

Sustainable Control of Parasites in Sheep

Know your Anthelmintic Groups 2015



Combinations

Product	Company	Chemical name	Parasites Covered	Use	Meat Withdrawal Period (days)
Closamectin	Norbrook Labs	Ivermectin + Closantel	Roundworm, Lungworm, Liver Fluke (including immature over 7 weeks of age)	Injection S/C	28
Closiver	Downland	Ivermectin + Closantel	Roundworm, Lungworm, Liver Fluke (including immature over 7 weeks of age)	Injection S/C	28
Combinox 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 + Oxytoclozanide	Roundworm, Lungworm, Liver Fluke (adults only), Rumen Fluke	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 + oxytoclozanide	Roundworm, Lungworm, Liver Fluke (adults only), Rumen Fluke	Oral	5
Levitape	Elanco AH	Levamisole + praziquantel	Roundworm, Lungworm, Tapeworm	Oral	28
Mebadown Super	Downland	Mebendazole + closantel	Roundworm, Lungworm, Tapeworm Liver Fluke (including immature fluke over 5 weeks of age)	Oral	65
Supaverm	Elanco AH	Mebendazole + closantel	Roundworm, Lungworm, Tapeworm Liver Fluke (including immature fluke over 5 weeks of age)	Oral	65

Narrow Spectrum Products

Product	Company	Chemical name	Parasites Covered	Use	Meat Withdrawal Period (days)
Endofluka	Bimeda	Triclabendazole	Liver Fluke (including immature liver fluke from 2 days of age)	Oral	56
Fasinex 5%	Elanco AH	Triclabendazole	Liver Fluke (including immature liver fluke from 2 days of age)	Oral	56
Fasinex 100	Elanco AH	Triclabendazole	Liver Fluke (including immature liver fluke from 2 days of age)	Oral	35
Flukiver	Elanco AH	Closantel	Liver Fluke (including immature liver fluke over 5 weeks of age) Haemonchus Contortus* Nasal bots	Oral	42
Tribex 5%	Chanelle AH	Triclabendazole	Liver Fluke (including immature liver fluke from 2 days of age)	Oral	56
Triclacert 5%	Downland	Triclabendazole	Liver Fluke (including immature liver fluke from 2 days of age)	Oral	56
Triclafas Drench	Norbrook Labs	Triclabendazole	Liver Fluke (including immature liver fluke from 2 days of age)	Oral	56
Trodax 34%	Merial AH	Nitroxylinil	Liver Fluke (including immature liver fluke) Haemonchus Contortus*	Injection S/C	49
Zanil	MSD AH	Oxytoclozanide	Liver fluke (adults) and Rumen Fluke		28

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
Albenil Low Dose	Virbac	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral		5
Albenil SC	Virbac	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	5
Albex 10%	Chanelle AH	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	5
Albex SC 2.5%	Chanelle AH	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral		5
Allverm 4%	Elanco AH	Ricobendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	3
Benzimole	Mole Valley	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral		5
Bovex 2.265%	Chanelle AH	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	Oral	Co; Se	4
Fenzol 5%	Norbrook Labs	Fenbendazole	Roundworm, Lungworm, Tapeworm	Oral		14
Ovidown SC	Downland	Oxfendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)		Co; Se	21
Panacur 10%	MSD AH	Fenbendazole	Roundworm, Lungworm, Tapeworm	Oral		15
Parafend LV	Norbrook Labs	Oxfendazole	Roundworm, Lungworm, Tapeworm	Oral		14
Parafend 2.265%	Norbrook Labs	Oxfendazole	Roundworm, Lungworm, Tapeworm	Oral		10
Parafend 5% SC	Norbrook Labs	Oxfendazole	Roundworm, Lungworm, Tapeworm	Oral	Co; Se	14
Rycoben SC	Elanco AH	Ricobendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral	Co; Se	3
Tramazole SC 2.5%	Tulivin/Denimex	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral		4
Zerofen 10%	Chanelle AH	Fenbendazole	Roundworm, Lungworm, Tapeworm	Oral		21
Zerofen 2.5%	Chanelle AH	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 AH	Levamisole	Roundworm, Lungworm	Oral		20
Levacide 3%	Norbrook labs	Levamisole	Roundworm, Lungworm	Oral		21
Levacide injection	Norbrook labs	Levamisole	Roundworm, Lungworm	Injection		15
Levacide low vol	Norbrook labs	Levamisole	Roundworm, Lungworm	Oral		21
Levacur SC 3%	MSD AH	Levamisole	Roundworm, Lungworm	Oral	Co; Se	20
Levamisole injection	Downland	Levamisole	Roundworm, Lungworm	Injection		15
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, but always check the data sheet before using any anthelmintic product.

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	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral drench	10
Bimectin	Bimeda	Ivermectin	Roundworm, Lungworm, Nasal bots	Injection S/C	42
Cydectin 0.1% Drench	Zoetis	Moxidectin	Roundworm, Lungworm	Oral drench	14
Cydectin 1% injection	Zoetis	Moxidectin	Roundworm, Lungworm, Sheep Scab, Nasal bots	Injection S/C	70
Cydectin 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
Depidex	Elanco AH	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral drench	14
Ivomec Classic Injection	Merial 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	Mole Valley	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral	6
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	Merial AH	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral drench	6
Panomec injection	Merial 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	Norbrook labs	Ivermectin	Roundworm, Lungworm, Nasal bots	Oral drench	14
Premadex 1%	Downland	Ivermectin	Roundworm, Lungworm, Sheep scab Nasal bots	Injection S/C	42
Qualimec injection	Elanco AH	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	104

Group 4 - 4-AD Orange

Product	Company	Chemical name	Parasites Covered	Use	Trace elements	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

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.

In practice, this is easier said than done. Working your way through the wide range of products available, the chemical groups, withdrawal periods etc. is difficult and time consuming.

To try and tackle this problem and in response to requests from farmers at meetings and events, SCOPS have put together this leaflet. The aim is to provide accurate, easy to use information on the products available in the various chemical groups and the parasites they control. We want you to get the most out of an anthelmintic every time you use it by helping you to:

- Choose the right product. Targeting the parasite(s) correctly means better results and reduces the risk you will need to treat again.
- Source a narrow spectrum product where appropriate, which will 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.
- Do not mix anthelmintics with any other product prior to administration.
- 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.

Remember, it is not too late to slow the development of anthelmintic resistance on most farms. Act now and safe-guard the future of worm control on your farm.

To help you choose the right product, manufacturers who are NOAH members now add symbols to their packaging showing which group of wormer the product belongs to.

SCOPS – Sustainable Control Of Parasites in Sheep

SCOPS is a group representing the interests of the sheep industry. It recognises that if left unchecked, anthelmintic resistance (AR) is one of the biggest challenges the industry faces in the next few years.

SCOPS includes representatives from the following industry organisations:

AHDA, AMTRA, APHA, Eblex, HCC, Moredun, NFU, NOAH, NSA, QMS, RUMA, Sheep Vet, Society, SRUC, SERAD, Welsh Assembly, VMD and Independent advisers.

www.scops.org.uk

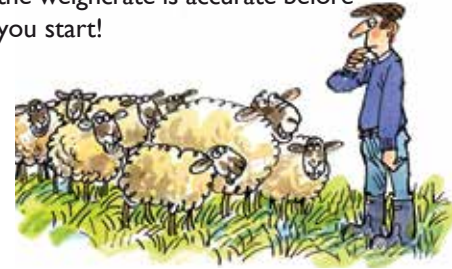
More information on SCOPS can be found on our website



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 put your finger over the end and squirt the dose into it. Make sure there are no air bubbles. Adjust until correct. Clean 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 wormer 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

Wormers 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 well before use, particularly the white (BZ) products.