

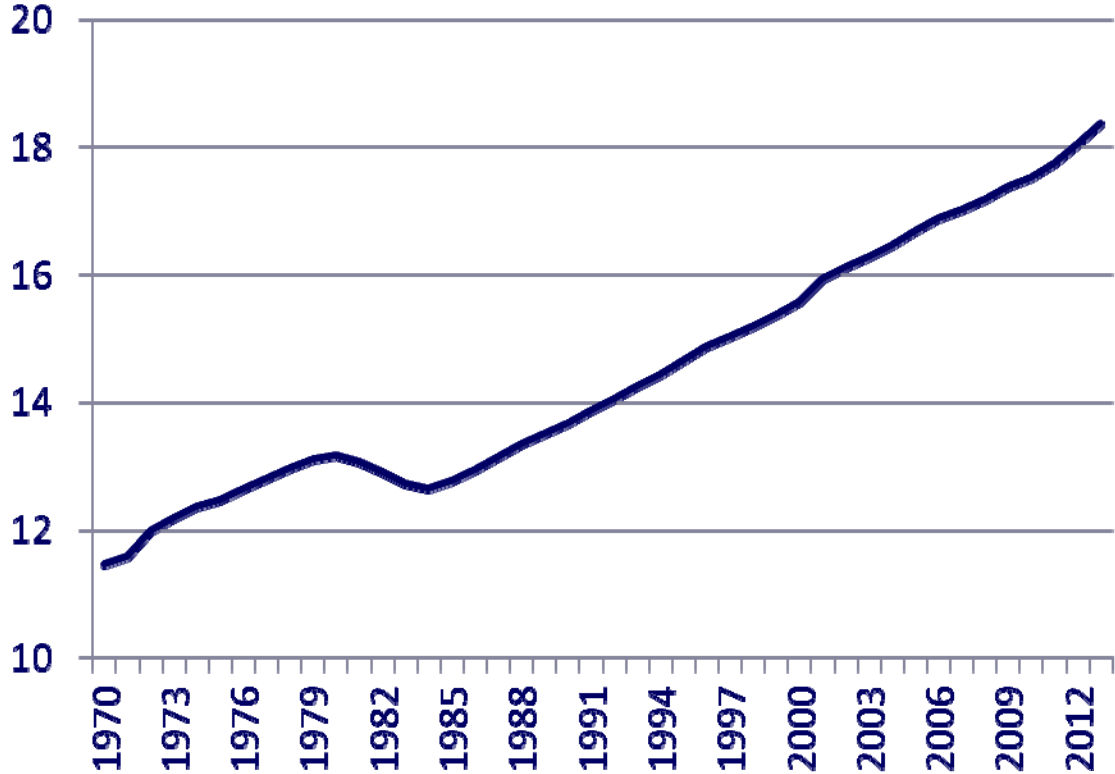


**Limiting the spread and development of drug resistance burden in Europe: the role of infection control, prevention and surveillance- focus on long term care facilities**

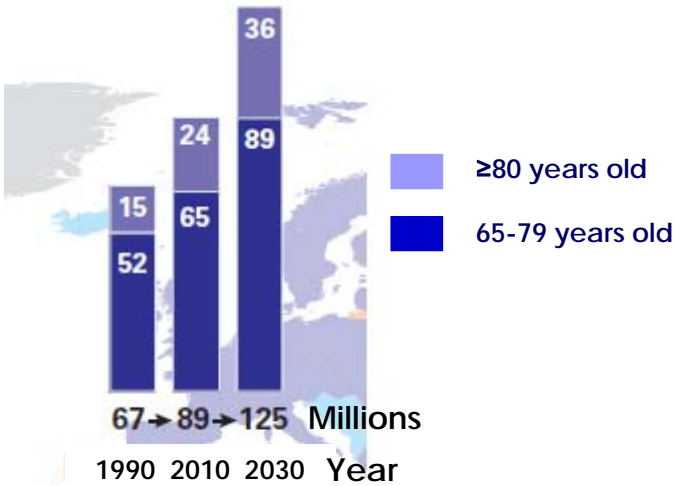
Anne Santerre Henriksen- Florence February 17th

# Ageing population in EU

## Total % of population above 65 years age (EU28)



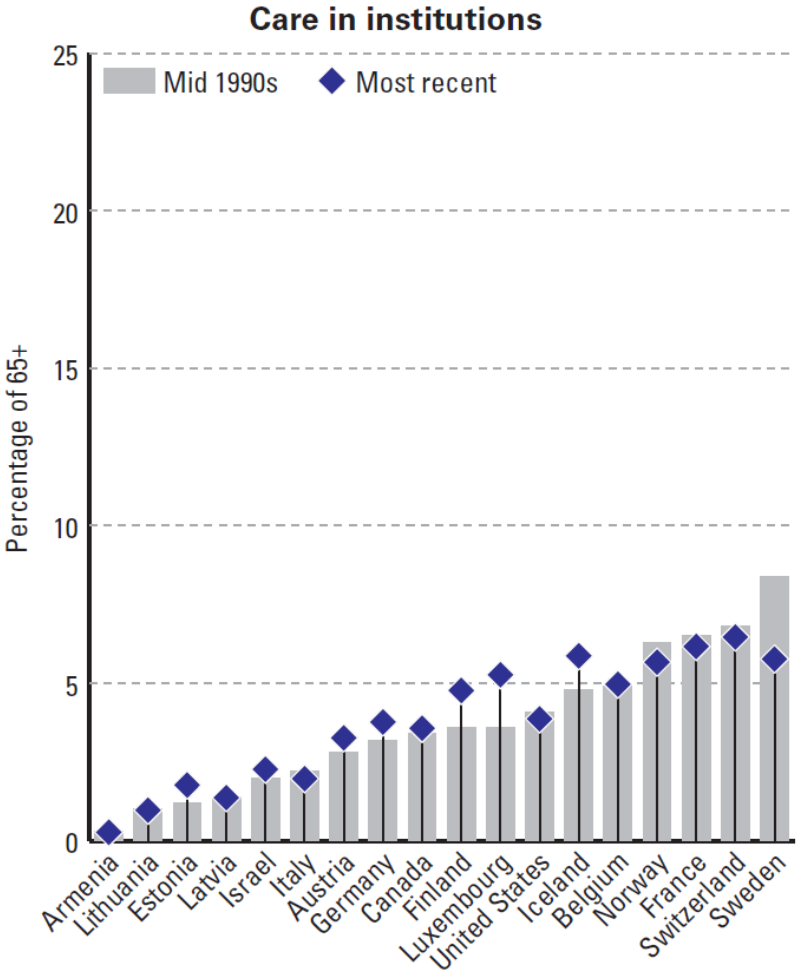
OECD indicators accessed Feb 2017



Rodrigues et al. Facts and figures on healthy ageing and Long-term care 2012



# Ageing population in EU



About 4% of people above 65 years old receive care in institutions

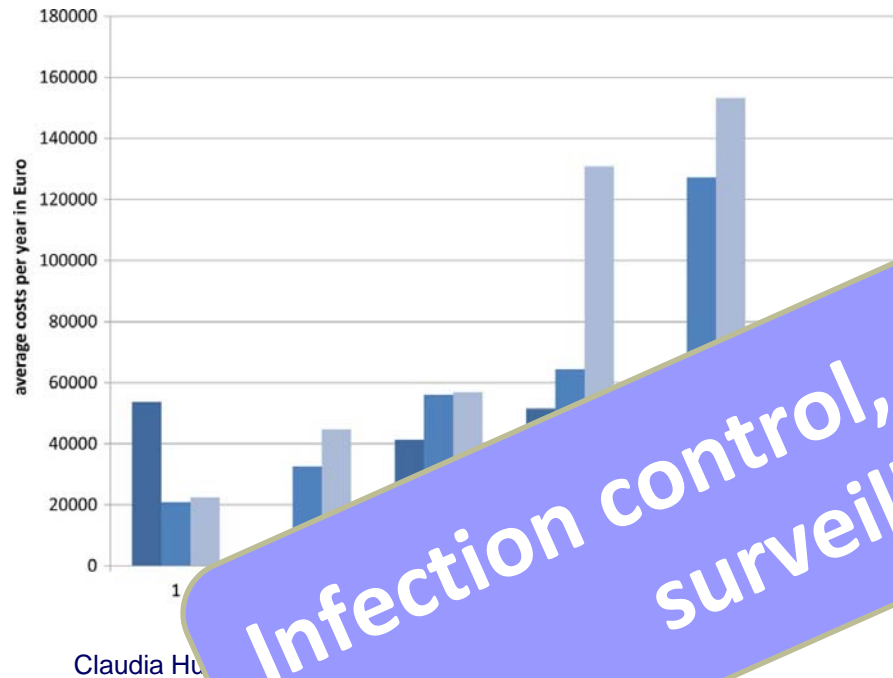


**Around 4 Millions**

Rodrigues et al. Facts and figures on healthy ageing and Long-term care 2012

# Economic burden

Multidrug-resistant organism-related costs per year (2011–2013) and nursing homes (1–6)



- Cost of multidrug-resistant organisms (MDRO) in nursing homes in Germany

• 153,263.74 Euro per nursing home per year =

Costs between € 12 and € 153 263.74

Main cost drivers staff capacity and isolation materials

Infection control, prevention and surveillance ?

# HALT project- ECDC

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- December 2008: Healthcare-Associated Infections in Long-Term Care Facilities (HALT) project
  - European Surveillance of Antimicrobial Consumption in Nursing Homes (ESAC-NH)
  - Point prevalence survey: prevalence of healthcare associated infections (HAI) and antimicrobial use in LTCFs
- HALT: May-September 2010.
- HALT-2: April-May 2013.
- HALT-3: On-going 2016 - 2017

ECDC website: <http://ecdc.europa.eu/en/publications/Publications/healthcare-associated-infections-point-prevalence-survey-long-term-care-facilities-2013.pdf>, last accessed 14<sup>th</sup> February 2017

LTCF: Long-Term Care Facilities



# HALT project

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- **HALT project, 2010:**

- Data from 722 LTCFs across 25 European countries
- 2.4% residents with at least one HAI in participating LTCFs.
- 4.3% residents receiving at least one antimicrobial agent.

- **HALT-2 project, 2013:**

- Data from 1 181 LTCFs in 19 European countries
- 3.4% residents with at least one HAI in participating LTCFs.
- 4.4% residents receiving at least one antimicrobial agent.

ECDC website: <http://ecdc.europa.eu/en/publications/Publications/healthcare-associated-infections-point-prevalence-survey-long-term-care-facilities-2013.pdf>, last accessed 14<sup>th</sup> February 2017

LTCF: Long-Term Care Facilities  
HAI: Healthcare Associated Infections





## HALT-2 project, 2013- results

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- 77 264 residents living fulltime in the LTCF since at least 24 hours and present at 8:00 a.m. on the day of the PPS.
- The majority of the residents were female (median: 71.0%) and older than 85 years (median: 49.1%)
- Italy:
  - Maria Luisa Moro, Enrico Ricchizzi (Agenzia Sanitaria e Sociale Regionale Emilia – Romagna, Bologna)
  - 235 LCTFs = 19.9% of LCTFs surveyed

ECDC website: <http://ecdc.europa.eu/en/publications/Publications/healthcare-associated-infections-point-prevalence-survey-long-term-care-facilities-2013.pdf> ,last accessed 14<sup>th</sup> February 2017

# HALT-2 project, 2013- IPC and Antibiotic stewardship

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- IPC structure:
  - Practitioner: 66.5% (Italy 50.2%)
  - Committee: 42.6% (Italy 24.2%)
  - Expert advice: 79.1% (Italy 81.0%)
- IPC protocols:
  - MDRO: 76.9% (Italy 49.3%)
  - Hand hygiene: 95.9% (Italy 92.6%)
  - Management urinary catheter: 84.0% (Italy 93.5%)
  - Management venous catheter: 50.0% (Italy 85.2%)
  - Management enteral feeding: 76.8% (Italy 84.3%)
- Antibiotic stewardship elements not present in 46% of LTCFs (20.4% in Italy)

ECDC website: <http://ecdc.europa.eu/en/publications/Publications/healthcare-associated-infections-point-prevalence-survey-long-term-care-facilities-2013.pdf>, last accessed 14<sup>th</sup> February 2017

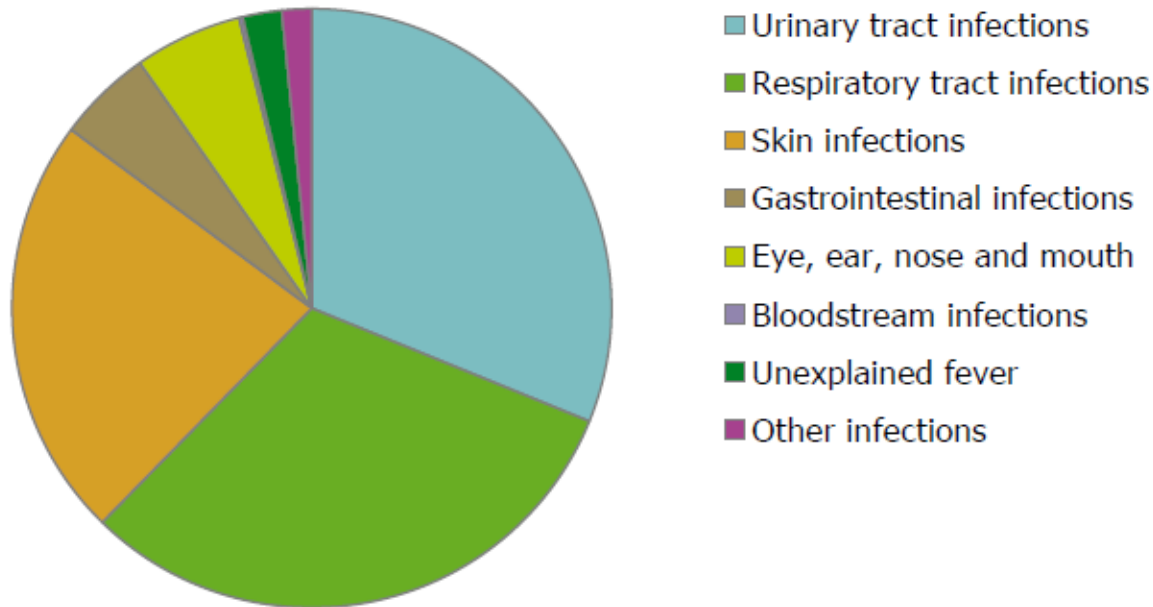
IPC: Infection Prevention and Control  
MDRO: MultiDrug-Resistant Organism





# HALT-2 project, 2013- Healthcare associated infections

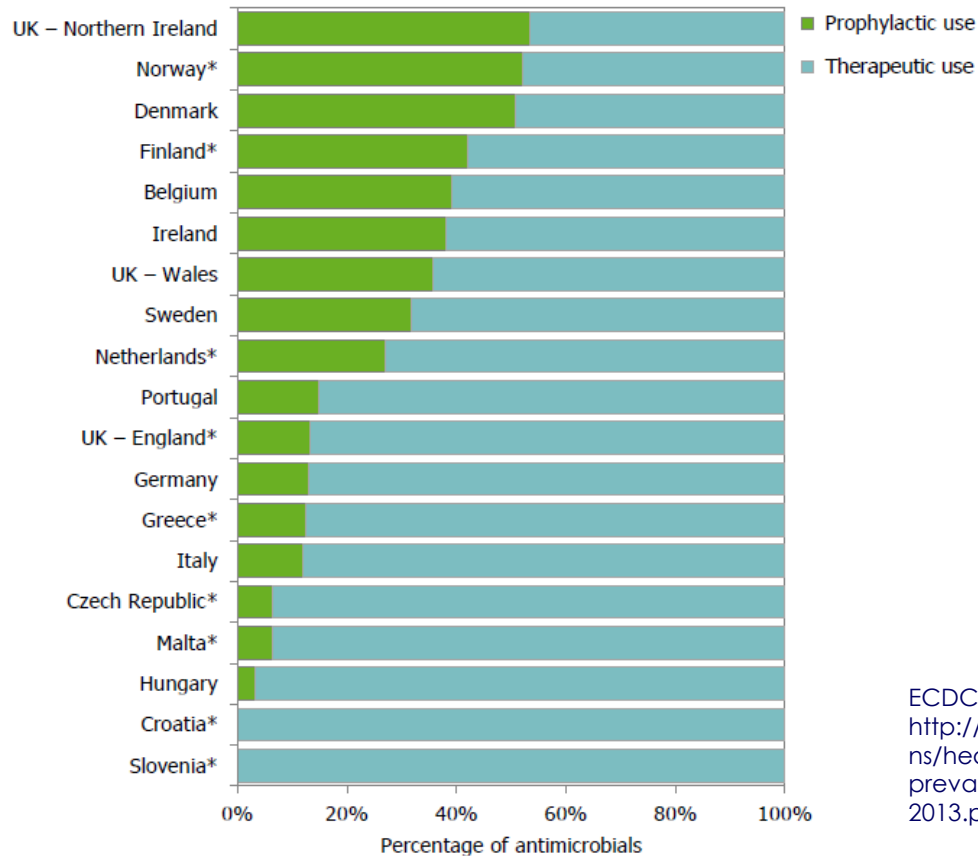
- 3.4% residents in average (Italy 3.3% ) with at least one HAI in participating LTCFs:
  - 2626 HAIs: 31% RTIs, 31% UTIs and 22.8% skin infections



ECDC website: <http://ecdc.europa.eu/en/publications/Publications/healthcare-associated-infections-point-prevalence-survey-long-term-care-facilities-2013.pdf> ,last accessed 14<sup>th</sup> February 2017

# HALT-2 project, 2013- Antimicrobial usage

4.4% residents receiving at least one antimicrobial agent in average (Italy 3.4%)



ECDC website:  
<http://ecdc.europa.eu/en/publications/Publications/healthcare-associated-infections-point-prevalence-survey-long-term-care-facilities-2013.pdf>, last accessed 14<sup>th</sup> February 2017



# Conclusions

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- More infection prevention and control programs to develop and implement
- Antibiotic stewardship elements needed not only written therapeutic guidelines but also surveillance programs for antibiotic consumption and resistance surveillance
- HALT- 3 on-going results expected end 2017

Thank you !