

GlanEry[®] 7in1 B12

The **NEW GOLD STANDARD** of Sheep Vaccines



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information



The NEW GOLD STANDARD of Sheep Vaccines

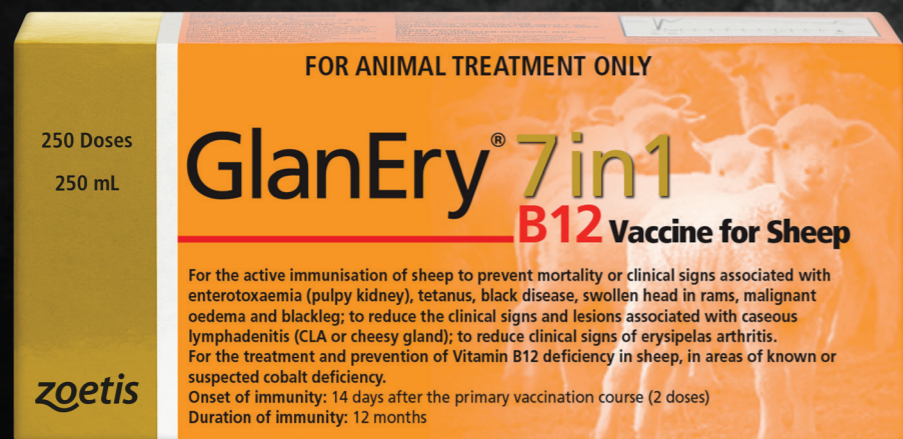
GlanEry[®] 7in1 B12

There are few times on a farm more frustrating than when you have a tail of lame lambs in your mob or worse when they suddenly die.

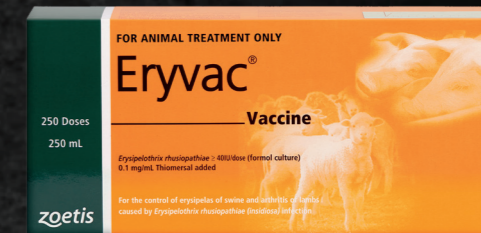
Then there are the losses when you are unable to transport lame lambs or when you get them to the abattoir and there are issues with arthritic joints and Cheesy Gland, causing you losses due to trimming and condemnation. All of this could be prevented with **GlanEry 7in1 B12**.

GlanEry 7in1 B12 is a NEW advanced vaccine that protects your Sheep and Lambs from Erysipelas arthritis, Cheesy Gland (CLA) and the 5 most important Clostridial diseases - Tetanus, Pulpy Kidney (enterotoxaemia), Black Disease, Blackleg and Malignant Oedema - all in a single convenient, highly effective vaccine with the added benefit of being boosted with Vitamin **B12**.

Protect your sheep with the most comprehensive protection in a single 1mL vaccine with GlanEry 7in1 B12



GlanEry 7in1 B12 Vaccine for Sheep has the proven protective power of **Glanvac[®]** and **Eryvac[®]** in a single convenient, highly effective 1mL vaccine plus Vitamin **B12**.



GlanEry 7in1 B12 will provide the most comprehensive vaccination protection in a single sheep vaccine for the most prominent sheep diseases in Australia. In 2015, the MLA found that these diseases cost the Australian sheep industry **\$89 million** annually¹.

ERYSIPELAS ARTHRITIS



CHEESY GLAND (CLA)



5 CLOSTRIDIAL DISEASES



BOOSTED WITH VITAMIN B12

ALL IN A 1ML DOSE



- ✓ Stops **Lame Lambs***
- ✓ Protects your **Wool Cut**
- ✓ **Easy & Convenient** to Use
- ✓ Protects **Meat Quality**
- ✓ More **Lambs to Sell**



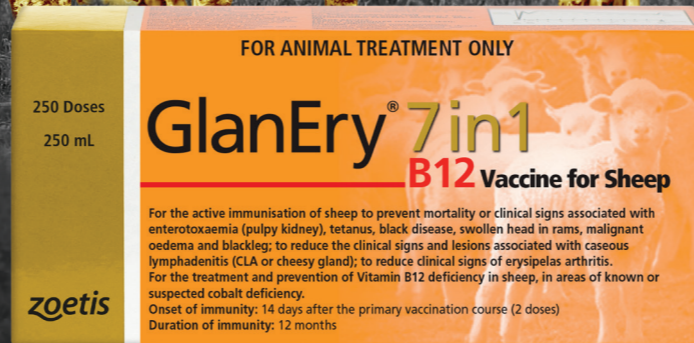
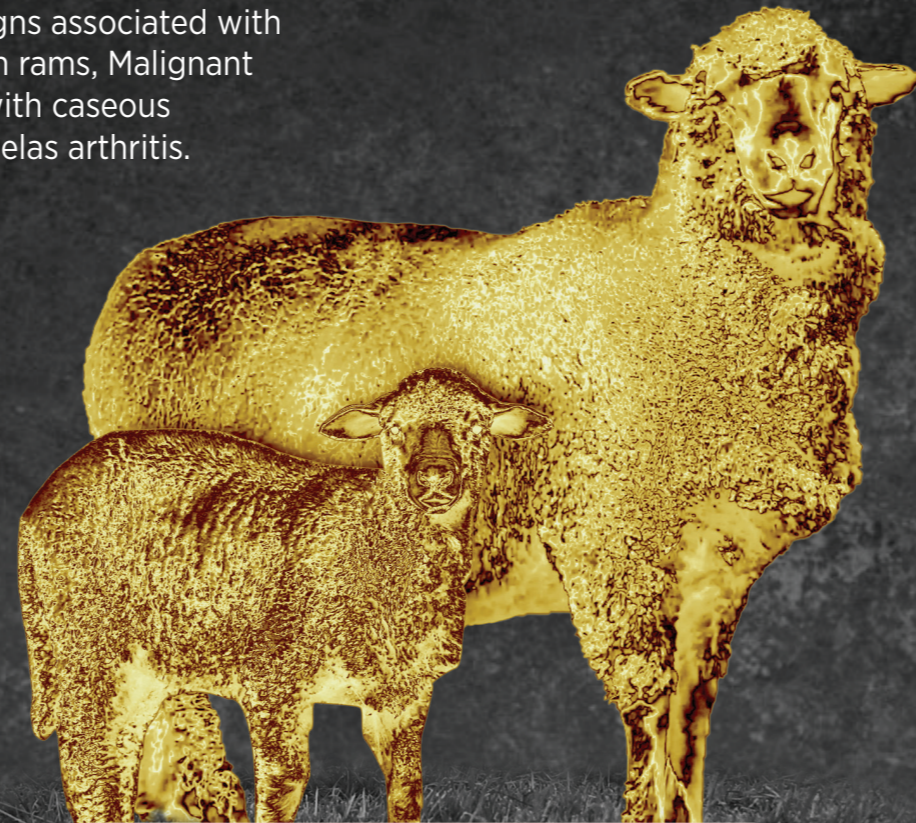
**Developed and Manufactured
HERE in Australia**

PREMIUM PROTECTION WITH GlanEry[®] 7in1 B12

GlanEry 7in1 B12 Indications for use:

For the active immunisation of sheep to prevent mortality or clinical signs associated with Enterotoxaemia (Pulpy Kidney), Tetanus, Black Disease, swollen head in rams, Malignant Oedema and Blackleg; to reduce clinical signs and lesions associated with caseous lymphadenitis (CLA or Cheesy Gland); to reduce clinical signs of Erysipelas arthritis.

For the treatment and prevention of Vitamin B12 deficiency in sheep, in areas of known or suspected cobalt deficiency.



PROTECTS FROM ERYSIPELAS ARTHRITIS

- Stop Lame Lambs from crippling Erysipelas arthritis
- Ensure your lambs are 'Fit to Load'
- The infection rate may be as **high as 15%** leaving unsaleable lambs²
- Protect your meat quality and reduce the tail of the mob
- Have more lambs to sell
- Affects most sheep flocks in Australia

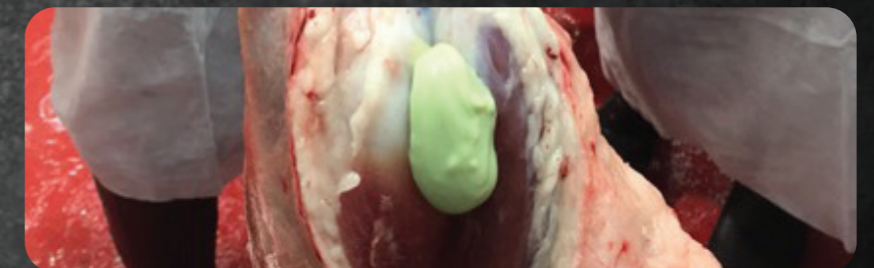
1.4% of lambs born, die before weaning or are culled due to arthritis¹

26% of lamb condemnations are due to arthritis²



PROTECTS FROM CHEESY GLAND (CLA)

- Protect your lamb and ewe carcase quality
- Protect your flocks' productivity
- Protect your wool clip & meat quality
- CLA is a hidden disease that is hard to eliminate
- Affects most sheep flocks in Australia



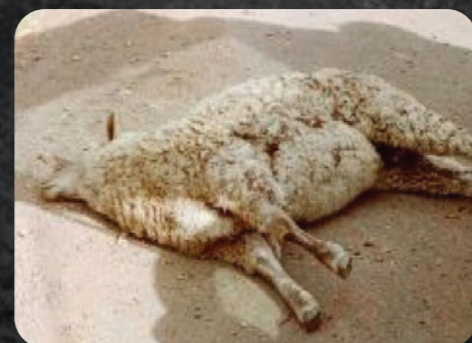
Approx. **50%** of ALL SHEEP lines are shown to be infected with CLA³

CLA infected sheep have a **4-7%** reduction in clean wool cut in the first year of infection⁴

PROTECTS FROM 5 CLOSTRIDIAL DISEASES

+ Tetanus + Pulpy Kidney + Black Disease + Blackleg + Malignant Oedema

- Loss of isolated and multiple sheep and lambs
- Naturally found in the environment throughout Australia
- Causes sudden death
- Affects most sheep flocks in Australia



& BOOSTED WITH VITAMIN B12

- Protect your productivity and enhance growth rates for lambs and ewes through boosting with Vitamin B12
- Most sheep producing areas are susceptible to cobalt deficiency and will respond to supplementation
- Injectable Vitamin B12 is the most efficient and effective mode of supplementing lambs

Vitamin B12 improves **weight gain in lambs by up to 2.8kg** over 12 weeks⁵

Adding Erysipelas arthritis protection to your program makes sense – STOP LAME LAMBS

Erysipelas arthritis, is the **most common cause of lame lambs** on farm and results in significant losses both on farm and at the abattoir.

Losses on farm are due to:

- Culling and early death
- Poor growth rates & later turn off
- Animals that are 'unfit to load'
- Reduced trading options
- Saleyard discounting

Erysipelas spp. caused arthritis in 57.6% - 100% of all cultured positive cases ^{1,2,3}

Losses at the abattoir are due to:

- Trim of each affected leg
- Reduced HSCW (lighter carcasses due to poor growth rates)
- Full carcase condemnations



What causes Erysipelas Arthritis?

Erysipelas arthritis is caused by the bacterium *Erysipelothrix rhusiopathiae*.

The bacteria enters the animal via open wounds.

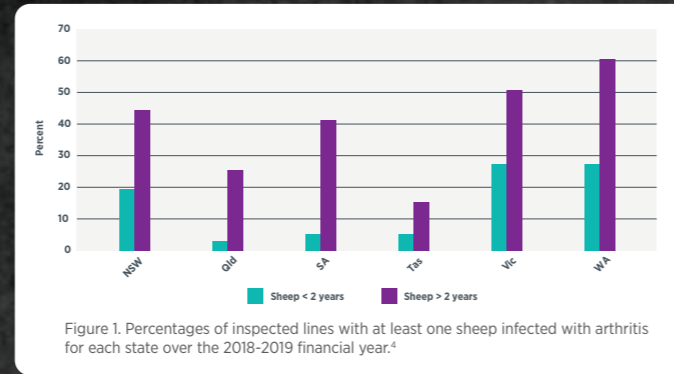
Specific risk times include,

- Marking
- Grass seed infestations
- Mulesing
- Birth through the umbilical cord
- Shearing
- Contaminated wounds
- Dipping



Erysipelas bacteria are spread by sheep, pigs, kangaroos, wallabies, mice, and other mammals, as well as 30 species of birds and some insects. Given it is carried by so many animal species **every farm is at risk**. Erysipelas can also infect humans.

The National Sheep Health Monitoring Project graph clearly shows that the **incidence of sheep arthritis at abattoirs is high**. Especially considering that lame sheep are not transported and are culled on farm.



90% of Australia sheep are in NSW, Vic, SA and WA⁵. In these states **nearly half of all sheep lines** experienced arthritis⁴. For lambs it is **over 20%** of all lines⁴.

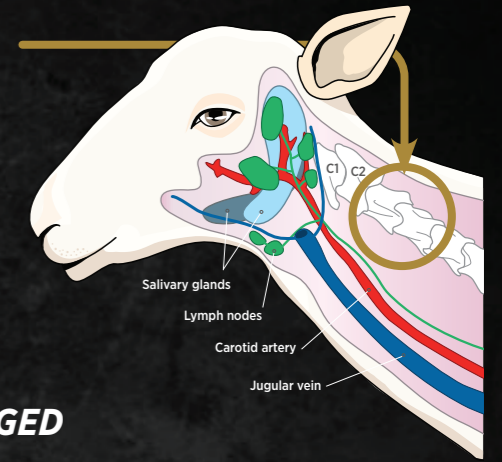
Arthritis reduces carcase weight by 1.2kg before trimming due to poor growth rates⁶ - costing producers

\$9.68 per carcase⁷

Average trim of 3kg per arthritis affected carcase⁸ - costing producers

\$24.21 per carcase⁷

Correct vaccination of GlanEry 7in1 B12



Dose and administration

Inject 1mL, under the skin (subcutaneous), on the side of the neck, approximately **5cm** from the base of the ear.

USE A 6MM (1/4 INCH) NEEDLE, KEEP IT CLEAN AND CHANGE EVERY 50 DOSES OR SOONER IF DAMAGED

Class of Stock	Needle Gauge	Needle Length	Needle Angle to Skin
Lambs	18G	6mm (1/4 inch)	45°
Adults off-shears/short wool/low body condition score	18G	6mm (1/4 inch)	45°
Adults with wool growth	18G	6mm (1/4 inch)	90°

Vaccination Schedule

MOST FLEXIBLE & CONVENIENT 1st VACCINATION SCHEDULE FOR EWES

SHEEP CLASS	VACCINATION (1mL)	AGE
Lambs	First	4 - 6 weeks of age (e.g. marking)
	Second	4 - 6 weeks later (e.g. weaning)
Pregnant Ewes not previously vaccinated	First	From joining to 8 weeks prior to lambing
	Second	Up to 4 weeks prior to lambing
Pregnant Ewes previously vaccinated	Booster	4 - 6 weeks prior to lambing
Unvaccinated adult sheep (ram, wethers and non pregnant ewes)	First	Administer at anytime
	Second	4 - 6 weeks later
Previously vaccinated adult sheep (ram, wethers and non-pregnant ewes)	Booster	Administer annually, 12 months after previous dose

Protect your lambs from birth with a pre-lamb vaccination in the ewes and then their own 2 doses of GlanEry 7in1 B12 to provide 12 months of protection.

TWO DOSES OF VACCINE PLUS BOOSTERS ARE ESSENTIAL



1. Maternal antibodies in the colostrum can interfere with the vaccine, so it's important not to give some vaccines too early in life, until the maternal antibody level has dropped.
2. The first dose of vaccine primes the immune system, but only provides a small amount of short-term protection. In some animals, there may be no protection at all from this dose.
3. It's not until the animal is given the second dose of vaccine that the immune system is capable of providing protection against the disease. In most cases, this protection lasts 12 months.
4. An annual booster dose is required to ensure the immunity of the animal continues to remain high for another 12 months. Without booster doses the animal is at risk of disease.
5. This is the level of immunity required by the animal to provide protection against infection or disease.

Every farm is at risk and needs to be vaccinating with GlanEry 7in1 B12

DON'T FORGET 2 DOSES ARE ESSENTIAL WHEN STARTING A VACCINATION PROGRAM

References: 1. Paton et al, Effect of mulesing and shearing on the prevalence of Erysipelothrix rhusiopathiae arthritis in lambs, Aust Vet J, Vol 81, No 11, November 2003. 2. MLA 2016 An investigation of the potential link between arthritis and tail length in sheep, Project B.AHE.0238. 3. Ferguson E, Munro J (2014) Incidence over a 3 month period of Erysipelothrix rhusiopathiae as a cause of polyarthritis in sheep carcasses in abattoirs in Southern NSW, The official Newsletter of the Australian Sheep Veterinarians 4. NSHMP Annual Report 2018-19, Animal Health Australia. 5. AWI - Sheep numbers by state, 2019, retrieved from 2021 from https://www.wool.com/market-intelligence/sheep-numbers-by-state/. 6. Lloyd et al (2018) Trimming and production losses associated with bacterial arthritis in lambs presented to an abattoir in southern Australia, Animal Production Science. 7. ABARES, National Trade Lamb Indicator at \$8.07 per kg ctw, 2020 average. 8. Farquharson B (2007) Arthritis in Prime Lamb Sheep, A Review. MLA Project B.AHW.123.



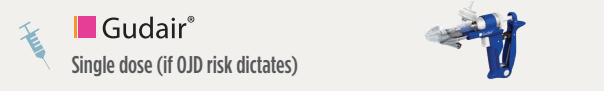

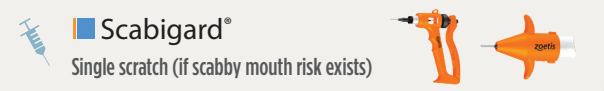
Start using **GlanEry 7in1 B12** today by vaccinating your ewes pre-lamb!

PRE-LAMB PROGRAM EVERY EWE, EVERY YEAR

ZOETIS SHEEP VACCINES CAN BE USED FOR UP TO **30 DAYS**¹ AFTER OPENING. SIMPLY FOLLOW LABEL INSTRUCTIONS*

PREVIOUSLY UNVACCINATED EWES JOINING TO 8 WEEKS PRIOR TO LAMBING	ALL EWES 4 WEEKS BEFORE LAMBING
 <p>GlanEry 7in1 B12 1st "Priming" dose</p>	 <p>GlanEry 7in1 B12 2nd "Booster" dose Annual "Booster" dose</p>
<p>GREATER FLEXIBILITY - the 1st "PRIMING" DOSE can be used from JOINING through to 8 WEEKS before lambing</p>	<p>STARTECT Drench all ewes OR SheepGuard LA + Startect if extended worm protection is required. Drench all ewes.</p> 

HEALTHY LAMB PLAN FOR HEALTHIER AND HEAVIER LAMBS

MARKING	WEANING
 <p>GlanEry 7in1 B12 1st "Priming" dose</p>	 <p>GlanEry 7in1 B12 2nd "Booster" dose</p>
 <p>Gudair Single dose (if OJD risk dictates)</p>	 <p>STARTECT Drench all lambs</p>
 <p>Scabigard Single scratch (if scabby mouth risk exists)</p>	<p>28 DAYS ESI</p> <p>14 DAYS MEAT WHIP</p>

Zoetis recommends using a **18G 6mm (1/4 inch) needle** in all sheep vaccinations. Lambs and shorn sheep at 45° angle and adult full wool sheep at 90°



*This does not include Scabigard which should be discarded after the day of use. Reference 1. Zoetis data on file 2020. Zoetis Australia Pty Ltd. Level 6, 5 Rider Boulevard, Rhodes NSW 2138. © 2021 Zoetis Inc. All rights reserved. April 2021. ZL1390