



DTU Food
National Food Institute

EQAS 2014

Enterococci

EURL-AR workshop, April 23-24th 2015

Aims of the EU RL:

- ✓ Monitoring the quality of AST results by the NRLs
- ✓ Improvement of performance if needed
- ✓ Determination of topics for research and elaboration

Aims of the SWISS NRL:

- ✓ Monitoring the quality of our AST compared to NRLs (relevant authorities)
- ✓ Improvement of performance (change of personnel, new methods, new legislation)
- ✓ Topics for research and elaboration
- ✓ Experience with organisation of nationwide EQAS

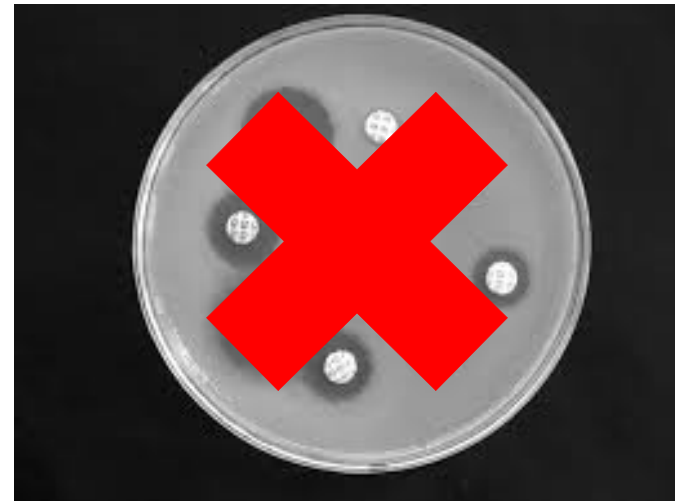


EQAS Enterococci 2014: what is new?

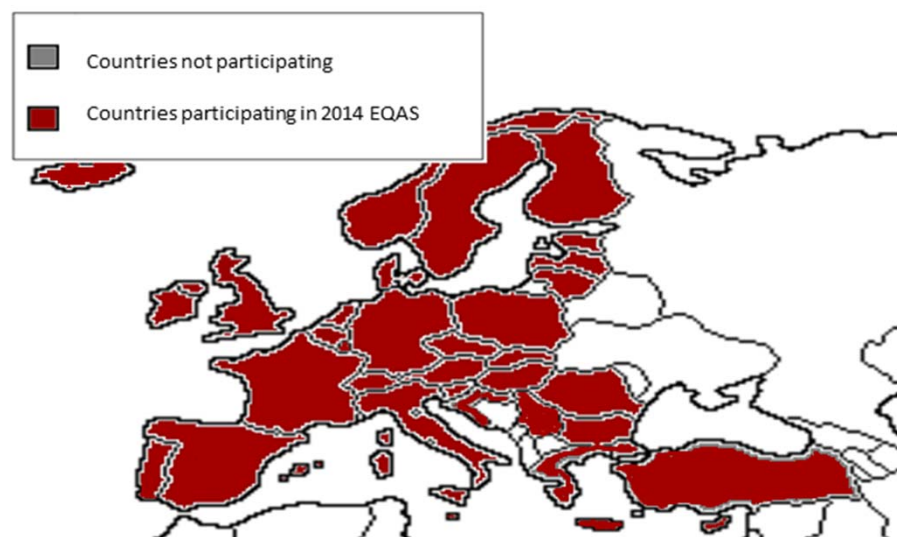
- ✓ New panel of antibiotics (EU regulation EC652/2013)



- ✓ Disk diffusion not accepted



Participation



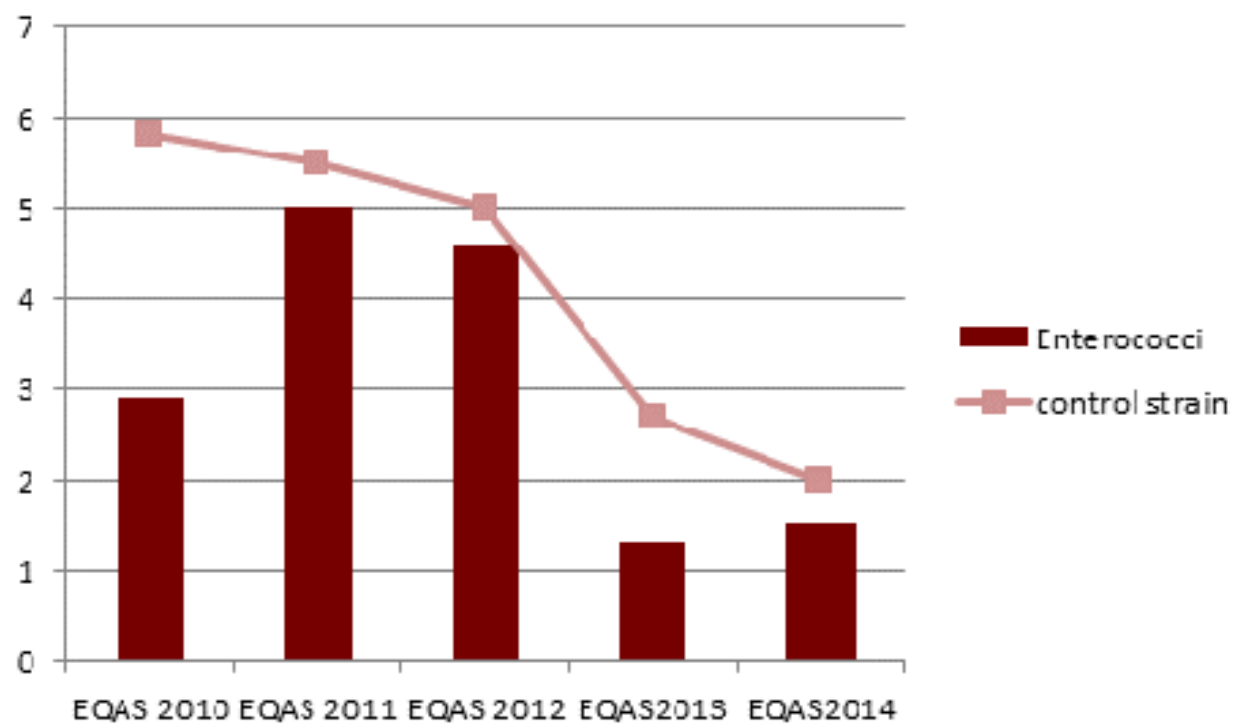
29 countries

(2012 26 countries)

31 sets of Enterococci AST data but two of these excluded due to upload of **disk diffusion data**

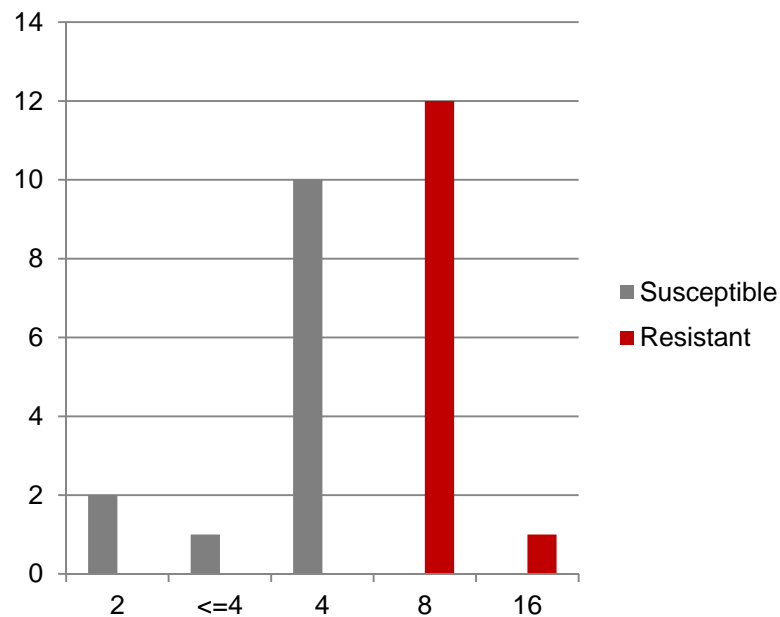


Comparison to former EQASs



Ampicillin/ENT 8.7

- 26 laboratories reported results
- This strain had an expected interpretation as "R" and an expected MIC value of 8 mg/L
- Thirteen laboratories each reported this strain as either as "S" or "R"
- Result close to breakpoint causing 50% deviation
- Omitted from remaining analysis in the report



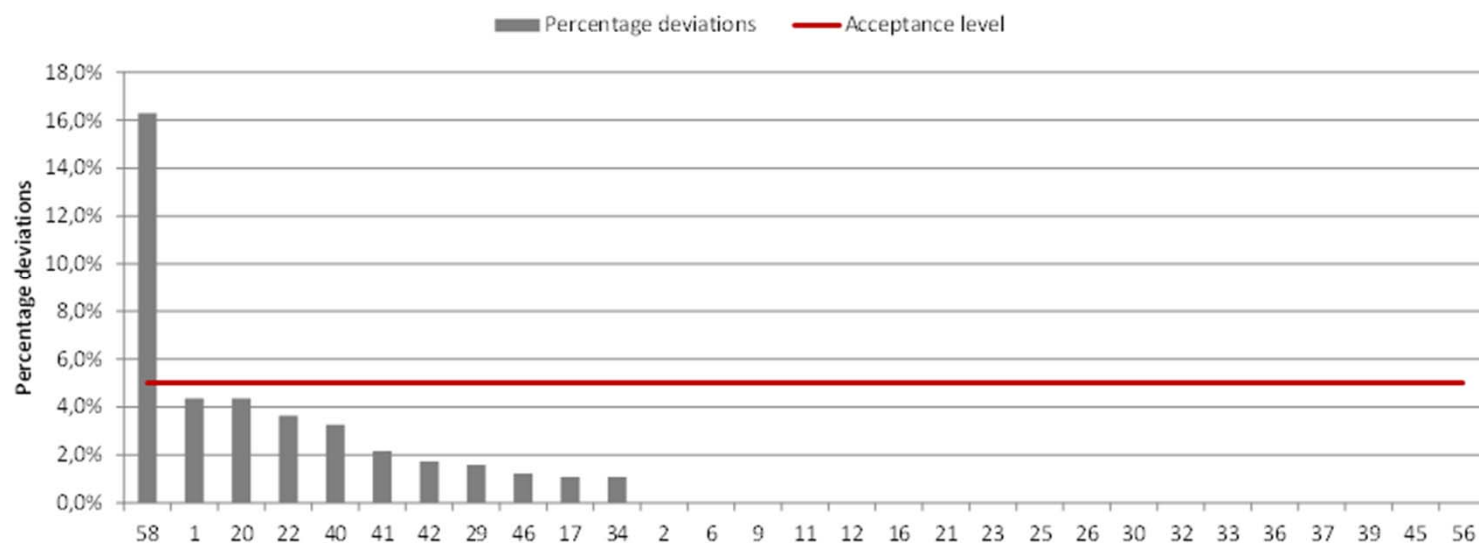
ENT 8.1, ENT 8.2 and ENT8.3

- observed heterogenous colonie morphology
- but results for ID and MIC were equivalent
- ENT8.2 showed low MIC for vancomycin once at FDA and two labs
- ENT8.1 showed low MIC for teicoplanin at one lab
- heteroresistance for vancomycin and teicoplanin discussed

Performance of identification very good (100%)

- Deviations only caused by wrong data input

Enterococci results – pr. lab



One laboratory #58 above acceptance limit and considered as an outlier. So far the deviations by this lab were reported to be caused by a densitometer calibration issue and wrong pipette tips used in the procedure



Aims of the EU RL:

- ✓ Monitoring the quality of AST by the NRLs

28 laboratories < 5% deviation level

10 laboratories < 5% but >1% deviation level

18 laboratories 0% !

- ✓ Improvement of performance if needed

1 laboratory > 5% deviation level

2 laboratories used DD

- ✓ Topics for research and elaboration

Heteroresistance to vancomycin/teicoplanin

What about other enterococci species for ID?

Thank you for your attention!

