Clinical Aspects of AMR

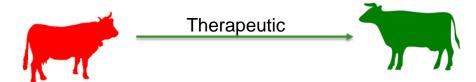
Niamh Field, Herd health research officer



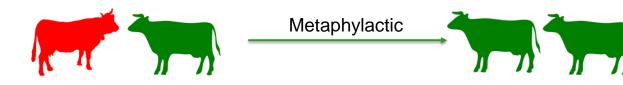


Reasons for antibiotic + antiparasitic use

Cow with mastitis:



Pneumonia outbreak:



Blanket dry cow antibiotics:



Prophylactic



Case study 1: Reducing antibiotic use

- Flock lameness problem
- Infectious causes
- High antibiotic use





Case study 1: Reducing antibiotic use

- Improved infection control
 - Flock health plan
 - Installed new batch footbath





Case study 1: Reducing antibiotic use

Product	2015	2019
Alamycin 300LA	33 x 100ml	4 x 100ml
Penstrep	9 x 100ml	Nil
Cyclo Spray	9	5
Estimated cost	€903.60	€145.20



Case study 2: Reducing antiparasitic use

- Blanket worm dosing in calves and heifers
- No evidence of high worm burdens



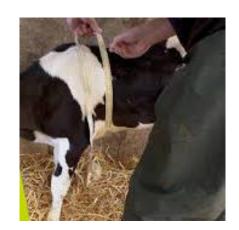


Case study 2: Reducing antiparasitic use

- Regular monitoring worm egg counts, weights
- Strategic worm dosing









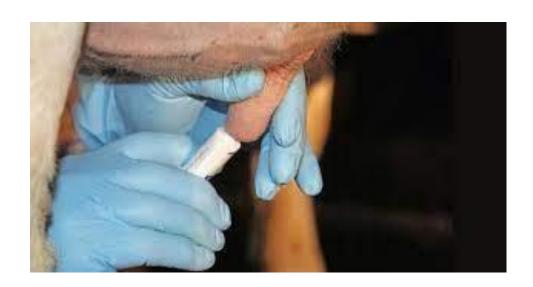
Case study 2: Reducing antimicrobial use

Product	2017	2019
Ivermectin pour-on	2.5L	0
Ivermectin injectable	250ml	100ml
Albendazole	2.5L	2L
Estimated costs	€160	€80



Case study 3: Reducing antibiotic use

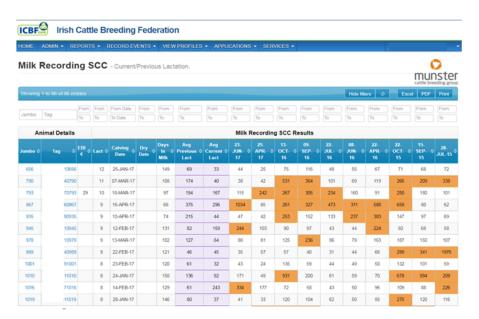
- Large split-calving dairy farm
- Blanket use of intra-mammary antibiotics at dry-off to prevent new infections during the dry period





Case study 3: Reducing antibiotic use

- Switch from blanket to selective dry cow therapy
- Routine monitoring using milk recording
- CellCheck guidelines and support







Case study 3: Reducing antibiotic use

	2015	2020
No. of cows getting antibiotic at dry-off	300	45
% of cows getting antibiotic at dry-off	100%	8%
Average SCC	135	155



Summary

"As little as possible but as much as necessary"

"Prevention is better than cure"

