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[hello@edubits.nz](mailto:hello@edubits.nz).

# Best Practice Intramammary Administration for Dairy Cattle

## Primary Industries

This EduBit is NZVA approved and can be completed as part of your CPD.

Show us you know how to analyse different types of intramammary therapies and sustainable use of each type, and manage appropriate related management techniques to prepare for treatment, administer intramammary therapies and provide aftercare to dairy cattle according to industry recognised practices and techniques.



- Level 5
- Credits 5
- \$99 NZD (GST incl.)

## Assessment

You are required to submit evidence of the following:

1. Analyse the roles of intramammary therapies and select the appropriate administration techniques in optimising mastitis management.
2. Analyse factors contributing to, and select appropriate management techniques for, planning successful herd treatment with intramammary therapies.
3. Administer intramammary therapies and explain aftercare using industry recommended practice and techniques to maximise udder health of dairy animals.

\*Please note that your initial EduBit expires 12 months from the issue date. To remain current, you will need to complete the (smaller) Annual Refresher EduBit. You will receive a reminder one month prior to your EduBit expiry date.

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To earn this EduBit, all work must be your own and you must submit evidence exactly as requested in the Task instructions.

When you've finished gathering your evidence, press Purchase. Trained and experienced assessors are standing by to evaluate your evidence and provide feedback on how you did for each task, as well as how you did overall.

- If your evidence does not yet meet the requirements, we will provide feedback on what is missing and encourage you to practice your skills and attempt the EduBit again at a later date.
- If there are minor gaps in your submission evidence, you will be given the opportunity to resubmit. You will have 14 calendar days to add the missing evidence and submit for re-evaluation.
- If you have any questions, please check our [Frequently Asked Questions](#) or feel free to email us at [hello@edubits.nz](mailto:hello@edubits.nz).

## Learning Recommendations

You are strongly advised to access these Learning Resources and watch the videos before submitting your evidence.

If you are attending an on-farm workshop run by Zoetis or your vet clinic, this may also provide you an excellent opportunity to collect evidence for this EduBit.

[Zoetis Learning Resources](#) include:

- Preventing Mastitis Best Practice Administration (Video)
- Preventing Mastitis Best Practice Administration (Written Guide)
- Dry Cow Therapy Technical Detailer
- Management of Cows at Drying Off Resources

DairyNZ Learning Resources include:

- [Minimising Mastitis and Mastitis Management](#)
- [DairyNZ SmartSAMM Technote 14](#)

## Tasks

### Proof of Identity

Please include a scanned copy of photo identification (e.g. passport, drivers licence, work ID card).

### General Information

*Please provide the following information:*

1. Your current role. e.g. veterinarian, LA veterinary technician, contracted teat seal administrator, share milker, contract milker.
2. Name of employer or place of study.

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3. Length of time you have been in this role.
4. If you are an Otago Polytechnic student, please provide your student ID number.

This information is provided as context for the EduBit Assessor only.

## Task 1: Underpinning Knowledge.

*You will need to:*

1.1. Describe each of the following three (3) intramammary therapies for dairy cattle and give an example of when each therapy would be used:

- Antibiotic dry cow therapy.
- Internal teat sealants.
- Combination therapy (antibiotic dry cow therapy and internal teat sealant).

Maximum 600 words in total.

1.2. Explain at least one (1) major benefit of collecting a sterile milk sample from a cow with mastitis prior to treatment.

1.3. Identify the factors which you must consider when planning the use of internal teat sealants in a herd situation (for example Teatseal® infusion into a herd of heifers). Choose two (2) of these factors, and explain the impact that these two (2) factors will have on both:

- The planning of the day to ensure successful best practice administration.
- The management of successful mastitis prevention.

As two (2) examples, a “factor” may be the number of staff or weather conditions.

1.4. Explain what actions you would take in each of the four (4) scenarios:

- You come across a “blind” quarter, or a teat which is difficult to insert, while infusing teat seal to a herd of heifers.
- While you are teat-sealing, you come across a bleeding teat end. Explain what needs to happen while teat-sealing and afterwards.
- You accidentally dropped a tube before you took the lid off.
- You were struggling to squeeze the tubes because of a cold, frosty morning. You have been given a bucket of hot water. Explain how you would utilise it.

1.5. Describe and explain the aftercare for cows being treated with an intramammary therapy. You must ensure that your answer addresses each of these five (5) areas of aftercare:

- Recording withholding periods.
- Monitoring treated cattle.
- Transporting stock.
- Feed intake (drying off).

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- Where freshly dried off cows are kept in the early dry period.

## Task 2: Preparation.

*You will need to:*

2.1. Provide evidence you have applied best practice to prepare for the infusion of intramammary therapies in a herd of cows. A "herd" may be three (3) or more cows. You may use a current example, or describe a past example.

Your submission must include:

- Identification of cows and how many cows.
- Calculate how many cows will be treated per person.
- Identification of the intramammary therapy or therapies being infused and explanation of the choice of therapy or therapies for this group of cows.
- Identification and explanation of the timing of the treatment of cows.
- Description and explanation of the preparation of the cows in the days and weeks prior to administration of intramammary therapies, and the day of administration.
- Identification and description of the roles of the staff on the intramammary therapy, and description of how staff are briefed so they are adequately prepared for the day.
- Identification and explanation of all equipment you have ready for teat sealing or drying off.

You may upload multiple files, and your submission may be in any of the following formats:

- Video.
- Photographs accompanied by captions and written explanations.
- Written answers.

Please refer to our [Video Evidence](#) and [Photo Evidence Guidelines](#) for help. Your video should be no longer than 5 minutes in length.

## Task 3: Administration and Aftercare.

Please note: You may submit evidence for Task 3 in one of two ways.

Either:

1. A short video or videos of yourself, or
2. A completed attestation form signed by an approved attestor.

We recommend you download and read the attestor form before you decide which way you will submit your evidence for the sub-tasks below. This document also contains a list of approved assessors.

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Download the [Attestation form](#) and make sure it is completed before uploading to this task.

Please refer to our [Video Evidence Guidelines](#) for help.

*You will need to:*

3.1. Provide evidence you have prepared adequately for the task of administering intramammary therapy or therapies. Your video should demonstrate:

- Appropriate clothing.
- Appropriate number of syringes carried.
- Where equipment is kept.
- Hand hygiene.
- Equipment hygiene.

3.2. Provide evidence of preparing the udder and teats for administration on at least three (3) different cows. Your video should demonstrate:

- Appropriate teat cleaning and administration.
- Teat wipe or teat swab inspection.

3.3. Provide evidence you can competently infuse intramammary therapy to the teat canal on at least three (3) different cows. Your video should demonstrate:

- Syringe cap removal.
- Syringe insertion.
- Appropriate use of massage application (or not).
- Practice to keep as much internal teat sealant in the teat as possible.
- Appropriate marking of the cow.
- Hand hygiene.

Your submission should be in the form of a short video (or videos) or completed attestation form. See the overall summary for Task 3 for more details. Any videos should be no longer than 5 minutes in length.



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