e-Bug
The Development of a European antibiotic educational resource for school children

Dr Donna Lecky
- Why do we need e-Bug?
- Development of resources
- The resources available
- Ideas for implementation

60% funded by DG Sanco
Why educate school children through e-Bug?

We need to teach children about prudent antibiotic use as they are our future generation of antibiotic users

But as important
Half of children consulting their GP have an infection
Majority are respiratory
Antibiotics are the most common childhood medicines

If we reduce childhood infections we reduce antibiotic use
e-Bug aims

- Research, design & produce a teaching pack & website for junior and senior schools

Covering:
- Prudent antibiotic use
- Hand hygiene
- Respiratory hygiene
- Importance of vaccines

- Translate and disseminate across Europe

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Research findings

No overall European theme
Why 9-11 years & 12-15 year olds?

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**Junior packs**
- Pre school
- Primary

**Senior packs**
- Lower Secondary
- Upper Secondary
- Compulsory Full Time Education

60% funded by DG Sanco
Focus groups with teachers

- MUST link closely to the National Curriculum
- MUST be adaptable
- Important to have IT links
- Cover a range of teaching styles
- Student and teacher friendly
Character development

Clothing

Hair styles

60% funded by DG Sanco
Junior and Senior Characters

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Bug Character development

Good Bugs

- Penicillium
- Lactobacillus

Bad Bugs

- Staphylococcus
- Campylobacter
- Influenza
- Dermatophyte

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Pack and website content was discussed and agreed with teachers and 18 partner countries in 2007.
The Resource

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Junior Schools

Senior Schools
Pack Content

1. Micro-organisms
   i. An Introduction
   ii. Useful Microbes
   iii. Harmful Microbes

2. Spread of Infection
   i. Hand Hygiene
   ii. Respiratory Hygiene
   iii. Food Hygiene (Junior only)
   iv. Sexual Transmission (Senior only)

3. Prevention of Infection
   i. The Body’s Natural Defences
   ii. Vaccinations

4. Treatment of Infection
   1. Antibiotic Use and Medicine

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1. Micro-organisms

- Introduction to microbes
- Useful microbes
- Harmful microbes
Spread of Infection

Cycle of Infection

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2. Spread of infection

- Hand hygiene
- Respiratory hygiene
- Food hygiene (Junior)
- STI (Senior)
3. Prevention of Infection

The bodies natural defences

Junior schools

- Act out story of Jenner

Senior schools

- Vaccine card game shows how vaccines can help control outbreaks

60% funded by DG Sanco
Treatment of infection discusses Prudent antibiotic use

- Treatment of Infection junior schools

- Antibiotic resistance activity

It really hurts and I think I’m getting a cough.

Don’t you have any antibiotics at home you can take?

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Student website

Welcome

Junior student

Senior student

60% funded by DG Sanco
Junior games

Platform game – photograph and zap microbes

60% funded by DG Sanco
Senior Detective Game

Pupils solve a microbial mystery

Using ‘Microbe Vision’ to find clues

60% funded by DG Sanco
e-Bug outside of the school
e-Bug Road Shows

60% funded by DG Sanco
Family fun days

The stands are set up in a large hall with other exhibitors and families come to us whilst walking around the hall.
Other areas

e-Bug and Sexual Relationship Education (SRE)
e-Bug in Prisons and Youth Offender Institutions (YOI)
Hospitals and Community nurses
Thank you

ECDC for their ongoing support of the project

All the partners involved in making it such a success

### Associate Partners:
- Belgium (BE)  
  - Herman Goossens  
  - Niels Adriaenssens  
  - Stijn De Corte  
- Czech Republic (CZ)  
  - Jiri Benes  
  - Tereza Kopřivová Herotová  
- Denmark (DE)  
  - Jette Holt  
  - Marianne Noer  
- France (FR)  
  - Pierre Dellamonica  
  - Pia Touboul  
  - Brigitte Dunais  
- Greece (EL)  
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  - Koula Merakou  
  - Dimitri Gennimata  
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- Italy (IT)  
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- Spain (ES)  
  - José Campos  
- United Kingdom (UK)  
  - Julius Weinberg

### Collaborating Partners:
- Croatia  
  - Arjana Tambic Andrasevic  
- Finland  
  - Pentti Huovinen  
- Hungary  
  - Gabor Ternak  
- Ireland  
  - Robert Cunney  
- Latvia  
  - Sandra Berzina  
- Lithuania  
  - Rolanda Valintiene  
- Slovakia  
  - Tomáš Tesař  
- Slovenia  
  - Marko Pokorn

### Developmental Team:
- Project Coordinator  
  - Cliodna McNulty  
- Pack Developer  
  - Donna Lecky  
- Web Lead  
  - Patty Kostkova  
- Web Developer  
  - David Farrell  
- Lead Administrator  
  - Jill Whiting

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Dr Cliodna McNulty