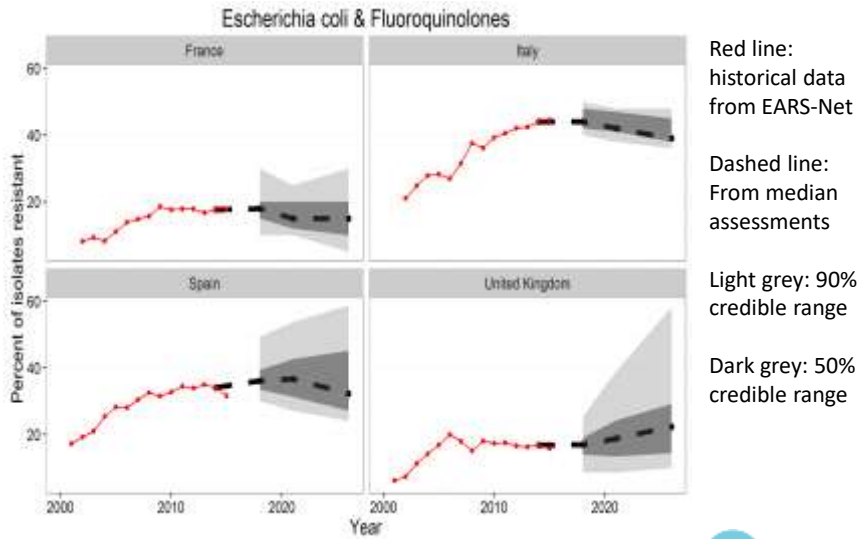


Why use elicitation?

- Well, for example...
 - Technology is at early stage and no trial data with human subjects exists
 - Technology is in use but data has not been collected
 - Technology is in use but randomisation is not possible and causal attribution is problematic
 - Interest is in long-run consequences beyond trial endpoints
 - Results do not generalise from the trial setting to the target setting

Example: Anti-Microbial Resistance

- Technology is at early stage and no trial data with human subjects exists
 - Strong pressure for government to provide upfront payment early in the development cycle
- Technology is in use but data has not been collected
 - Trial data is often noninferiority trials or trial data does not even exist for older antibiotics
- Technology is in use but randomisation is not possible and causal attribution is problematic
 - Stewardship interventions are public health interventions and applied at the population level
- Interest is in long-run consequences beyond trial endpoints
 - Interest is in preventing the spread of resistant pathogens and protecting the lastline antibiotics (eg Colistin)
- Results do not generalise from the trial setting to the target setting
 - Response to treatment depends on local characteristics of the epidemic



Experts provided assessments for 2018, 2021, and 2026.



- Elicitations led by Abby Colson
- This research has received support from the Innovative Medicines Initiative Joint Undertaking under grant agreement n°115618 [Driving re-investment in R&D and responsible antibiotic use – DRIVE-AB – www.drive-ab.eu], resources of which are composed of financial contribution from the European Union's Seventh Framework Programme (FP7/2007-2013) and EFPIA companies' in kind contribution.

Can we really believe experts?

- The history of medicine is littered with experts who were confident but wrong
 - Venice treacle as a remedy for bubonic plague
 - Radical mastectomy for breast cancer
 - Thalidomide is “completely safe”



Freely licensed – see https://commons.wikimedia.org/wiki/File:Official_portrait_of_Michael_Gove_crop_2.jpg

Expert judgement is just another form of data

- Follow protocols in eliciting expert judgement
 - Protocols do exist (though not in health)
- Don't rely on *one* expert
 - Ask multiple people and pool or compare experts
- Validate experts
 - Can experts give right answers where the answer is known?
- Monitor conflicts of interest
 - Select your expert panels accordingly
- Recognise perhaps there are some subjects on which there are no experts
 - What will be the rate of knee replacements in the year 2500?