**e-Bug: A Pan European Hygiene and Antibiotic Use Educational Resource**

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On behalf of the e-Bug working group

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**Background Information**

Antimicrobial resistance remains one of the key problems within community and hospital settings in Europe

50% of adults still believe that antibiotics work on coughs and colds. To reduce expectations for antibiotics in the long term we need to change the behaviour of our future generation of adults – our children.

**Project Aim**

That all children will leave school with a knowledge of prudent antibiotic use and how to reduce the spread of infections for themselves and future children, which is where much of the antibiotic misuse occurs.

**Specific Objectives**

- Exchange information and experiences of good practice within the educational curriculum, public campaigns and websites with associate partner countries.
- Develop a school antibiotic pack template for use across European states.
- Develop a school education website for 9 – 11 and 12 – 15 year olds.
- Evaluation of use and impact of pack in the United Kingdom, France and the Czech Republic.
- Translation and implementation of pack and website in associate countries, in close collaboration with the Ministries of Health and Education in each country.
- Dissemination of packs and marketing to collaborating partner countries.

**Pack Content**

1. **Micro-organisms**
   - Introduction to Microbes
   - Transfer of Infection
   - Treatment of Infection
   - Prevention of Infection

2. **Spread of Infection**
   - Hand Hygiene
   - Respiratory Hygiene
   - Food Hygiene (Junior only)
   - Sexual Transmission (Senior only)

3. **Prevention of Infection**
   - The Body’s Natural Defences
   - Vaccinations

4. **Treatment of Infection**
   - Antibiotic Use and Medicine

**Pack Structure**

**Teacher Sections**
- National Curriculum Links
- Learning Objectives
- Background Information
- Detailed Lesson Plan
- Extension Activities
- Preparation Requirements
- Classroom Presentations

**Student Sections**
- Information / Fact Sheets
- Classroom Resource Materials
- Fascinating Fact sections
- Did you know? and 'Fascinating Fact' sections
- Interactive Classroom Activities

**Access to Pack for Teachers**

All pack documents are available for download as Microsoft Word “doc” files at [www.e-bug.eu](http://www.e-bug.eu).

These documents are fully editable so that teachers can customise the resource and adapt them to suit their schools needs / lesson plans.

There are also videos demonstrating the lessons and explaining the results.

**The e-Bug Online Games**

**Junior Game**

Mixed game styles used to teach same content as the pack.

- Quiz reinforces real world relevance and tests pupil knowledge.
- Food sorting game demonstrates proper fridge usage.

**Senior Game**

Detective game sees pupils engage in an interactive story in which they find have to solve a microbial mystery

- Speak to characters to uncover motives and suspicions.
- Use ‘Microbe Vision’ to find clues in various locations.

**The e-Bug Website**

- **Contact Details**
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**The Future of e-Bug**

- ECDC are translating the e-Bug pack and website into the remaining 17 EU-27 and EFTA country languages.

- We are currently identifying lead partners in these countries to take e-Bug forward by September 2011

- We are creating a series of interactive children’s pages to include revision sections, quizzes, disease information cards and much more.

- If you are interested in getting involved with e-Bug in your country please do not hesitate to contact us.