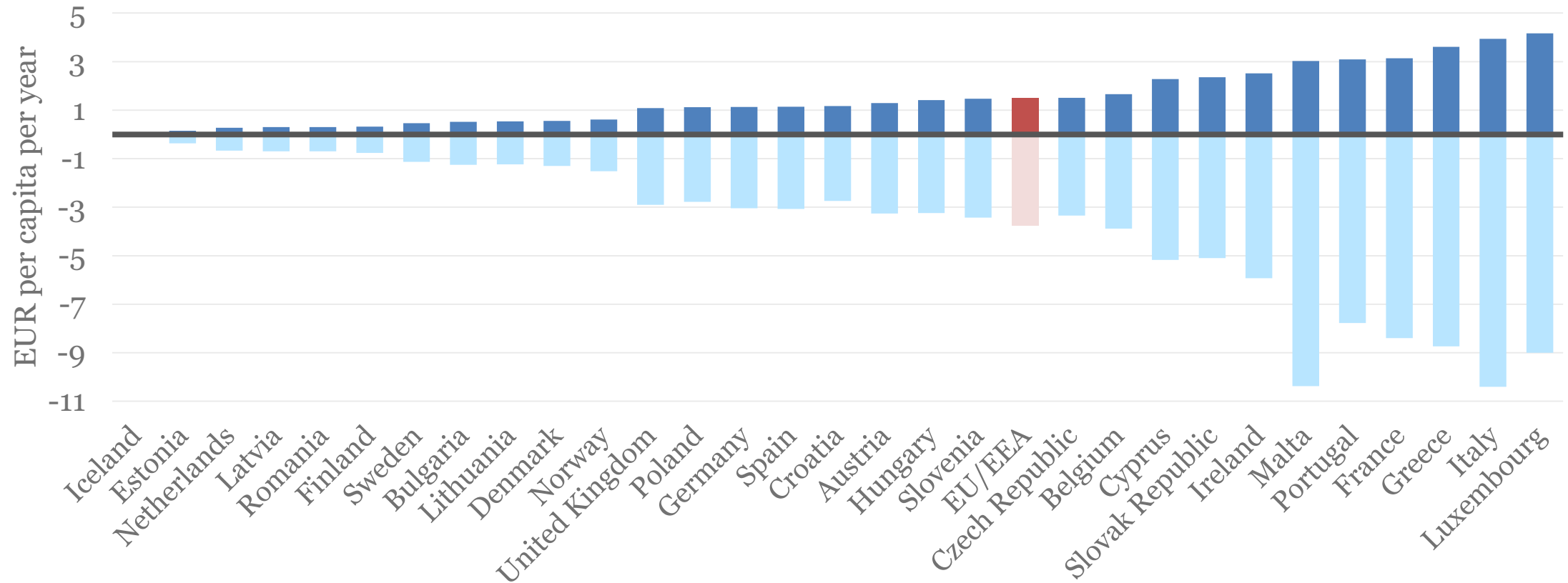
The size of the rectangle and the figure indicate the number of avoided deaths in each country

Note: The countries shown in orange are, by descending order: **The Netherlands** (193), **Ireland** (170), **Sweden** (149), **Denmark** (102), **Lithuania** (79), **Slovenia** (77), **Finland** (74), **Cyprus** (63), **Norway** (54), **Latvia** (33), **Malta** (25), **Luxembourg** (15), **Estonia** (14) and **Iceland** (1).



... 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

■ Implementation cost ■ Impact on healthcare expenditure

Source: OECD. Stemming the Superbug Tide: just a few dollars more. 2018. [oe.cd/amr-2018](https://www.oecd.org/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