

# TB OR NOT TB?

all you need to know about bovine tuberculosis



## Exeter iGEM 2015

In the UK, bovine TB mainly affects the **SOUTHWEST** but is prevalent in other areas.

Between 1990 and 2012 **95%** OF ALL HERDS IN DEVON experienced **TB RESTRICTIONS**

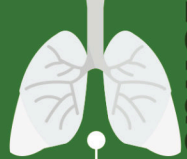
### MYCOBACTERIUM BOVIS IS RESPONSIBLE FOR BOVINE TB

IT CAUSES A BUILD UP OF WHITE BLOOD CELLS, CREATING PUSTULES

TB CAN ATTACK ANY PART OF THE BODY BUT USUALLY ATTACKS THE

LUNGS

**VACCINATION** is presently **ILLEGAL** as the vaccine interferes with the current **SKIN TEST**

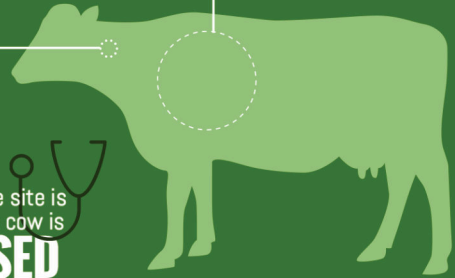


Presentation 25.09 12:00 Room 312

In **TESTING** the neck is injected with **2 STRAINS** of TB



BOVINE and AVIAN



72 hours later, the site is examined and the cow is **DIAGNOSED**

Poster 243 Zone 8 Hall D

#### **-** NEGATIVE

the cow is **TB FREE** (probably)

If the rest of the herd is clear, retesting will occur within a year

#### **+** POSITIVE

The cow is **DESTROYED** and the herd is placed under **restrictions** for **6 MONTHS** re-testing occurs within 60 days

THE **CURRENT TEST** IS **80% SENSITIVE**

ON AVERAGE, FOR EVERY **10** COWS TESTED,



**2** INFECTED REMAIN IN THE HERD

THESE COWS CAN THEN INFECT UP TO **4** OTHERS

IN THE **UK** **BADGERS ARE HOST FOR THE BACTERIUM** **M. BOVIS IS PASSED VIA THEIR EXCRETIONS**

AND CAN SURVIVE IN THE ENVIRONMENT FOR **2** YEARS

We'd love you TB there