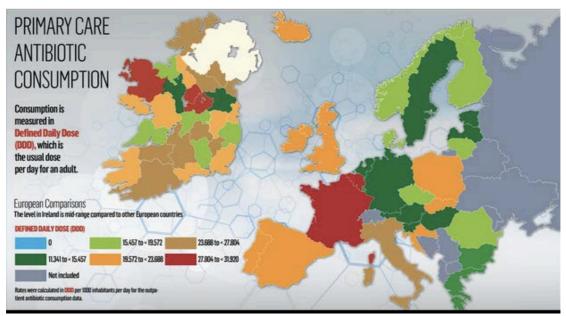
### **HCAI AMR Newsletter March 2015**

## Antibiotic Use by County and Country

### (i) Antibiotic Use by County

<u>A recent article on independent.ie</u> on the best and worst counties for antibiotic consumption sparked a lot of media controversy.



Well done to Meath and Roscommon on being the counties with the lowest antibiotic consumption rate, but Mayo, Longford and Westmeath... What is going on?

In addition, there are marked differences at county level with regard to the type of antibiotic being used. <u>See this 2013 short visual report</u>.

**OUTPATIENT ANTIBIOTIC USE** 

## **Antibiotic Groups – Counties, 2012**

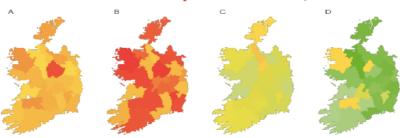


Fig 11:

A. Penicillins Consumption of penicillins (J01C) expressed in DDD per 1000 inhabitants and per

day. E.g. Amoxillin or Co-amoxiclav

**B. Marcolides** Consumption of macrolides, lincosamides and streptogramins (J01F) expressed in

DDD per 1000 inhabitants and per day. E.g. Clarithromycin

C. Cephalosporins Consumption of cephalosporins (J01D) expressed in DDD per 1000 inhabitants and

per day. E.g. Cefaclor

D. Quinolones Consumption of quinolones (J01M) expressed in DDD per 1000 inhabitants and per

day. E.g. Ciprofloxacin

For figures 11 and 12, the same type of scheme as the one in fig 1 is used for eight ECDC (ESAC-Net) quality indicators to show variation in Irish counties scaled against ECDC 2010 data. The scale has been graduated to show greater contrast between counties.

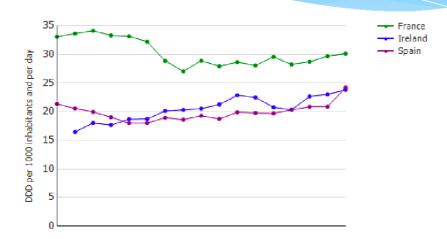
HSE-HPSC Antibiotic Usage 2012Q4

14

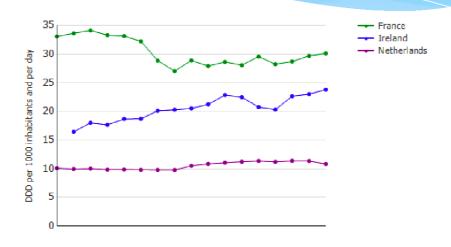
### (i) Antibiotic Use by European Country

This type of variation between antibiotic consumption rates also occurs between European countries. There is no evidence that most European countries have major differences in population health requiring more antibiotic use. Also, there is no evidence that some populations are more "allergic" than others yet there is marked variation in macrolide use among counties and countries. Click here for slides on antibiotic consumption trends over the last 10 years.

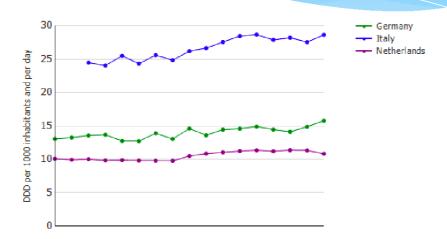
# France v Ireland v Spain



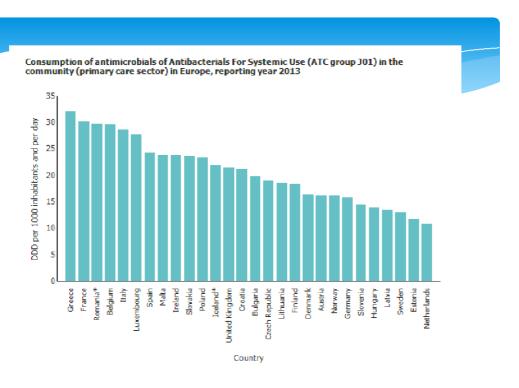
# France v Ireland V Netherlands



# Italy v Germany v Netherlands



Latest overall antibiotic consumption data comparisons available from reporting countries:



While Greece remains the worst on this league table, there has been an interesting consequence from their economic crisis.

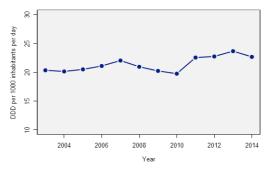
# GREECE – we can reduce Antibiotic Consumption



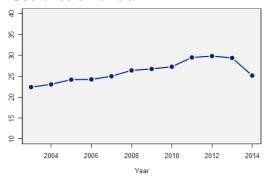
I'm glad to report that although the downward shift is not dramatic, there is evidence of a small reduction in Ireland's overall community antibiotic consumption rate in 2014, and importantly, the quality of our prescribing seems to be improving with a reduction in the use of some broad-spectrum antibiotics (HPSC preliminary data).

## Ireland – We can improve the quality of antibiotic prescribing

Community antibiotic consumption - first half 2014



#### Use of co amoxiclav



# Narrow versus broad-spectrum

### Penicillin V for strep throat







GP's need to think more scientifically - what are you treating?



# If you decide to prescribe ask the following questions?

What do I tend to prescribe for a particular condition?

Is it the right drug for this condition? Is it the right dose for the patient sitting in front of me?

How long do I tend to prescribe it for?

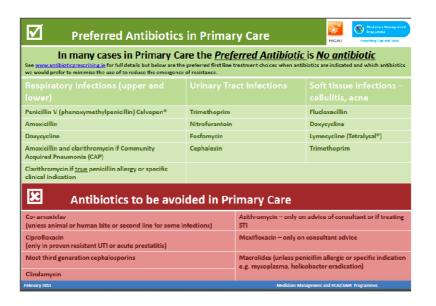
What investigations, if any, do I use to support my decisions?

Do I know about the Irish primary care prescribing guidelines and am I using them?



We are always adding new things to help you. There is a great new section on prescribing where renal function is impaired.

We have worked with Prof Michael Barry and Dr Susan Clarke from the Medicines Management Programme to produce a preferred antibiotic list.



#### **Useful Information**

- <u>www.undertheweather.ie</u> Self-help for patients
- www.hse.ie/go/antibiotics Public information campaign on antibiotics, including campaign materials
- www.e-bug.eu European wide antibiotic and hygiene teaching resource for junior and senior school children. Translated into Irish and available via the Department of Education free to all Irish school children.

Dr Nuala O Connor

ICGP Lead HCAI AMR Healthcare Associated Infections and Antimicobial Drug Resistance