

Sustainable Control of Parasites in Sheep

Know Your Anthelmintics Groups



Do you drench and inject correctly?

1. Weigh – don't guess

Underestimating the weight of sheep is a common cause of under dosing. Select and weigh the biggest sheep in the group to determine the correct dose. If there is a wide range of weights, consider splitting the group, then weigh the heaviest in each section. Don't forget to check that the weighcrate is accurate before you start!



2. Calibrate and maintain equipment



Always check the gun is delivering the right amount before you drench. Calibrate using a graduated pot (shown) or remove the plunger from a 10ml syringe and cover the needle end with a gloved finger. Squirt several doses from the gun into

the top of the syringe to check the volume. Make sure there are no air bubbles. Adjust until correct. Clean dosing equipment with warm soapy water after use and check for kinks and worn seals or springs. Use clean, sterile needles for injecting and always follow manufacturer instructions carefully.

3. Drench and inject correctly

The drenching technique is a vital part of ensuring that the anthelmintic does its job effectively. Make sure the sheep are properly restrained and can't leap around when you are drenching, so they swallow the whole amount. Sheep can also suffer serious injury, or even death, if they are unrestrained and the gun penetrates the tissues at the back of the mouth. Place a hand under the head and tilt slightly to the side. Slot the nozzle in the gap between molar and incisor teeth and then



over the back of the tongue. Injections must be given according to manufacturer's instructions. Subcutaneous products should be given using a 1.6cm needle making sure it is under the skin of the neck 10-15cm below the ear. Intramuscular injections go into the mid neck with a 2.5-4cm needle aiming inwards and upwards towards the head. Moxidectin 2% LA is given at the base of the ear. Massage the site of any injection gently after administration.

Storage

Anthelmintics should be stored securely, away from direct sunlight at 4–25°C. Check the 'use by' date and once open, use within the time shown on the packaging. Shake the white (I-BZ) products well before use.

Anthelmintics – getting it right

Choosing the right product and getting the most from it are key factors not only in the fight against anthelmintic resistance but also in ensuring optimum sheep performance at least cost.

Use the knowledge and experience of your vet or SQP to help you make the right product choice so you get the best results.

Advisors can help you decide which is the most effective for the target parasite(s) and advise on using and interpreting Faecal Egg Counts (FECs).

They will also help you test the efficacy of any treatments given so you know which groups are fully effective on your farm and which are not.

SCOPS wants you to get the most out of every anthelmintic (wormers & flukicides) treatment you give. This leaflet gives you a list of all the product choices available, the parasites covered, withdrawal periods and routes of administration. The key points to remember are:

- Choose the right product. Targeting the parasite(s) correctly means better results and reduces the risk you will need to treat again.
- Use a narrow spectrum product where possible to reduce selection for resistance to the broad spectrum groups.
- Use combination products only when they are necessary.
- Administer anthelmintics effectively and handle and store them correctly.
- Check that the product has been effective by carrying out a simple drench test. Resistance sneaks up on you and this will give you early warning. It will also make sure you are using an effective product that gives good worm control.

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Minimising the Environmental Impacts of Anthelmintics

ALL anthelmintics (wormers & flukicides) approved for use in livestock have undergone a rigorous Environmental Risk Assessment, reviewed by the Veterinary Medicines Directorate (VMD), before any license is granted.

SCOPS principles aim to reduce our reliance on anthelmintics and this in itself will help to minimise our environmental impact. However, some products can have a negative impact on soil and aquatic invertebrates when they are excreted in the dung and/or urine of treated animals or if they are allowed to contaminate water courses or soils.

For more information on any environmental impact identified regarding a product, check the Summary of Product Characteristics (SPC) available using the searchable link below:

<https://www.vmd.defra.gov.uk/productinformationdatabase/Search.aspx>

Always:

- Make sure you read, understand and follow instructions given on the SPC for each product used.
- Take note of any specific warnings, for example those regarding the potential damage to aquatic and soil invertebrates.
- Remember that meat & milk withdrawal periods are not a measure of potential environmental impacts or when it might be 'safe' to graze sensitive conservation areas.
- Dispose of empty containers or residual unwanted product responsibly. These pose a huge risk to the environment if they are allowed to contaminate water courses or soil.

Group 1 - 1-BZ White

Product	Company	Chemical name	Parasites Covered	Use	Trace elements	Meat Withdrawal Period (days)
Albacert	Downland	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	5
Albex 10%	Chanelle Pharma	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral		5
Albex SC 2.5%	Chanelle Pharma	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	5
Benzimole SC 2.5%	Mole Valley	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	5
Bovex 2.265%	Chanelle Pharma	Oxfendazole	Roundworm, Lungworm, Tapeworm	Oral		24
Endospec SC 10%	Bimeda	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	4
Endospec SC 2.5%	Bimeda	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	4
Ovidrench S&C 2.5%	United Farmers	Albendazole	Roundworm, Lungworm, Tapeworm, Liver fluke (adult only)	Oral	Co; Se	4
Panacur 10%	MSD AH	Fenbendazole	Roundworm, Lungworm, Tapeworm	Oral		15
Rycoben SC	Elanco AH	Ricobendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	3
Tramazole SC 2.5%	Tulivin Labs	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	4
Tramazole SC 10%	Tulivin Labs	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	4
Zerofen 10%	Chanelle Pharma	Fenbendazole	Roundworm, Lungworm, Tapeworm	Oral		21
Zerofen 2.5%	Chanelle Pharma	Fenbendazole	Roundworm, Lungworm, Tapeworm	Oral		21

Group 2 - 2-LV Yellow

Product	Company	Chemical name	Parasites Covered	Use	Trace elements	Meat Withdrawal Period (days)
Chanaverm 7.5%	Chanelle Pharma	Levamisole	Roundworm, Lungworm	Oral		20
Levacide 7.5% injection	Norbrook labs	Levamisole	Roundworm, Lungworm	Injection S/C		15
Levacide LV 7.5% oral	Norbrook labs	Levamisole	Roundworm, Lungworm	Oral		21
Levacur SC 3%	MSD AH	Levamisole	Roundworm, Lungworm	Oral	Co; Se	20
Levamole	Mole Valley	Levamisole	Roundworm, Lungworm	Oral		20

The information in these tables was correct to the best of our knowledge at the time of printing (January 2024). Always check the data sheet before using any product.

**You can check the most up to date information on the VMD website at:
<https://www.vmd.defra.gov.uk/ProductInformationDatabase/>**

Group 3 - 3-ML Clear

* Injections: I/M = intramuscular S/C = subcutaneous

Product	Company	Chemical name	Parasites Covered	Use	Meat Withdrawal Period (days)
Animec	Chanelle Pharma	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral drench	10
Bimectin	Bimeda	Ivermectin	Roundworm, Lungworm, Nasal bots	Injection S/C	42
Cyductin 0.1% Drench	Zoetis	Moxidectin	Roundworm, Lungworm	Oral drench	14
Cyductin 1% injection	Zoetis	Moxidectin	Roundworm, Lungworm, Sheep Scab, Nasal bots	Injection S/C	70
Cyductin 2% LA Injection (20mg/ml)	Zoetis	Moxidectin	Roundworm, Lungworm, Sheep Scab, Nasal bots	Injection S/C (base of the ear)	104
Dectomax	Elanco AH	Doramectin	Roundworm, Lungworm, Sheep Scab, Nasal bots	Injection I/M	70
Eprexis Injection (POM-V)	Ceva	Eprinomectin	Roundworms (adults only), Lung worm, Nasal bots	Injection S/C	42
Eprinex - Multi 5mg/ ml pour-on (POM-V)	Boehringer Ingelheim AH	Eprinomectin	Roundworms (adults only), Lung worm (adults only)	Pour-on	2
Ivomec Classic Injection	Boehringer Ingelheim AH	Ivermectin	Roundworm, Lungworm, Sheep scab Nasal bots	Injection S/C	37
Molemec Injection	Mole Valley	Ivermectin	Roundworm, Lungworm, Sheep scab Nasal bots	Injection S/C	37
Molemec Drench	Mole Valley	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral drench	6
Moxodex Oral 0.1%	Chanelle Pharma	Moxidectin	Roundworm, Lungworm	Oral drench	14
Noromectin Drench	Norbrook labs	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral drench	14
Noromectin injection	Norbrook labs	Ivermectin	Roundworm, Lungworm, Sheep scab Nasal bots	Injection S/C	42
Oramec Drench	Boehringer Ingelheim AH	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral drench	6
Panomec injection	Boehringer Ingelheim AH	Ivermectin	Roundworm, Lungworm, Sheep scab Nasal bots	Injection S/C	37
Paramectin injection	Norbrook labs	Ivermectin	Roundworm, Lungworm, Sheep scab Nasal bots	Injection S/C	42
Paramectin Drench	Norbrook labs	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral drench	14
Premadex Drench	Downland	Ivermectin	Roundworms. Lung worm, Nasal bots	Oral drench	14
Premadex 1% injection	Downland	Ivermectin	Roundworm, Lungworm, Sheep scab Nasal bots	Injection S/C	42
Zermex 0.1% Drench	Downland	Moxidectin	Roundworm, Lungworm	Oral	14
Zermex 1% injection	Downland	Moxidectin	Roundworm, Lungworm, Sheep scab Nasal bots	Injection S/C	70
Zermex 2% LA injection (20mg/ml)	Downland	Moxidectin	Roundworm, Lungworm, Sheep scab Nasal bots	Injection S/C (base of ear)	104

Group 4 - 4-AD Orange

Product	Company	Chemical name	Parasites Covered	Use	Meat Withdrawal Period (days)
Zolvix	Elanco AH	Monepantel	Roundworms	Oral	7

Group 5 - 5-SI Purple (Derquantel not available as a single active) Multi-actives

Product	Company	Chemical name	Parasites Covered	Use	Meat Withdrawal Period (days)
STARTECT Dual Active	Zoetis	Derquantel 5-SI Abamectin 3-ML	Roundworms, Lungworm	Oral	14

Combinations

Product	Company	Chemical name	Parasites Covered	Use	Meat Withdrawal Period (days)
Combinex Sheep	Elanco AH	Levamisole + Triclabendazole	Roundworm, Lungworm, Liver Fluke (including immature fluke over 2 days of age)	Oral	56
Cydectin TriclaMox	Zoetis	Moxidectin + Triclabendazole	Roundworm, Lungworm, Liver Fluke (including early immature fluke)	Oral	31
Downland Fluke + Worm	Downland	Levamisole + Oxyclozanide	Roundworm, Lungworm, Liver Fluke (mature fluke only),	Oral	5
Fasimec Duo	Elanco AH	Ivermectin + Triclabendazole	Roundworm, Lungworm, Liver Fluke (down to less than 1 weeks of age)	Oral	27
Levafas Diamond	Norbrook Labs	Levamisole + Oxyclozanide	Roundworm, Lungworm, Liver Fluke (mature fluke only),	Oral	5
Supaverm	Elanco AH	Mebendazole + Closantel	Roundworm, Lungworm, Tapeworm Liver Fluke (including immature fluke over 5 weeks of age)	Oral	65
Tribamec Duo	Chanelle Pharama	Ivermectin + Triclabendazole	Roundworm, Lungworm, Liver Fluke (down to less than 1 weeks of age)	Oral	27

Always choose a narrow spectrum product for liver fluke control, rather than a combination, unless you are sure you need to de-worm as well as treat for liver fluke. Unnecessary use of combinations accelerates the development of resistance.

Narrow Spectrum Products

Product	Company	Chemical name	Parasites Covered	Use	Meat Withdrawal Period (days)
Endofluke	Bimeda	Triclabendazole	Liver Fluke (including early immature liver fluke)	Oral	56
Fasinex 5%	Elanco AH	Triclabendazole	Liver Fluke (including immature liver fluke from 2 days of age)	Oral	56
Flukanide (POM-V)	Univet	Rafoxanide	Liver Fluke (adults only)	Oral	78
Flukiver	Elanco AH	Closantel	Liver Fluke (including immature liver fluke over 5 weeks of age) Haemonchus Contortus Nasal bots	Oral	42
Solantel	Norbrook Labs	Closantel	Liver Fluke (including immature liver fluke over 5 weeks of age) Haemonchus Contortus Nasal bots	Oral	42
Tribex 5%	Chanelle Pharma	Triclabendazole	Liver Fluke (including immature liver fluke)	Oral	56
Triclacert 5%	Downland	Triclabendazole	Liver Fluke (including immature liver fluke)	Oral	56

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