

eMB-Pigs
The electronic medicines book
for pigs

M E C White Pig Veterinary Society

April 21 2016

eMB-Pigs – what is it?

- A web based recording system providing all pig producers with a range of options for recording all or part of their medicines use.
- Soft launch 18th April 2016
- App version to follow?

eMB-Pigs. Why has it been developed?

- The industry have asked for it
- Instigated by PHWC representing all sectors of the pig industry
- VMD & AHDB Pork driven workgroup
- Need to collect and collate antibiotic use data
- ESVAC requirements in the near future
- Pig industry criticised as high user of Abs
- No accurate data
- RT requirements

eMB-Pigs What will it do?

- Can be used as a substitute for all paper medicines records
- Covers single and group administration, feed usage and routine applications (vaccines etc)
- Alternatively simply enter Ab use by product and quantity at time intervals = additional work
- Upload excel spreadsheets from farm office records
- Whichever method is used it will provide a total Ab use over a set time period for inclusion in VHP and ultimately anonymised submission to VMD via Pig hub
- Will receive feed supply data from compounders.
- RT compliant.

eMB-Pigs Where will the data go?

- Submitted to Pig Hub password protected– as with eML2 data
- Accessible by producer and authorised individuals ie vets (read only)
- Reports downloadable by registered user
- AHDB Pork will consolidate Ab use data and submit to VMD for further submission to ESVAC as anticipated.

eMB-Pigs – what are the concerns?

- Workload – double entry
- ‘Old MacDonald had a form’
- Will it work?
- Will it be used? - 6 month review
- Security of data
- Identification of high users
- Identification of high prescribers
- Get used to it!

eMB-Pigs – why should we bother?

- We have got to start acting to counter the negative publicity around pig farming and Ab use
- Data is power
- If you don't measure it.....
- Provides a consistent format for data collection
- Reports expressed in a form that is comparable with other Countries (expected ESVAC demands)
- Be under no illusion – Ab use in pigs is under threat and as such so are many pig farms.



eMB-Pigs

The **electronic Medicine Book for Pigs** is a UK-wide service for

- the collection of data on antibiotic usage in the pig sector and
- **optionally** the full legal medicine book for your pig holding.

Access to this site is through a single sign-on with **AHDB Pork Pig Hub**, so you should log in using the same username and password. If you do not have a Pig Hub account, [Register with Pig Hub](#) to create one (you will be re-directed).

For more information about eMB-Pigs [Click Here](#).

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Photo by Liz West, available under a [Creative Commons Attribution \(2.0 Generic License\)](#).

Log in

Pig Hub Username

Pig Hub Password

[Forgotten your password?](#)

[Log in](#)

[Register with Pig Hub](#)



Choose Pig Holding

Please select a pig holding from the list below or search for it by name, postcode, holding number or slapmark.

i If you cannot find your pig holding, please [contact AHDB Pork using the Pig Hub contact form](#).

Search for pig holding by name, postcode, holding number or slapmark

My Test Farm 1

Post code	Holding number	Slapmark	Last return end date	Enter medicine data	Submit antibiotic usage returns
A12 B34	00/000/0000	AB1234	31st Dec 2015	View and enter	View and submit

My Test Farm 2

Post code	Holding number	Slapmark	Last return end date	Enter medicine data	Submit antibiotic usage returns
A12 B34	00/000/0000	AB1234	30th Sep 2015	View only	View only

My Test Farm 3

Post code	Holding number	Slapmark	Last return end date	Enter medicine data	Submit antibiotic usage returns
A12 B34	00/000/0000	AB1234	None submitted	View and enter	View and submit



Dashboard

[My Test Farm 1, A12 B34, 00/000/0000, AB1234](#)

i Antibiotic usage return due for the period 1st Oct 2015 - 31st Dec 2015.
[Click here to enter data online.](#)
Alternatively, submit your antibiotic usage return using your third party medicine record keeping software.

i Your last antibiotic usage return was submitted on 4th Oct 2015 using Database Seed Process. [Click here to view it.](#)

Holding Details

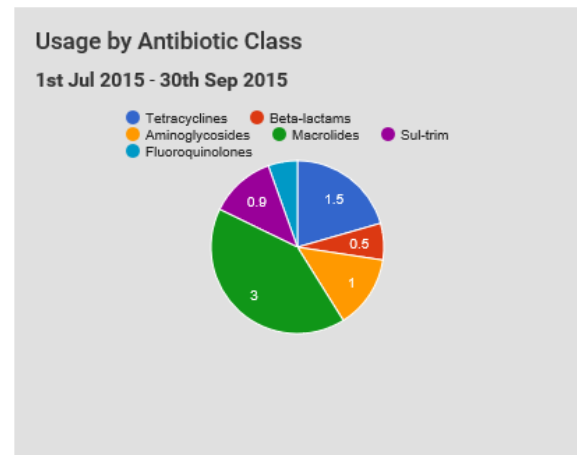
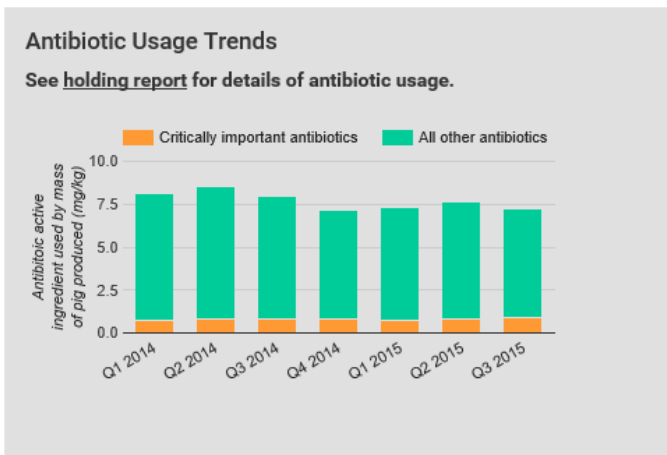
[How can I change these details?](#)

Post Code A12 B34	Holding Number 00/000/0000	Slapmark AB1234
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Permissions

Medicine data ? View and enter	Antibiotic usage returns ? View and submit
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- Dashboard**
- [Enter data](#)
- [Submission history](#)
- [Holding report](#)
- [Group report](#)
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Data Entry

📍 My Test Farm 1, A12 B34, 00/000/0000, AB1234

There are several ways to submit data to eMB-Pigs. [Help me choose.](#)

- Simple antibiotic data entry**
Select this option if you only want to provide total antibiotic usage data. This is the simplest and easiest option. You will still have to keep a separate medicine book.
- Use eMB-Pigs as my full medicine book**
Select this option if you would like to use the eMB-Pigs medicine book to replace your existing medicine records.
- Use our Excel templates**
You can use Excel for your record keeping. Choose this option to download the templates or to upload data.

i Alternatively you can submit data using your on-farm record keeping software. [Click here to find out more.](#)

← Back

✕ Cancel data entry

Medicine Book

My Test Farm 1, A12 B34, 00/000/0000, AB1234

< Previous Quarter 1st Apr 2016 - 30th Jun 2016 Next Quarter >

- i** This medicine book may be used as the full medicine book for your pig holding. Please enter data for your animal treatments, routine treatments and your purchased medicines for 1st Apr 2016 to 30th Jun 2016.
- i** To submit your antibiotic usage data at the end of the date period, please click the **Submit Antibiotic Usage Return**. Your antibiotic usage will be extracted from the animal treatments section of this medicine book and **only** anonymised, aggregated antibiotic usage totals will be sent to the Veterinary Medicines Directorate for national data collection.

Animal Treatments

+ Add animal treatment

This section should include all **antibiotic** and **non-antibiotic** individual animal treatments given to a single animal or a group of animals. Note that only **antibiotic** data entered in this section will be sent to the VMD, in aggregated and anonymised form.

No treatments added.

Routine Treatments

+ Add routine treatment

You should include any **non-antibiotic** treatments which are administered on a regular and routine basis for long term disease control purposes such as vaccinations, iron supplementation and coccidiosis control. Note that this section does not support the entry of antibiotic data.

Data entered here will be carried forward into future versions unless they are deleted or changed by you.

No treatments added.

Purchased Medicines

+ Add purchased medicine

Use this section to store details of your purchased medicines.

No medicines added.

- ✓ [Submit antibiotic usage return](#)
- 📄 [Save and close medicine book](#)
- ← [Animal treatments](#)
- ← [Routine treatments](#)
- ← [Purchased medicines](#)
- 🗑️ [Delete draft submission](#)



http://localhost:7265/#/Units/fe2bc573-bde1-4970-8d!

Waiting for localhost



Feed Stock

[My Test Farm 1, A12 B34, 00/000/0000, AB1234](#)

i To edit the quantity of an existing feed product, to add a new delivery of the product or to mark feed as consumed, please click on the corresponding row in the table below.

[+ Define a new feed product](#)

Product Name	Supplier	Last Delivery Date	Last Order Ref.	Total Delivered	Remaining	Additive Name	Concentration
Feed Product 1	Self	22nd Jan 2016	Order1	5.00 tonnes	5.00 tonnes	Tylan G20 Premix for Medicated Feedingstuff	1 kg/tonne
						Apralan G200 Premix for Medicated Feeding Stuff	1 kg/tonne

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Antibiotic Usage Update for My Test Farm 1

[My Test Farm 1, A12 B34, 00/000/0000, AB1234](#)

Report for period 1st Jul 2016 to 30th Sep 2016 (return submitted on 23rd Mar 2016)

Measure of Antibiotic Use

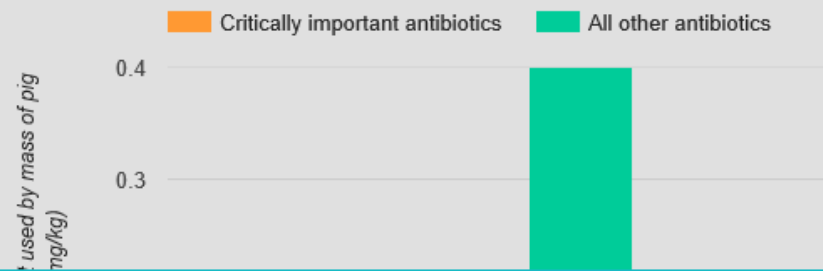
What measure of antibiotic usage would you like to use for this report?

- Antibiotic active ingredient used by mass of pig produced (mg/kg)
Total usage of each antibiotic ingredient (in milligrams) will be divided by a denominator representing the total mass (in kilograms) of pig produced. For example, for holdings in the **Farrow to Finish** category, this denominator is the number of slaughter pigs declared in the return multiplied by the *average weight at treatment for finishers (50 kg)*. [Click here for more information.](#)
- A measure based on defined daily dose (DDDvet) will be added soon
- Total quantity of antibiotic active ingredient used (kg)
Your total usage of each antibiotic ingredient (in kilograms) will be displayed. This measure is difficult to compare where production scale changes over time or between pig holdings.

Warning

Because you have submitted one or more returns with zero animals associated with your holding type, some antibiotic usage data (mg/kg) cannot be displayed.

Antibiotic Usage Trends



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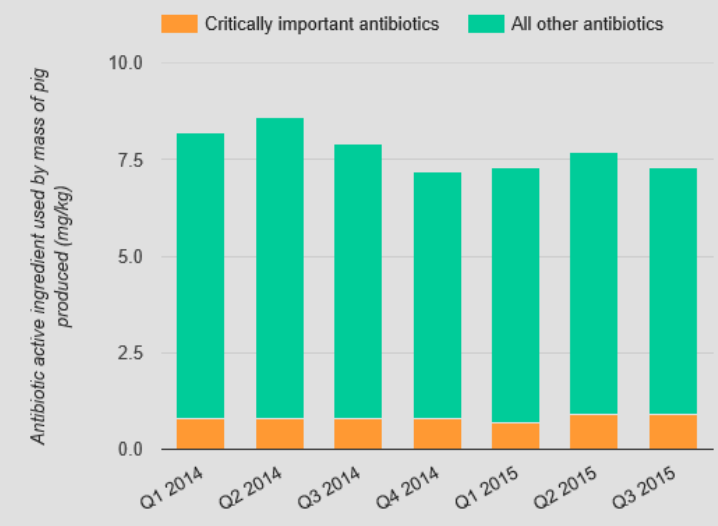
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Antibiotic Usage Trends



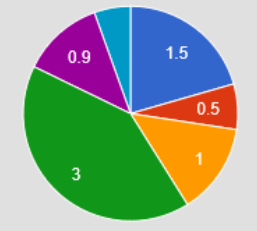
Critically important antibiotics are defined as 3rd and 4th generation cephalosporins and fluoroquinolones.

Usage by Antibiotic Class

Antibiotic active ingredient used by mass of pig produced (mg/kg)

1st Jul 2015 - 30th Sep 2015

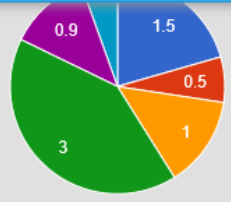
- Tetracyclines
- Beta-lactams
- Aminoglycosides
- Macrolides
- Sul-trim
- Fluoroquinolones



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CRITICALLY IMPORTANT ANTIBIOTICS
 3RD AND 4TH GENERATION CEPHALOSPORINS AND FLUOROQUINOLONES

Antibiotic active ingredient used by mass of pig produced (mg/kg)

Product	Active ingredient	Antibiotic class	Q3 2015	Q2 2015	Q3 2014
Enrodexil 100 mg/ml Solution for Injection for Cattle and Pigs	Enrofloxacin	Fluoroquinolones	0.4 mg/kg	0.4 mg/kg	0.4 mg/kg
Pen & Strep Suspension for Injection	Benzylpenicillin	Beta-lactams	0.5 mg/kg	0.5 mg/kg	0.4 mg/kg

ALL OTHER ANTIBIOTICS

Antibiotic active ingredient used by mass of pig produced (mg/kg)

Product	Active ingredient	Antibiotic class	Q3 2015	Q2 2015	Q3 2014
Chlorsol 50% Powder for Oral Solution	Chlortetracycline	Tetracyclines	1.5 mg/kg	1.9 mg/kg	1.5 mg/kg
Pen & Strep Suspension for Injection	Dihydrostreptomycin	Aminoglycosides	1.0 mg/kg	1.0 mg/kg	0.9 mg/kg
Pharmasin 100% w/w Granules for Use in Drinking Water for Pigs, Chickens, Turkeys and Calves	Tylosin	Macrolides	3.0 mg/kg	3.2 mg/kg	4.0 mg/kg
Trimacare 24% Solution for Injection	Sulfadiazine	Sul-trim	0.7 mg/kg	0.6 mg/kg	0.7 mg/kg
	Trimethoprim	Sul-trim	0.1 mg/kg	0.1 mg/kg	0.1 mg/kg

How do I compare with similar holdings?

This chart shows the distribution of total antibiotic usage for all pig holdings which have submitted to the hub in the **Wean to Finish** ESVAC category between **1st Jul 2015** and **30th Sep 2015** inclusive.

You are using **less antibiotic than 54%** of pig holdings in this category.

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Enrofloxacin 100 mg/ml Solution for Injection for Cattle and Pigs	Enrofloxacin	Fluoroquinolones	0.4 mg/kg	0.4 mg/kg	0.4 mg/kg
Pen & Strep Suspension for Injection	Benzylpenicillin	Beta-lactams	0.5 mg/kg	0.5 mg/kg	0.4 mg/kg

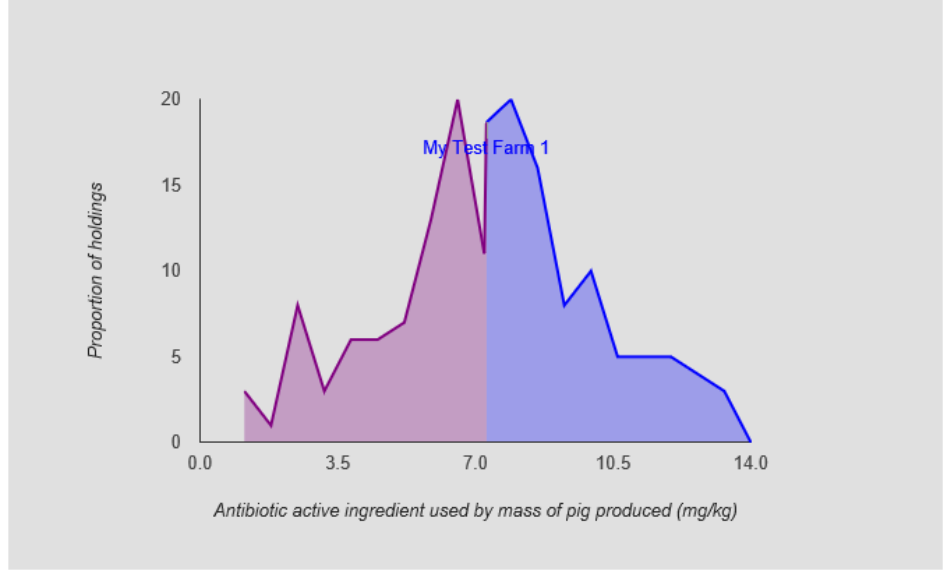
ALL OTHER ANTIBIOTICS

Product	Active ingredient	Antibiotic class	Antibiotic active ingredient used by mass of pig produced (mg/kg)		
			Q3 2015	Q2 2015	Q3 2014
Chlorzol 50% Powder for Oral Solution	Chlortetracycline	Tetracyclines	1.5 mg/kg	1.9 mg/kg	1.5 mg/kg
Pen & Strep Suspension for Injection	Dihydrostreptomycin	Aminoglycosides	1.0 mg/kg	1.0 mg/kg	0.9 mg/kg
Pharmasin 100% w/w Granules for Use in Drinking Water for Pigs, Chickens, Turkeys and Calves	Tylosin	Macrolides	3.0 mg/kg	3.2 mg/kg	4.0 mg/kg
Trimacare 24% Solution for Injection	Sulfadiazine	Sul-trim	0.7 mg/kg	0.6 mg/kg	0.7 mg/kg
	Trimethoprim	Sul-trim	0.1 mg/kg	0.1 mg/kg	0.1 mg/kg

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Group Antibiotic Usage Update

[My Test Farm 1, A12 B34, 00/000/0000, AB1234](#)

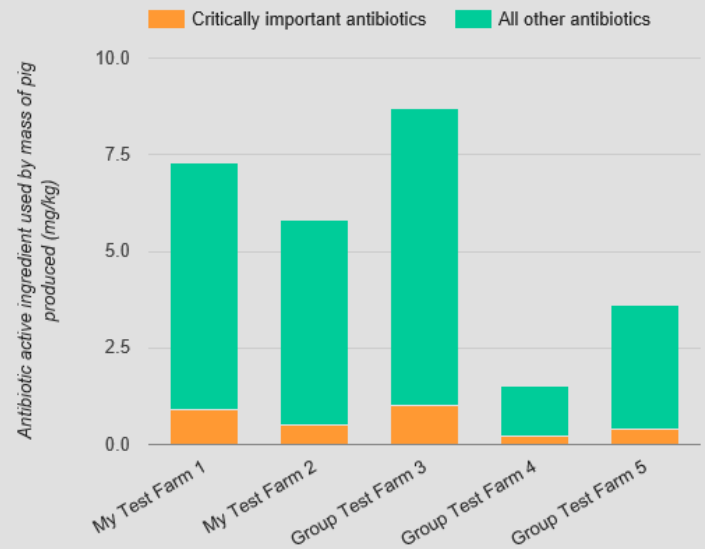
Report for period 1st Jul 2015 to 30th Sep 2015 (return submitted on 4th Oct 2015)

Measure of Antibiotic Use

What measure of antibiotic usage would you like to use for this report?

- Antibiotic active ingredient used by mass of pig produced (mg/kg)
Total usage of each antibiotic ingredient (in milligrams) will be divided by a denominator representing the total mass (in kilograms) of pig produced. For holdings in ESVAC category **Wean to Finish** this denominator is the number of slaughter pigs declared in the return multiplied by the *ESVAC average weight at treatment for finishers (50 kg)*.
- Total quantity of antibiotic active ingredient used (kg)
Your total usage of each antibiotic ingredient (in kilograms) will be displayed. This measure is difficult to compare where production scale changes over time or between pig holdings.

Antibiotic Use by Holding



Holding	ESVAC Category	Critically important antibiotics	All other antibiotics
My Test Farm 1	Wean to Finish	8.0 mg/kg	6.1 mg/kg

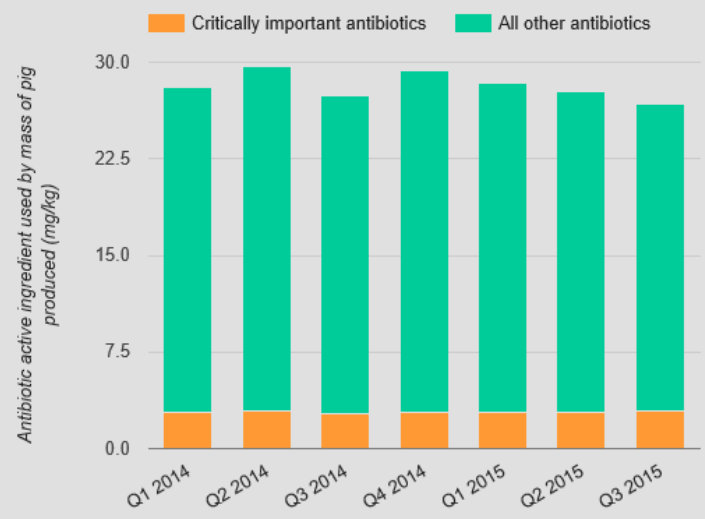
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Critically important antibiotics are defined as 3rd and 4th generation cephalosporins and fluoroquinolones.

Group Trend Report



Date	Critically important antibiotics	All other antibiotics
Q1 2014	2.8 mg/kg	25.3 mg/kg
Q2 2014	2.9 mg/kg	26.8 mg/kg
Q3 2014	2.7 mg/kg	24.7 mg/kg
Q4 2014	2.8 mg/kg	26.6 mg/kg
Q1 2015	2.8 mg/kg	25.6 mg/kg
Q2 2015	2.8 mg/kg	24.9 mg/kg
Q3 2015	2.9 mg/kg	23.9 mg/kg

Critically important antibiotics are defined as 3rd and 4th generation cephalosporins and fluoroquinolones.

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