

<b>Title</b>	<b>Set up an intravenous drip, and manage an animal while on fluid therapy</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare equipment and the patient; calculate flow rates and administer fluids as directed by the veterinarian; monitor the animal while on the drip; and care for the animal following fluid therapy and dispose of wastes.
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<b>Classification</b>	Animal Care and Handling > Veterinary Nursing
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Unit 5200, <i>Prepare for an intravenous drip, and monitor an animal while on fluid therapy</i> , or demonstrate equivalent knowledge and skills.
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### Guidance Information

- 1 This unit standard applies to situations which may be emergency, intensive care, surgery, or for ongoing fluid replacement.
- 2 For credit, evidence must be in accordance with the statutory and industry requirements contained in the following documents.  
 New Zealand Standard NZS 4304:2002 *Management of Healthcare Waste*.  
 Relevant and current National Animal Welfare Advisory Committee (NAWAC) Codes of Welfare and Codes of Recommendations and Minimum Standards, available at <http://www.maf.govt.nz>, under animal welfare.  
 Relevant New Zealand Veterinary Association (NZVA) standards, available from NZVA, PO Box 11-212, Manners Street, Wellington (<http://www.vets.org.nz>) including the current versions of *Standard Procedures for Veterinary Nursing and Animal Care* (referred to in this unit standard as *standard procedures*) and *BESTPRACTICE™ Companion Animal Practice Standards*.  
 Animal Welfare Act 1999, Health and Safety in Employment Act 1992, and any subsequent amendments.
- 3 **Underpinning Knowledge**  
 The following areas of knowledge underpin performance of the elements in this unit standard:  
 Time to maintain intravenous fluid cannula and tubing before changing and reasons  
 Complications associated with fluid therapy  
 Charting fluid intake and output  
 Central venous pressure.

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## Outcomes and performance criteria

### Outcome 1

Prepare equipment and the patient.

#### Performance criteria

- 1.1 Apparatus required for fluid administration is selected according to individual and circumstances, and assembled using aseptic technique.
- Range gravity feed infusion, volumetric infusion pump, general use giving set, paediatric giving set.
- 1.2 Animal is restrained without injury to self or animal, and suitable site is prepared aseptically.
- 1.3 Intravenous cannula is smoothly inserted using aseptic technique.
- 1.4 Cannula is flushed, secured, and bandaged in a manner which facilitates removal and reduces likelihood of movement or interference by patient.

### Outcome 2

Calculate flow rates and administer fluids as directed by the veterinarian.

#### Performance criteria

- 2.1 Fluid requirement is calculated according to hydration status, daily requirements, and replacement of normal and abnormal losses and flow rate is adjusted accordingly.
- 2.2 Fluid is delivered in volume and intervals as directed by the veterinarian.

### Outcome 3

Monitor the animal while on the drip.

#### Performance criteria

- 3.1 Fluid administration is monitored to ensure flow rates are constant over time and according to patient's requirements.
- Range visual, fluid pump.
- 3.2 Patient's condition is monitored according to standard procedures, and observations are recorded and reported to the veterinarian according to practice protocol.

Range urinary output, rehydration status, demeanour, body weight, colour/moistness of mucous membranes, capillary refill time, respiration, pulse, temperature, Packed Cell Volume (PCV), continuing losses, vomiting, diarrhoea, food/fluid intake.

3.3 Venipuncture site is inspected for abnormalities, and observations are recorded and reported to the veterinarian according to practice protocol.

3.4 Clinical signs are identified, recorded, and reported to the veterinarian according to practice protocol.

Range perivascular leakage, air bubbles, over-hydration, under-hydration, inappropriate fluid selection, positional problems, twisted giving set, back flow of blood up tubing, blocked cannula, patient interference.

3.5 Intravenous cannula is renewed according to standard protocol.

3.6 Patient records are maintained according to practice protocol.

Range patient details, fluid type and volume, patient fluid output, names of personnel involved, time, fluid requirement, other fluid intake.

#### **Outcome 4**

Care for the animal following fluid therapy and dispose of wastes.

#### **Performance criteria**

4.1 Intravenous cannula is removed, site cleaned, and temporary dressing applied as directed by the veterinarian.

4.2 Observations are recorded and reported to the veterinarian according to practice protocol.

4.3 Wastes are disposed of according to standard procedures and NZS 4304:2002.

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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	30 June 1996	31 December 2022
Revision	2	16 December 1996	31 December 2022
Revision	3	16 November 1998	31 December 2022
Revision	4	7 June 2000	31 December 2022
Rollover and Revision	5	25 June 2007	31 December 2022
Review	6	22 October 2020	31 December 2022

<b>Consent and Moderation Requirements (CMR) reference</b>	0228
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.