

<b>Title</b>	<b>Demonstrate knowledge of microbial-animal interactions</b>		
<b>Level</b>	<b>6</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of normal flora of animals and microbe-induced disease processes in animals; and discuss epidemiology.
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<b>Classification</b>	Science > Microbiology
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<b>Available grade</b>	Achieved
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### Guidance Information

None.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of normal flora of animals.

#### Performance criteria

- 1.1 The animal body is discussed in terms of habitat suitability for microorganisms.  
Range skin, upper respiratory tract, alimentary tract, urogenital tract.
- 1.2 Major microbe groups are described in relation to the rumen.  
Range archaea, bacteria, fungi, protozoa.
- 1.3 The normal flora associations are discussed in terms of their effects on the host.

#### Outcome 2

Demonstrate knowledge of microbe-induced disease processes in animals.

Range bacteria, fungi, protozoa, viruses.

#### Performance criteria

- 2.1 Sources and reservoirs of microbial pathogens are described in terms of the disease process.

2.2 Pathogenesis is discussed in relation to the disease process for an animal.

Range evidence of one animal disease from each microbe group is required.

2.3 Control mechanisms are discussed in relation to the specific animal disease.

### Outcome 3

Discuss epidemiology.

### Performance criteria

3.1 Transmission of infectious diseases is discussed in terms of localised outbreaks, epidemics, and pandemics.

3.2 Role surveillance, typing methods, and intervention in controlling infectious diseases are discussed in terms of animal populations.

<b>Planned review date</b>	31 December 2023
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 December 1996	31 December 2014
Revision	2	19 February 1998	31 December 2014
Review	3	23 November 1999	31 December 2014
Review	4	21 May 2010	N/A
Rollover	5	27 January 2015	N/A
Review	6	27 September 2018	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0113
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

### Comments on this unit standard

Please contact NZQA National Qualifications Services [nqs@nzqa.govt.nz](mailto:nqs@nzqa.govt.nz) if you wish to suggest changes to the content of this unit standard.