

Movimento dei pazienti e movimento dei batteri

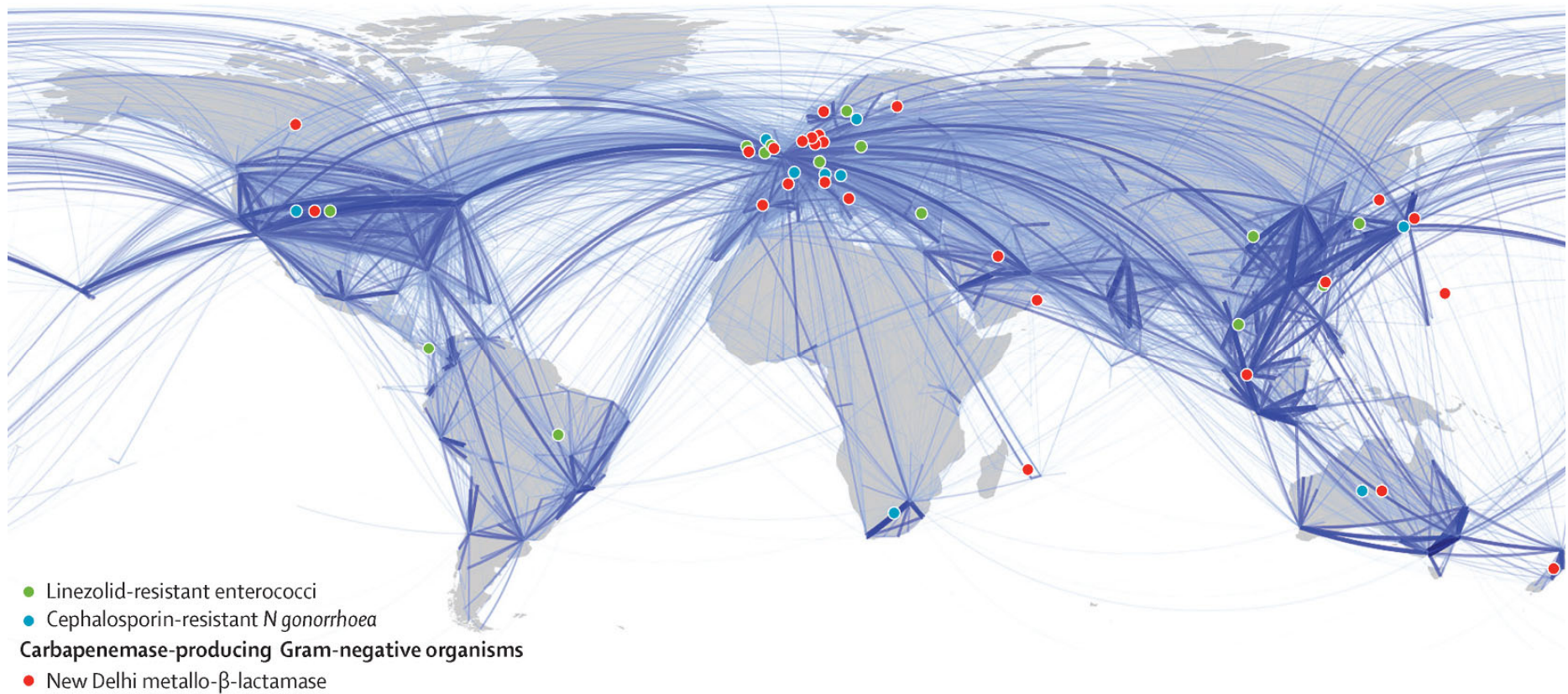
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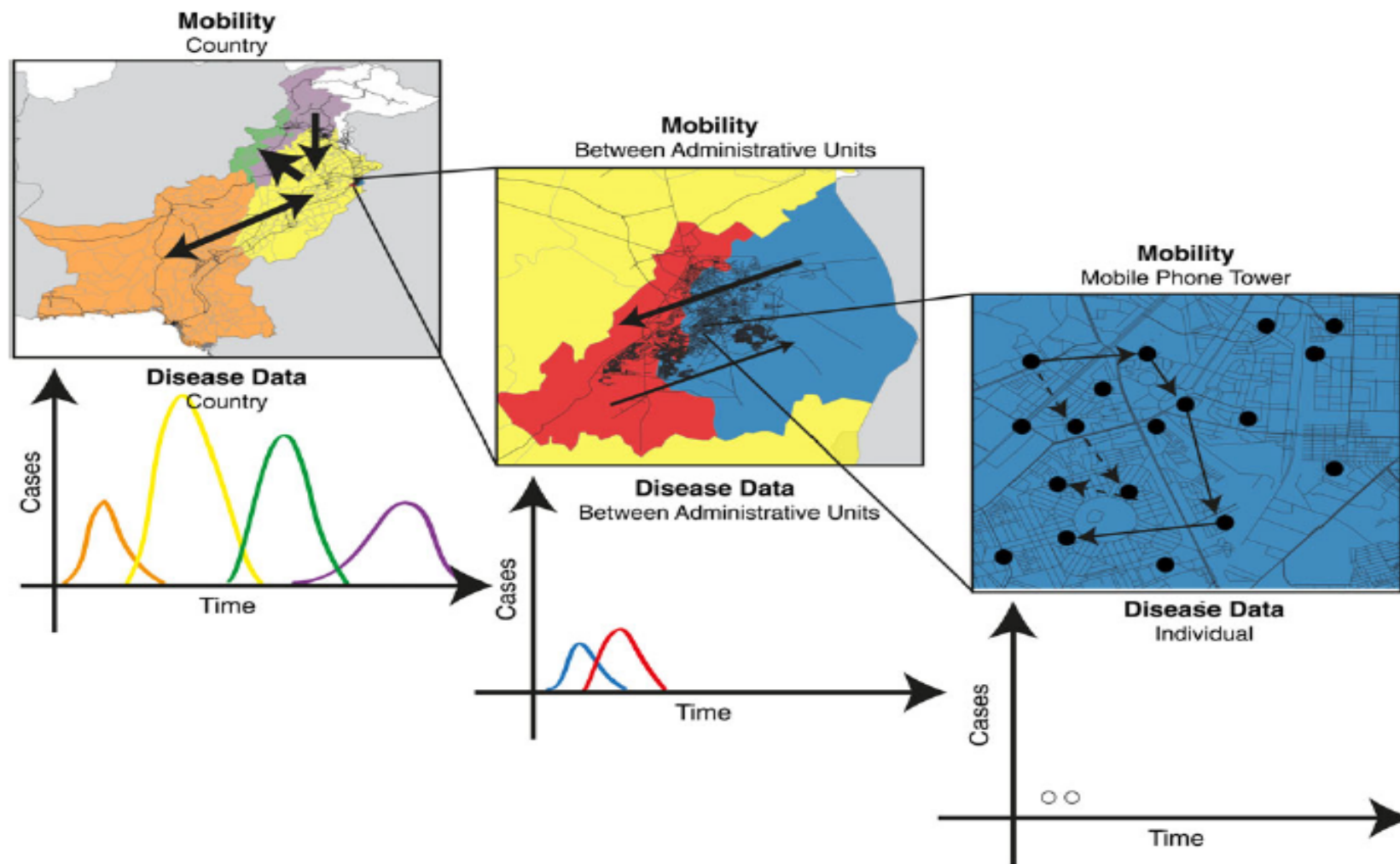
Toscana (on air), 5/6/2020

“Antibiotico resistenza e nuove emergenze: enterobatteri NDM”



Le rotte globali dei viaggi e l'emergenza dell'antibiotico-resistenza

Holmes AH et al. Lancet 2016



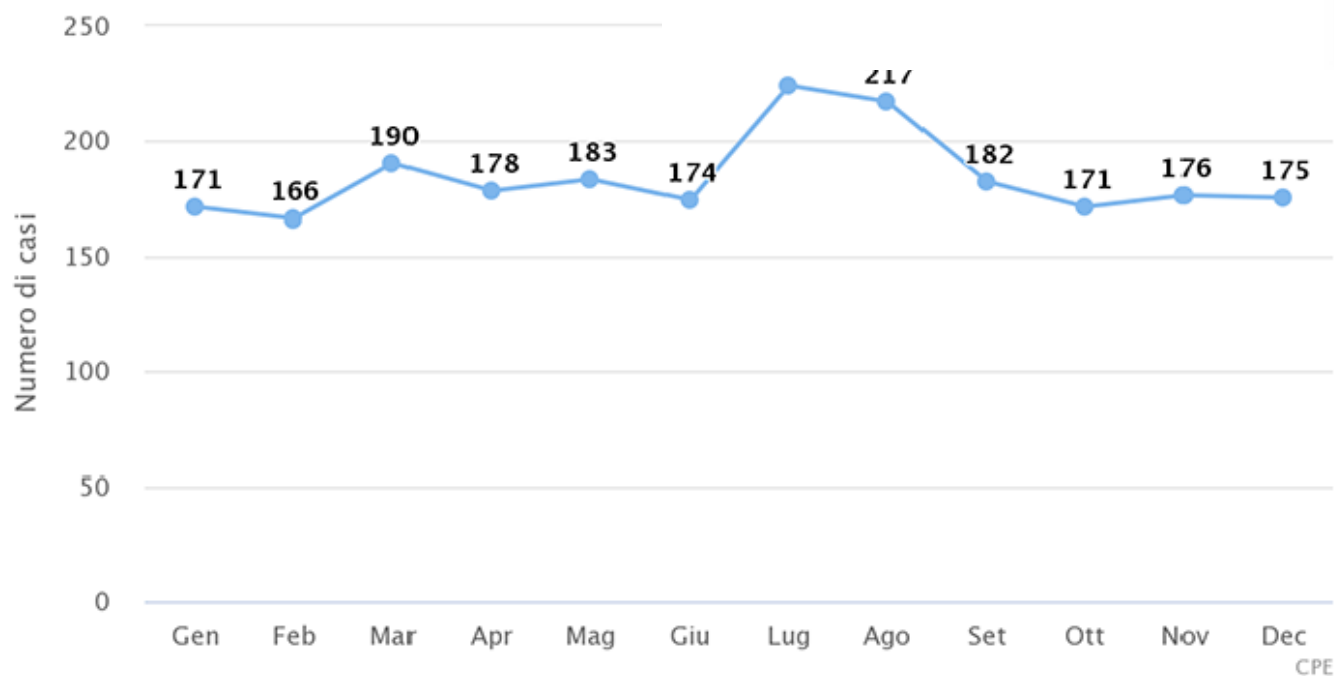
Wesolowski et al. JID 2016, S414–S420, <https://doi.org/10.1093/infdis/jiw273>

Surveillance and control of infections caused by carbapenemase-producing bacteria in Italy

- Since 2013
- Coordinated at the national level by the Italian National Institute of Health (Istituto Superiore di Sanita, ISS)
- Notification of all BSI due to *Klebsiella pneumoniae* or *Escherichia coli* that are:
 - resistant to imipenem and/or meropenem and/or ertapenem and/or carbapenemase-producing (phenotype- or genotype-confirmed)

CPE, Sorveglianza nazionale delle batteriemie da enterobatteri produttori di carbapenemasi. I dati 2018

Figura 1: Numero di casi di batteriemie da enterobatteri di diagnosi



Klebsiella pneumoniae
KPC 95%
Altro 5% (NDM 0,6%)

<https://www.epicentro.iss.it/antibiotico-resistenza/cpe-sintesi>

Raw data



Excluding "day-hospital" stays



Excluding "lower quality" codes and patients with errors in dates of admission/discharge



Excluding entries with length of stay (LOS) deviations and patients with only one admission/discharge

2015

- 9 306 226 records
- 6 536 899 patient codes*

- 7 200 700 entries
- 5 158 641 patient codes*

- 6 970 154 entries
- 5 127 569 patients

- 13 804 427 entries
- 9 130 236 patients

2016

- 9 061 780 records
- 6 366 093 patient codes*

- 7 075 991 entries
- 5 057 652 patient codes*

- 6 834 278 entries
- 5 025 137 patients

- 7 337 935 entries
- 2 663 760 patients



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- 2 663 760 patients

Checks

Date errors
Hospital code errors
Single-visit patients

Check hospital stays

Split stay
Duplicate stay
Same-day admission
Same-day discharge
Admission before the previous discharge

- 2 446 336 patient movements
- 129 969 hospital pairs

- 1382 ospedali geolocalizzati

