Antimicrob Resist Infect Control. 2013 Feb 14;2(1):6. doi: 10.1186/2047-2994-2-6.

The rise of carbapenem resistance in Europe: just the tip of the iceberg?

Magiorakos AP, Suetens C, Monnet DL, Gagliotti C, Heuer OE; EARS-Net Coordination Group and EARS-Net participants

European Centre for Disease Prevention and Control, Tomtebodavägen 11A, Stockholm SE-171 83, Sweden. anna-pelagia.magiorakos@ecdc.europa.eu.

The European Antimicrobial Resistance Surveillance Network (EARS-Net) collects data on carbapenem resistance from invasive bacterial infections. Increasing percentages of carbapenem resistance in K. pneumoniae isolates were reported from progressively more countries in Europe between 2005 and 2010. A trend analysis showed increasing trends for Greece, Cyprus, Hungary and Italy (p < 0.01).

EARS-Net collects data on invasive bacterial isolates, which likely correspond to a fraction of the total number of infections. Increasing reports of community cases suggest that dissemination of carbapenem-resistant K. pneumoniae has penetrated into the community. Good surveillance and infection control measures are urgently needed to contain this spread.