

Sustainable Control of Parasites in Sheep

Know Your Anthelmintics Groups
Adnabod y Grwpiau Cyffuriau Gwrthlyngyrol



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.

They 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 (wormer) 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.

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 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, AGRISEARCH, AMTRA, APHA, AHDB Beef & lamb, HCC, Moredun, NFU, NOAH, NSA, QMS, RUMA, Sheep Vet. Society, SRUC, SERAD, Welsh Government, VMD and Independent advisers.

www.scops.org.uk



More information on SCOPS can be found on our website

*Visit SCOPS website for details.

Cyffuriau Gwrthlyngryol – gwneud pethau'n iawn

Mae dewis y cynnyrch cywir a chael y gorau ohono yn ffactorau allweddol yn y frwydr yn erbyn ymwrthedd gwrthlyngryol a hefyd wrth sicrhau'r perfformiad gorau gan ddefaid am gost isel.

Defnyddiwch wybodaeth a phrofiad eich milfeddyg neu berson cymwys addas i'ch helpu chi i ddewis y cynnyrch gorau fel eich bod yn cael y canlyniadau gorau.

Mi allant eich helpu chi i benderfynu pa un sydd fwyaf effeithiol ar gyfer y parasitiaid, a rhoi cyngor i chi ar ddefnyddio a dehongli Nifer yr Wyau Mewn Carthion (FECs).

Mae SCOPS eisiau i chi gael y gorau o bob triniaeth gwrthlyngryol rydych yn ei roi. Mae'r daflen hon yn rhoi rhestr o'r cynnyrch sydd ar gael, y parasitiaid y mae'n eu trin, y cyfnod cadw'r defaid o'r gadwyn fwyd a'r ffyrdd o roi'r cynnyrch i'r defaid. Dyma'r prif bethau i'w cofio:

- Dewiswch y cynnyrch cywir. Mae targedu'r parasit(iaid) yn gywir yn golygu canlyniadau gwell, ac mae'n lleihau'r risg y bydd angen i chi drin yr anifeiliaid eto.
- Defnyddiwch gynnyrch sbectrwm cul lle bo hynny'n bosib er mwyn lleihau'r detholiad ar gyfer ymwrthedd i'r grwpiau sbectrwm eang.
- Defnyddiwch gyfuniad o gynnyrch dim ond pan fydd angen.
- Gweinyddwch wrthlyngryddion yn effeithiol a'u trin a'u storio'n gywir.
- Sicrhewch fod y cynnyrch wedi gweithio drwy gynnal prawf drensio* syml. Mae ymwrthedd yn digwydd yn araf, a bydd hyn yn rhoi rhybudd cynnar i chi. Bydd hefyd yn sicrhau eich bod yn defnyddio cynnyrch effeithiol sy'n rheoli llyngyr yn dda.

Cofiwch, nid yw'n rhy hwyr i leihau datblygiad ymwrthedd gwrthlyngryol ar y rhan fwyaf o ffermydd. Gweithredwch nawr er mwyn gwarchod dyfodol rheoli llyngyr ar eich fferm.

Er mwyn eich helpu chi i ddewis y cynnyrch cywir, mae gwneuthurwyr sy'n aelodau o NOAH bellach yn rhoi symbolau ar eu cynnyrch sy'n dangos i ba grŵp lladd llyngyr y mae'r cynnyrch yn perthyn.

Mae SCOPS yn grŵp sy'n cynrychioli buddiannau'r diwydiant defaid. Mae'n cydnabod y bydd ymwrthedd gwrthlyngryol yn un o'r heriau mwyaf a fydd yn wynebu'r diwydiant dros y blynyddoedd sydd i ddod os nad ydym yn cadw llygad arno.

Mae SCOPS yn cynnwys cynrychiolwyr o'r sefydliadau diwydiant isod:

AHDA, AGRISEARCH, AMTRA, APHA, AHDB Beef & lamb, HCC, Moredun, NFU, NOAH, NSA, QMS, RUMA, Sheep Vet Society, SRUC, SERAD, Llywodraeth Cymru, VMD a chynghorwyr Annibynnol.

www.scops.org.uk



Mae rhagor o wybodaeth ar gael ar ein gwefan

*Ewch i wefan SCOPS i gael rhagor o wybodaeth.

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 gloved finger over the end and squirt several doses 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.

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 the white (1-BZ) products well before use.

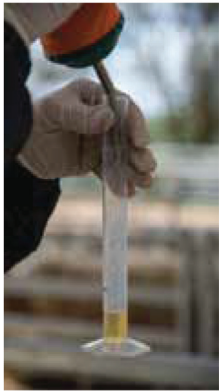
Ydych chi'n drensio ac yn chwistrellu'n gywir?

1. Pwysu – peidiwch â dyfalu

Mae tanamcangyfrif pwysau defaid yn achos cyffredin o roi dos rhy isel. Dewiswch y defaid myaf yn y grŵp er mwyn penderfynu ar y dos cywir. Os oes amrywiaeth mawr mewn pwysau, gallwch ystyried rhannu'r grŵp, a phwysu'r ddafad drymaf ym mhob adran. Cofiwch wirio fod y glorian yn gywir cyn i chi ddechrau!



2. Calibro a chynnal offer



Gwiriwch fod y gwn yn rhoi'r swm cywir bob tro cyn i chi drensio. Calibrwch gan ddefnyddio pot sydd â graddau mesur arno (fel sydd yn y llun) neu gallwch dynnu plymiwr o chwistrell 10ml a rhoi bys (â maneg) dros y top a chwistrellu dosiau i mewn iddo. Gwnewch yn siŵr nad oes swigod aer ynddo.

Dylech ei addasu nes ei fod yn gywir. Defnyddiwch ddŵr a sebon i'w lanhau ar ôl i chi orffen, ac edrychwch i weld a yw wedi plygu, ac a oes oel traul ar y seliau neu'r sbringiau. Defnyddiwch nodwyddau glan a di-haint i chwistrellu a dilynwch gyfarwyddiadau'r gwneuthurwr yn ofalus.

3. Drensio a chwistrellu'n gywir

Mae'r dull drensio yn rhan hanfodol o sicrhau bod y cynnyrch cael gwared ar lyngyr yn gwneud ei waith yn iawn.

Sicrhewch eich bod yn atal y defaid rhag symud fel na allant neidio o gwmpas wrth i chi ddrensio, i sicrhau eu bod yn llyncu'r dos cyfan. Gall defaid hefyd ddiodef anafau difrifol, neu fe allant farw hyd yn oed, os nad ydynt wedi'u hatal rhag symud a bod y gwn yn treiddio'r



meinweoedd yng nghefn y geg. Rhowch un llaw o dan y pen a'i wyro rhywfaint i'r ochr. Rhowch drwyn y biben yn y bwll rhwng y cildant a'r blaenddant ac yna dros gefn y tafod. Mae'n rhaid i bob chwistrelliad gael ei roi yn unol â chyfarwyddiadau'r gwneuthurwr. Dylid rhoi cynnyrch isgroenol gan ddefnyddio nodwydd 1.6cm a sicrhau ei fod o dan groen y gwddf, 10-15cm o dan y glust. Mae pigiadau mewngyhyrol yn cael eu rhoi yng nghanol y gwddf gyda nodwydd 2.5-4cm yn anelu am i mewn ac i fyny tuag at y pen. Mae Moxidectin 2% LA yn cael ei roi yng ngwaelod y glust. Rhwbiwch y croen yn ofalus ar ôl rhoi pigiad.

Storio

Dylai cyffuriau lladd llyngyr gael eu storio yn ddiogel, i ffwrdd o olau'r haul, rhwng 4–25°C. Gwiriwch y dyddiad i'w ddefnyddio erbyn' a'i ddefnyddio o fewn yr amser y mae'n ei nodi ar y pecyn ar ôl i chi ei agor. Dylech ysgwyd y cynnyrch gwyn (I-BZ) yn ddigonol cyn ei ddefnyddio.

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 SC	Virbac	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	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
Ovidrench S&C 10%	United Farmers	Albendazole	Roundworm, Lungworm, Tapeworm, Liver fluke (adult only)	Oral	Co; Se	4
Panacur 10%	MSD AH	Fenbendazole	Roundworm, Lungworm, Tapeworm	Oral		15
Parafend 2.265%	Norbrook Labs	Oxfendazole	Roundworm, Lungworm, Tapeworm	Oral		10
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		4
Tramazole 10%	Tulivin Labs	Albendazole	Roundworm, Lungworm, Tapeworm, Liver Fluke (adult only)	Oral		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		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 2020). 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/>

Hyd eithaf ein gwyoadaeth, roedd yr wybodaeth yn y tablau hyn yn gywir adeg eu hargraffu (mis Ionawr 2020). Darllenwch y daflen ddata bob tro cyn i chi ddefnyddio unrhyw gynnyrch.

Gallwch weld yr wybodaeth ddiweddaraf ar wefan y VMD yn: <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
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
Eprinex - Multi 5mg/ ml pour-on (POM-V)	Boehringer Ingelheim AH	Eprinomectin	Roundworms (adults only), Lungworm (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
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)
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 + Oxyclozanide	Roundworm, Lungworm, Liver Fluke (adults 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 (adults only),	Oral	5
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)
Endofluke	Bimeda	Triclabendazole	Liver Fluke (including early immature liver fluke)	Oral	56
Fasinox 5%	Elanco AH	Triclabendazole	Liver Fluke (including immature liver fluke from 2 days of age)	Oral	56
Flukiver	Elanco AH	Closantel	Liver Fluke (including immature liver fluke over 5 weeks of age) Haemonchus Contortus Nasal bots	Oral	42
Solental	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
Triclafas Drench	Norbrook Labs	Triclabendazole	Liver Fluke (including immature liver fluke)	Oral	56
Trodax 34%	Boehringer Ingelheim AH	Nitroxynil	Liver Fluke (including immature liver fluke from 7 weeks of age) Haemonchus Contortus	Injection S/C	49
Zanil	MSD AH	Oxyclozanide	Liver fluke (adults only)	Oral	14