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AUSTRALIAN PRODUCT INFORMATION



talquetamab solution for injection

WARNING: CYTOKINE RELEASE SYNDROME AND NEUROLOGIC TOXICITY

Cytokine release syndrome (CRS) and neurologic toxicity, including Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS), can occur in patients receiving TALVEY. Manage per section **4.2 DOSE AND METHOD OF ADMINISTRATION**, *Management of severe adverse reactions*, in consultation with the patient's physician.

1. NAME OF THE MEDICINE

talquetamab

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

TALVEY (talquetamab) is a humanised immunoglobulin G4-proline, alanine, alanine (IgG4-PAA)-based bispecific antibody directed against G Protein-coupled receptor family C group 5 member D (GPRC5D) and the cluster of differentiation 3 (CD3) receptors, produced by cultivation of recombinant Chinese hamster ovary cells, followed by isolation, chromatographic purification, and formulation.

TALVEY is available in the following presentations:

- Each 1.5 mL vial contains 3 mg of talquetamab (2 mg of talquetamab per mL)
- Each 1.0 mL vial contains 40 mg of talquetamab (40 mg of talquetamab per mL)

For the full list of excipients, see section 6.1 LIST OF EXCIPIENTS.

3. PHARMACEUTICAL FORM

TALVEY is a colourless to light yellow preservative-free solution for injection.

4. CLINICAL PARTICULARS

4.1 THERAPEUTIC INDICATIONS

TALVEY as monotherapy has **provisional approval** in Australia and is indicated for the treatment of adult patients with relapsed or refractory multiple myeloma, who have previously received at least four prior therapies, including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 antibody.

The decision to approve this indication has been made on the basis of the overall response rate in a single arm study. Continued approval of this indication depends on verification and description of benefit in confirmatory trials.

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4.2 DOSE AND METHOD OF ADMINISTRATION

Dosage – Adults (18 years of age and older)

TALVEY is administered via subcutaneous injection.

Administer pretreatment medications prior to each dose of the TALVEY during the step-up phase (see subsection below **Pretreatment medications**).

Administer TALVEY subcutaneously on a weekly or biweekly (every 2 weeks) dosing schedule according to Table 1.

Table 1: Recommended dose of TALVEY

| Dosing schedule | Day | Dose ^a | | | | |
|------------------------|--|------------------------------|-------------------------|--|--|--|
| Weekly Dosing Schedule | | | | | | |
| Step-up dosing | Step-up dosing Day 1 Step-up dose 1 0.01 mg/kg | | | | | |
| schedule | Day 3 ^b | Step-up dose 2 | 0.06 mg/kg | | | |
| | Day 5 ^b | First treatment dose | 0.4 mg/kg | | | |
| Weekly dosing | One week after first | | | | | |
| schedule | treatment dose and | Subsequent treatment doses | 0.4 mg/kg once weekly | | | |
| | weekly thereafter ^c | · | | | | |
| Biweekly | | | | | | |
| | (ev | ery 2 weeks) dosing schedule | | | | |
| Step-up dosing | Day 1 | Step-up dose 1 | 0.01 mg/kg | | | |
| schedule | Day 3 ^b | Step-up dose 2 | 0.06 mg/kg | | | |
| | Day 5 ^b | Step-up dose 3 | 0.4 mg/kg | | | |
| | Day 7 ^b | First treatment dose | 0.8 mg/kg | | | |
| Biweekly | Two weeks after first | | | | | |
| (every 2 weeks) | treatment dose and | Cuba aquant traatment daga | 0.0 mg/kg over 2 weeks | | | |
| dosing schedule | every 2 weeks | Subsequent treatment doses | 0.8 mg/kg every 2 weeks | | | |
| _ | thereafterc | | | | | |

a Based on actual body weight

Instruct patients to remain within proximity of a healthcare facility and monitor patients for 48 hours after administration of all doses within the TALVEY step-up phase for signs and symptoms of cytokine release syndrome (CRS) and immune effector cell-associated neurotoxicity syndrome (ICANS). (see subsections below Section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE - Cytokine Release Syndrome and Neurologic toxicities, including Immune effector cell-associated neurotoxicity syndrome (ICANS))

Continue treatment until disease progression or unacceptable toxicity.

Pretreatment medications

Administer the following pretreatment medications 1 to 3 hours before each dose of the TALVEY step-up phase to reduce the risk of CRS (see section **4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE – Cytokine Release Syndrome**).

- · Corticosteroid (oral or intravenous dexamethasone, 16 mg or equivalent)
- Antihistamine (oral or intravenous diphenhydramine, 50 mg or equivalent)
- Antipyretics (oral paracetamol 500 mg to 1000 mg)

Administration of pretreatment medications may be required for subsequent doses of TALVEY for patients who repeat doses within the TALVEY step-up phase due to dose delays (Table 2) or for patients who experience CRS (Table 3).

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b Dose may be administered between 2 to 4 days after the previous dose and may be given up to 7 days after the previous dose to allow for resolution of adverse reactions.

^c Maintain a minimum of 6 days between weekly doses and a minimum of 12 days between biweekly (every 2 weeks) doses.

Restarting TALVEY after dose delays

If a dose of TALVEY is delayed, restart therapy based on the recommendations listed in Table 2 and resume weekly or biweekly (every 2 weeks) dosing accordingly (see subsection above **Dosage – Adults (18 years of age and older))**. Administer pretreatment medications prior to restarting TALVEY and monitor patients following administration of TALVEY accordingly (see subsection above **Pretreatment medications)**.

Table 2: Recommendations for restarting TALVEY after dose delay

| Dosing schedule | Last dose administered | Time from last dose administered | TALVEY recommendation* |
|-----------------|------------------------|----------------------------------|------------------------|
| | 0.01 mg/kg | More than 7 days | Restart at 0.01 mg/kg |
| | 0.06 mg/kg | 8 to 28 days | Repeat 0.06 mg/kg |
| Weekly | 0.06 mg/kg | More than 28 days | Restart at 0.01 mg/kg |
| dosing schedule | | 8 to 35 days | Repeat 0.4 mg/kg |
| | 0.4 mg/kg | 36 to 56 days | Restart at 0.06 mg/kg |
| | | More than 56 days | Restart at 0.01 mg/kg |
| | • | • | · |
| | 0.01 mg/kg | More than 7 days | Restart at 0.01 mg/kg |
| | 0.06 mg/kg | 8 to 28 days | Repeat 0.06 mg/kg |
| | | More than 28 days | Restart at 0.01 mg/kg |
| Biweekly | | 8 to 35 days | Repeat 0.4 mg/kg |
| (every 2 weeks) | 0.4 mg/kg | 36 to 56 days | Restart at 0.06 mg/kg |
| dosing schedule | | More than 56 days | Restart at 0.01 mg/kg |
| _ | | 14 to 35 days | Repeat 0.8 mg/kg |
| | 0.8 mg/kg | 36 to 56 days | Restart at 0.4 mg/kg |
| | | More than 56 days | Restart at 0.01 mg/kg |

Administer pretreatment medications prior to restarting TALVEY. After restarting TALVEY, resume weekly or biweekly (every 2 weeks) dosing accordingly (see Section 4.2 DOSAGE AND METHOD OF ADMINISTRATION – Dosage - Adults (18 years of age and older)).

Dose modifications for adverse reactions

Dose delays may be required to manage toxicities related to TALVEY (see section **4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE**).

See Table 3, Table 4 and Table 5 for recommended actions for the management of CRS, ICANS and neurologic toxicities. See Table 6 for recommended dose modifications for other adverse reactions.

Management of severe adverse reactions

Cytokine release syndrome (CRS)

Identify CRS based on clinical presentation (see section **4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE – Cytokine Release Syndrome**). Evaluate and treat other causes of fever, hypoxia, and hypotension. If CRS is suspected, withhold TALVEY until the adverse reaction resolves and manage according to the recommendations in Table 3. Administer supportive care for CRS which may include intensive care for severe or life-threatening CRS. Consider laboratory testing to monitor for disseminated intravascular coagulation (DIC), hematology parameters, as well as pulmonary, cardiac, renal, and hepatic function.

Table 3: Recommendation for management of CRS

| CRS Grade ^a | TALVEY Actions | Tocilizumab ^b | Corticosteroids ^c |
|------------------------|-------------------------------------|--------------------------|------------------------------|
| Grade 1 | Withhold TALVEY until CRS resolves. | May be considered. | Not applicable |
| Temperature ≥ 38°C ° | | | |

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| CRS Grade ^a | TALVEY Actions | Tocilizumab ^b | Corticosteroids ^c |
|--|--|---|--|
| | Administer pretreatment medication prior to next dose of TALVEY. | | |
| Grade 2 Temperature ≥ 38°C^d with either: Hypotension responsive to fluids and not requiring vasopressors, or Oxygen requirement of low-flow nasal cannulae or blow-by. | Withhold TALVEY until CRS resolves. Administer pretreatment medications prior to next dose of TALVEY. Monitor patient daily for 48 hours following the next dose of TALVEY. Instruct patients to remain within proximity of a healthcare facility during daily monitoring. | Administer tocilizumab ^c 8 mg/kg intravenously over 1 hour (not to exceed 800 mg). Repeat tocilizumab every 8 hours as needed, if not responsive to intravenous fluids or increasing supplemental oxygen. Limit to a maximum of 3 doses in a 24-hour period; maximum total of 4 doses. | If no improvement within 24 hours of starting tocilizumab, administer methylprednisolone 1 mg/kg intravenously twice daily, or dexamethasone 10 mg intravenously every 6 hours. Continue corticosteroid use until the event is Grade 1 or less, then taper over 3 days. |
| Grade 3 Temperature ≥ 38°C ^d with either: | Duration < 48 hours Per Grade 2. | Administer tocilizumab 8 mg/kg intravenously over 1 hour (not to exceed 800 mg). | If no improvement, administer methylprednisolone 1 mg/kg intravenously |
| Hypotension requiring one vasopressor, with or without vasopressin, or Oxygen requirement of high-flow nasal cannula^e, facemask, non-rebreather mask, or Venturi mask | Recurrent or Duration ≥ 48 hours Permanently discontinue TALVEY. | Repeat tocilizumab every 8 hours as needed, if not responsive to intravenous fluids or increasing supplemental oxygen. Limit to a maximum of 3 doses in a 24-hour period; maximum total of 4 doses. | twice daily or dexamethasone (e.g., 10 mg intravenously every 6 hours). Continue corticosteroid use until the event is Grade 1 or less, then taper over 3 days. |
| Grade 4 Temperature ≥ 38°C ^d with either: | Permanently discontinue TALVEY. | Administer tocilizumab 8 mg/kg intravenously over 1 hour (not to exceed 800 mg). | As above or administer methylprednisolone 1000 mg intravenously per day for 3 days, per physician discretion. |
| Hypotension requiring multiple vasopressors (excluding vasopressin). | | Repeat tocilizumab every 8 hours as needed, if not responsive to intravenous fluids or increasing supplemental oxygen. | If no improvement or if condition worsens, consider alternate immunosuppressants ^c |
| Or, oxygen requirement of positive pressure (e.g., continuous positive airway pressure [CPAP], bilevel positive airway pressure [BiPAP], intubation, and mechanical ventilation) | | Limit to a maximum of 3 doses in a 24-hour period; maximum total of 4 doses. | |

- Based on ASTCT grading for CRS (Lee et al 2019).
- b Refer to tocilizumab prescribing information for details.
- ^c Treat unresponsive CRS per institutional guidelines.
- d Attributed to CRS. Fever may not always be present concurrently with hypotension or hypoxia as it may be masked by interventions such as antipyretics or anti-cytokine therapy (e.g., tocilizumab or corticosteroids).
- e Low-flow nasal cannula is ≤6 L/min, and high-flow nasal cannula is >6 L/min.

Neurologic toxicities, including Immune effector cell-associated neurotoxicity syndrome (ICANS)

At the first sign of neurologic toxicity, including ICANS, withhold TALVEY and consider neurology evaluation. Rule out other causes of neurologic symptoms. Provide supportive therapy, which may

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include intensive care, for severe or life-threatening ICANS (see section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE – Neurologic toxicities, including Immune effector cell-associated neurotoxicity syndrome (ICANS). Management recommendations for ICANS and neurologic toxicity are summarised in Table 4 and Table 5.

Table 4: Recommendations for management of ICANS.

| ICANS Grade ^{a, b} | Concurrent CRS | No Concurrent CRS | | |
|--|--|--|--|--|
| Grade 1 | Management of CRS per Table 3 | Monitor neurologic symptoms. | | |
| ICE ^c score 7-9 | Monitor neurologic symptoms. | | | |
| or depressed level of | Withhold TALVEY until ICANS resolves. | | | |
| consciousness ^d : awakens spontaneously. | Consider non-sedating, anti-seizure medic prophylaxis. | ines (e.g., levetiracetam) for seizure | | |
| Grade 2 ICE ^c score 3-6 or depressed level of consciousness ^d : awakens to voice. | Administer tocilizumab per Table 3 for management of CRS. If no improvement after starting tocilizumab, administer dexamethasonee 10 mg intravenously every 6 hours if not already taking other corticosteroids. Continue dexamethasone use until resolution to Grade 1 or less, then taper. | Administer dexamethasone ^e 10 mg intravenously every 6 hours. Continue dexamethasone use until resolution to Grade 1 or less, then taper. | | |
| | Consider non-sedating, anti-seizure medic prophylaxis. Monitor patient daily for 48 hours following patients to remain within proximity of a hea monitoring. | the next dose of TALVEY. Instruct | | |
| Grade 3 ICE ^c score 0-2 (If ICE score is 0, but the patient is arousable (e.g., awake with global aphasia) and able to perform assessment) or depressed level of | Administer tocilizumab per Table 3 for management of CRS. Administer dexamethasone ^e 10 mg intravenously with the first dose of tocilizumab and repeat dose every 6 hours. Continue dexamethasone use until resolution to Grade 1 or less, then taper. | Administer dexamethasone ^e 10 mg intravenously every 6 hours. Continue dexamethasone use until resolution to Grade 1 or less, then taper. | | |
| consciousness ^d : awakens only to tactile stimulus, | Consider non-sedating, anti-seizure medic prophylaxis. | I ines (e.g., levetiracetam) for seizure | | |
| or seizures ^d , either: any clinical seizure, focal or generalised, that resolves rapidly, or non-convulsive seizures on electroencephalogram (EEG) that resolve with intervention, | First Occurrence: Withhold TALVEY until ICANS resolves. Monitor patient daily for 48 hours following patients to remain within proximity of a heamonitoring. Recurrent: | | | |
| or raised intracranial pressure: focal/local oedema on neuroimaging ^d . | Permanently discontinue TALVEY. | | | |

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| ICANS Grade ^{a, b} | Concurrent CRS | No Concurrent CRS |
|---|--|--|
| Grade 4 | Administer tocilizumab per Table 3 | Administer dexamethasone ^e |
| 1050 | for management of CRS. | 10 mg intravenously and repeat |
| ICE ^c score 0 | Administra devenanthese as 2 10 | dose every 6 hours. Continue |
| (Patient is unarousable and unable to perform ICE | Administer dexamethasonee 10 mg intravenously and repeat | dexamethasone use until resolution to Grade 1 or less, then taper. |
| assessment) | dose every | to Grade 1 of less, their taper. |
| docosmenty | 6 hours. Continue dexamethasone | Alternatively, consider administration |
| or depressed level of | use until resolution to Grade 1 or | of methylprednisolone 1000 mg per |
| consciousness ^d either: | less, then taper. | day intravenously for 3 days; if |
| patient is unarousable or | | improves, then manage as above. |
| requires vigorous or repetitive | Alternatively, consider administration | |
| tactile stimuli to arouse, or | of methylprednisolone 1000 mg per | |
| atunar ar asma | day intravenously with first dose of | |
| stupor or coma, or seizures^d, either: | tocilizumab, and continue methylprednisolone 1000 mg per | |
| * | day intravenously for 2 or more days | |
| life-threatening prolonged seizure (>5 minutes), or | day initiation basis for 2 of more days | |
| repetitive clinical or electrical | Permanently discontinue TALVEY. | |
| seizures without return to | | |
| baseline in between, | Consider non-sedating, anti-seizure me | dicines (e.g., levetiracetam) for seizure |
| | prophylaxis. | |
| or motor findings ^d : | In case of raised intracranial pressure/c | orobral godoma, refer to local |
| deep focal motor weakness | institutional guidelines for management | |
| such as hemiparesis or | mondification and guidelines for management | • |
| paraparesis, | | |
| or raised intracranial | | |
| pressure/cerebral oedema ^d , with | | |
| signs/symptoms such as: | | |
| · diffuse cerebral oedema on | | |
| neuroimaging, or | | |
| decerebrate or decorticate | | |
| posturing, or | | |
| cranial nerve VI palsy, or | | |
| papilledema, or | | |
| Cushing's triad. Management is determined by the | most savare event not attributable to any othe | |

- ^a Management is determined by the most severe event, not attributable to any other cause.
- b ASTCT 2019 grading for ICANS.
- If patient is arousable and able to perform Immune Effector Cell-Associated Encephalopathy (ICE) Assessment, assess:

 Orientation (oriented to year, month, city, hospital = 4 points); Naming (name 3 objects, e.g., point to clock, pen, button = 3 points); Following Commands (e.g., "show me 2 fingers" or "close your eyes and stick out your tongue" = 1 point); Writing (ability to write a standard sentence = 1 point; and Attention (count backwards from 100 by ten = 1 point). If patient is unarousable and unable to perform ICE Assessment (Grade 4 ICANS) = 0 points.
- d Attributable to no other cause.
- e All references to dexamethasone administration are dexamethasone or equivalent

Table 5: Recommendations for Management of Neurologic Toxicity (excluding ICANS)

| Adverse Reaction | Severity | Actions |
|--|---------------------------------------|--|
| Neurologic Toxicity ^a (excluding ICANS) | Grade 1 | Withhold TALVEY until neurologic toxicity symptoms resolve or stabilise. ^b |
| | Grade 2 Grade 3 (First occurrence) | Withhold TALVEY until neurologic toxicity symptoms improved to Grade 1 or less. ^b Provide supportive therapy. |
| | Grade 3 (Recurrent) Grade 4 | Permanently discontinue TALVEY. Provide supportive care, which may include intensive care. |

^a Based on National Cancer Institute Common Terminology Criteria for Adverse Events (NCI-CTCAE), Version 4.03.

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See Table 2 for recommendations on restarting TALVEY after dose delays.

Other adverse reactions

The recommended dose modifications for other adverse reactions are provided in Table 6.

Table 6: Recommended dose modifications for other adverse reactions

| Adverse reaction | Severity | Dose modification |
|--|--|--|
| Serious infections (see section 4.4 SPECIAL WARNINGS AND | All Grades | Withhold TALVEY in the step-up phase until infection resolves. |
| PRECAUTIONS FOR USE) | Grade 3-4 | Withhold TALVEY during the treatment phase until infection improves to Grade 2 or better. |
| Cytopenias (see section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR | Absolute neutrophil count less than 0.5 x 10 ⁹ /L | Withhold TALVEY until absolute neutrophil count is 0.5 x 10⁹/L or higher. |
| USE) | Febrile neutropenia | Withhold TALVEY until absolute neutrophil count is 1.0 x 10⁹/L or higher and fever resolves. |
| | Haemoglobin less than 8 g/dL | Withhold TALVEY until haemoglobin is 8 g/dL or higher. |
| | Platelet count less than 25,000/µL | Withhold TALVEY until platelet count is 25,000/µL or higher and no evidence of bleeding. |
| | Platelet count between 25,000/µL and 50,000/µL with bleeding | |
| Oral toxicity (see section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE) | All grades | Interrupt TALVEY or consider less frequent dosing (biweekly [every 2 weeks] instead of weekly, monthly instead of biweekly) until improvement. |
| Skin reactions (see section 4.4 SPECIAL WARNNGS AND PRECAUTIONS FOR USE) | Grade 3-4 | Withhold TALVEY until adverse reaction improves to Grade 1 or baseline. |
| Other non-haematologic adverse reactions ^a (see section 4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS) | Grade 3-4 | Withhold TALVEY until adverse reaction improves to Grade 1 or baseline. |

Based on National Cancer Institute Common Terminology Criteria for Adverse Events (NCI-CTCAE), Version 4.03.

Dosage in Special Populations

Use in renal impairment

No formal studies of TALVEY in patients with renal impairment have been conducted.

Based on population pharmacokinetic analyses, no dose adjustment is recommended for patients with mild or moderate renal impairment. (see section **5.2 PHARMACOKINETIC PROPERTIES**).

Use in hepatic impairment

No formal studies of talquetamab in patients with hepatic impairment have been conducted.

Based on population pharmacokinetic analyses, no dose adjustment is recommended for patients with mild or moderate hepatic impairment. (see section **5.2 PHARMACOKINETIC PROPERTIES**).

Administration

Administer TALVEY via subcutaneous injection.

TALVEY should be administered by a healthcare professional with adequate medical equipment and personnel to manage severe reactions, including cytokine release syndrome (see section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE – Cytokine Release Syndrome).

TALVEY 2 mg/mL vial and 40 mg/mL vial are supplied as ready-to-use solution for injection that do not need dilution prior to administration.

Do not combine TALVEY vials of different concentrations to achieve treatment dose.

Use aseptic technique to prepare and administer TALVEY.

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Preparation of TALVEY

- Refer to the following reference tables for the preparation of TALVEY.
 - Use Table 7 to determine total dose, injection volume, and number of vials required based on patient's actual body weight for the 0.01 mg/kg dose using TALVEY 2 mg/mL vial.

Table 7: 0.01 mg/kg Dose: Injection volumes using TALVEY 2 mg/mL vial

| | Body weight (kg) | Total dose (mg) | Volume of injection (mL) | Number of vials (1 vial = 1.5 mL) |
|------------|------------------|--------------------|--------------------------|--------------------------------------|
| | 35 to 39 | 0.38 | 0.19 | 1 |
| | 40 to 45 | 0.42 | 0.21 | 1 |
| | 46 to 55 | 0.5 | 0.25 | 1 |
| | 56 to 65 | 0.6 | 0.3 | 1 |
| | 66 to 75 | 0.7 | 0.35 | 1 |
| 0.01 mg/kg | 76 to 85 | 0.8 | 0.4 | 1 |
| Dose | 86 to 95 | 0.9 | 0.45 | 1 |
| | 96 to 105 | 1.0 | 0.5 | 1 |
| | 106 to 115 | 1.1 | 0.55 | 1 |
| | 116 to 125 | 1.2 | 0.6 | 1 |
| | 126 to 135 | 1.3 | 0.65 | 1 |
| | 136 to 145 | 1.4 | 0.7 | 1 |
| | 146 to 155 | 1.5 | 0.75 | 1 |
| | 156 to 160 | 1.6 | 0.8 | 1 |

 Use Table 8 to determine total dose, injection volume, and number of vials required based on patient's actual body weight for the 0.06 mg/kg dose using TALVEY 2 mg/mL vial.

Table 8: 0.06 mg/kg Dose: Injection volumes using TALVEY 2 mg/mL vial

| | Body weight (kg) | Total dose (mg) | Volume of injection (mL) | Number of vials (1 vial = 1.5 mL) |
|------------|---------------------|--------------------|--------------------------|--------------------------------------|
| | 35 to 39 | 2.2 | 1.1 | 1 |
| | 40 to 45 | 2.6 | 1.3 | 1 |
| | 46 to 55 | 3 | 1.5 | 1 |
| | 56 to 65 | 3.6 | 1.8 | 2 |
| | 66 to 75 | 4.2 | 2.1 | 2 |
| 0.06 mg/kg | 76 to 85 | 4.8 | 2.4 | 2 |
| Dose | 86 to 95 | 5.4 | 2.7 | 2 |
| | 96 to 105 | 6 | 3 | 2 |
| | 106 to 115 | 6.6 | 3.3 | 3 |
| | 116 to 125 | 7.2 | 3.6 | 3 |
| | 126 to135 | 7.8 | 3.9 | 3 |
| | 136 to145 | 8.4 | 4.2 | 3 |
| | 146 to155 | 9 | 4.5 | 3 |
| | 156 to160 | 9.6 | 4.8 | 4 |

 Use Table 9 to determine total dose, injection volume, and number of vials required based on patient's actual body weight for the 0.4 mg/kg dose using TALVEY 40 mg/mL vial.

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Table 9: 0.4 mg/kg Dose: Injection volumes using TALVEY 40 mg/mL vial

| | Body | Total dose | Volume of injection | Number of vials |
|-----------|-------------|------------|---------------------|-------------------|
| | weight (kg) | (mg) | (mL) | (1 vial = 1.0 mL) |
| | 35 to 39 | 14.8 | 0.37 | 1 |
| | 40 to 45 | 16 | 0.4 | 1 |
| | 46 to 55 | 20 | 0.5 | 1 |
| | 56 to 65 | 24 | 0.6 | 1 |
| | 66 to 75 | 28 | 0.7 | 1 |
| 0.4 mg/kg | 76 to 85 | 32 | 0.8 | 1 |
| Dose | 86 to 95 | 36 | 0.9 | 1 |
| | 96 to 105 | 40 | 1 | 1 |
| | 106 to 115 | 44 | 1.1 | 2 |
| | 116 to 125 | 48 | 1.2 | 2 |
| | 126 to 135 | 52 | 1.3 | 2 |
| | 136 to 145 | 56 | 1.4 | 2 |
| | 146 to 155 | 60 | 1.5 | 2 |
| | 156 to 160 | 64 | 1.6 | 2 |

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 Use Table 10 to determine total dose, injection volume, and number of vials required based on patient's actual body weight for the 0.8 mg/kg dose using TALVEY 40 mg/mL vial.

Table 10: 0.8 mg/kg Dose: Injection volumes using TALVEY 40 mg/mL vial

| | Body weight (kg) | Total dose (mg) | Volume of injection (mL) | Number of vials (1 vial = 1.0 mL) |
|-----------|------------------|--------------------|--------------------------|--------------------------------------|
| | 35 to 39 | 29.6 | 0.74 | 1 |
| | 40 to 45 | 34 | 0.85 | 1 |
| | 46 to 55 | 40 | 1 | 1 |
| | 56 to 65 | 48 | 1.2 | 2 |
| | 66 to 75 | 56 | 1.4 | 2 |
| 0.8 mg/kg | 76 to 85 | 64 | 1.6 | 2 |
| Dose | 86 to 95 | 72 | 1.8 | 2 |
| | 96 to 105 | 80 | 2 | 2 |
| | 106 to 115 | 88 | 2.2 | 3 |
| | 116 to 125 | 96 | 2.4 | 3 |
| | 126 to 135 | 104 | 2.6 | 3 |
| | 136 to 145 | 112 | 2.8 | 3 |
| | 146 to 155 | 120 | 3 | 3 |
| | 156 to 160 | 128 | 3.2 | 4 |

- Visually inspect the TALVEY solution for injection is colourless to light yellow. Do not use if the solution is discoloured, cloudy, or if foreign particles are present.
- Remove the appropriate strength TALVEY vial(s) from refrigerated storage 2°C to 8°C and equilibrate to ambient temperature 15°C to 30°C for at least 15 minutes in the original carton protected from light. Do not warm TALVEY in any other way.
- Once equilibrated, gently swirl the vial for approximately 10 seconds to mix. Do not shake.
- Withdraw the required injection volume of TALVEY from the vial(s) into an appropriately sized syringe using a transfer needle. Each injection volume should not exceed 2.0 mL. Divide doses requiring greater than 2.0 mL equally into multiple syringes.
- TALVEY is compatible with stainless steel injection needles and polypropylene or polycarbonate syringe material.
- Replace the transfer needle with an appropriately sized needle for injection.

Administration of TALVEY

- Inject the required volume of TALVEY into the subcutaneous tissue of the abdomen (preferred injection site). Alternatively, TALVEY may be injected into the subcutaneous tissue at other sites (e.g., thigh). If multiple injections are required, TALVEY injections should be at least 2 cm apart.
- Do not inject into tattoos or scars or areas where the skin is red, bruised, tender, hard or not intact.
- Any unused medicinal product or waste material should be disposed in accordance with local requirements.
- Product is for single use in one patient only. Discard any residue.

4.3 CONTRAINDICATIONS

Hypersensitivity to the active substance or to any of the excipients listed in section **6.1 LIST OF EXCIPIENTS**.

4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE

Cytokine release syndrome (CRS)

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Cytokine release syndrome, including life-threatening or fatal reactions, may occur in patients receiving TALVEY (See section **4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS)**). Clinical signs and symptoms of CRS may include but are not limited to pyrexia, hypotension, chills, hypoxia, headache, and tachycardia. Potentially life-threatening complications of CRS may include cardiac dysfunction, acute respiratory distress syndrome, neurologic toxicity, renal and/or hepatic failure, and disseminated intravascular coagulation (DIC).

Initiate TALVEY therapy with step-up phase dosing and administer pre-treatment medications (corticosteroids, antihistamine, and antipyretics) prior to each dose of TALVEY during the step-up phase to reduce the risk of CRS Monitor patients following administration of TALVEY accordingly. In patients who experience CRS, administer pre-treatment medications prior to the next TALVEY dose (see section 4.2 DOSE AND METHOD OF ADMINISTRATION – Dosage - Adults (18 years and older), Pretreatment medications and Dose Modifications for adverse reactions).

Counsel patients to seek medical attention should signs or symptoms of CRS occur. A Patient Card to inform patients of CRS associated with TALVEY is available. The Patient Card should be kept with the patient at all times whilst on treatment.

At the first sign of CRS, immediately evaluate patient for hospitalisation and institute treatment with supportive care, tocilizumab and/or corticosteroids, based on severity. The use of myeloid growth factors, particularly granulocyte macrophage-colony stimulating factor (GM-CSF), should be avoided during CRS. Withhold TALVEY until CRS resolves (see section **4.2 DOSE AND METHOD OF ADMINISTRATION – Dose modifications for adverse reactions**).

Neurologic toxicities, including Immune effector cell-associated neurotoxicity syndrome (ICANS)

Serious or life-threatening neurologic toxicities, including ICANS, have occurred following treatment with TALVEY.

ICANS, including fatal reactions, have occurred following treatment with TALVEY (see section **4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS)**. The onset of ICANS can be concurrent with CRS, following resolution of CRS, or in the absence of CRS. Clinical signs and symptoms of ICANS may include but are not limited to confusional state, depressed level of consciousness, disorientation, somnolence, lethargy and bradyphrenia.

Monitor patients for signs and symptoms of neurologic toxicities, including ICANS and treat promptly.

Counsel patients to seek medical attention should signs or symptoms of neurologic toxicities, including ICANS occur. A Patient Card to inform patients of neurologic toxicities including ICANS associated with TALVEY is available. The Patient Card should be kept with the patient at all times whilst on treatment.

At the first sign of neurologic toxicities, including ICANS, immediately evaluate the patient and provide supportive care based on severity; withhold or discontinue TALVEY based on severity and follow management recommendations (see section **4.2 DOSE AND METHOD OF ADMINISTRATION – Dose Modifications for adverse reactions**).

Oral toxicity

Oral toxicities, including dysgeusia, dry mouth, dysphagia, and stomatitis, may occur following treatment with TALVEY (see section **4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS)**. Seventy- eight percent (78%) of patients had Grade 1 or 2 events, with Grade 3 events occurring in 2% of patients.

Monitor patients for signs and symptoms of oral toxicity. Counsel patients to seek medical attention should signs or symptoms of oral toxicity occur and provide supportive care. Supportive care may include saliva stimulating agents, steroid mouth wash, or consultation with a nutritionist. Interrupt TALVEY or consider less frequent dosing (see section 4.2 DOSE AND METHOD OF ADMINISTRATION – Dose Modifications for adverse reactions).

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Over time, notable weight loss may occur (see section **4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS)**). Weight change should be monitored regularly during therapy. Clinically significant weight loss should be further evaluated.

Serious Infections

Serious infections, including life-threatening or fatal infections, have been reported in patients receiving TALVEY (see section 4.8 **ADVERSE EFFECTS** (UNDESIRABLE EFFECTS). Monitor patients for signs and symptoms of infection prior to and during treatment with TALVEY and treat appropriately. Administer prophylactic antimicrobials according to local guidelines. Withhold TALVEY as indicated (see section 4.2 DOSE AND METHOD OF ADMINISTRATION - Dosage modifications for adverse reactions).

Cytopenia

Treatment-emergent Grade 3 or 4 neutropenia and thrombocytopenia have been observed in patients who received TALVEY. A majority of events occurred during the first 8 to 10 weeks. Monitor complete blood counts during treatment and withhold TALVEY as warranted (see section **4.2 DOSE AND METHOD OF ADMINISTRATION - Dosage modifications for adverse reactions**).

Skin reactions

Rash, including maculo-papular rash, erythema, and erythematous rash, occurred in patients who received TALVEY (see section 4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS). Monitor rash progression for early intervention and treatment with corticosteroids. Rashes should be managed aggressively with topical steroids and early consideration of a short course of oral steroids to reduce the risk of rash progression.

Vaccines

Immune response to vaccines may be reduced when taking TALVEY. The safety of immunisation with live viral vaccines during or following TALVEY treatment has not been studied. Vaccination with live virus vaccines is not recommended for at least 4 weeks prior to the start of treatment, during treatment, and at least 4 weeks after treatment.

Use in the elderly (65 years of age and older)

Of the 339 patients treated with TALVEY in MonumenTAL-1, 36% were 65 to less than 75 years of age, and 17% were 75 years of age or older. No clinically important differences in safety or effectiveness were observed in patients 65 to 75 years of age compared to younger patients. There are limited clinical data with talquetamab in patients 75 years of age or over. No dose adjustment is required (see section **5.2 PHARMACOKINETIC PROPERTIES**).

Paediatric use (17 years of age and younger)

The safety and efficacy of TALVEY have not been established in paediatric patients.

Effects of laboratory tests

No data available.

4.5 INTERACTIONS WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTIONS

No drug interaction studies have been performed with TALVEY.

Talquetamab causes release of cytokines (see section **5.1 PHARMACODYNAMIC PROPERTIES - Pharmacodynamic** *Properties - Pharmacodynamic effects*) that may suppress activity of cytochrome P450 (CYP) enzymes, potentially resulting in increased exposure of CYP substrates. The highest risk of drug-drug interaction is expected to occur from initiation of talquetamab step-up phase up to 9 days after the first treatment dose and during and after CRS (see section **4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE - Cytokine release syndrome**). Monitor for toxicity or concentrations of drugs that are CYP (e.g., CYP2C9, CYP2C19, CYP3A4/5) substrates where minimal concentration changes may lead to serious adverse reactions. Adjust the dose of the

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concomitant CYP (e.g., CYP2C9, CYP2C19, CYP3A4/5) substrate drugs as needed.

4.6 FERTILITY, PREGNANCY AND LACTATION

Effects on fertility

There are no data on the effect of TALVEY on fertility. Effects of TALVEY on male and female fertility have not been evaluated in animal studies.

Use in pregnancy - Category C

There are no available data on the use of TALVEY in pregnant women or animal data to assess the risk of TALVEY in pregnancy. Human IgG is known to cross the placenta after the first trimester of pregnancy. Therefore, talquetamab has the potential to be transmitted from the mother to the developing fetus. The effects of TALVEY on the developing fetus are unknown. Based on its mechanism of action, T-cell activation with cytokine release and pro-inflammatory effects in a mother may potentially adversely affect a developing fetus. Pregnant women should be advised there may be risks to the fetus. TALVEY is not recommended for women who are pregnant or for women of childbearing potential not using contraception.

Pregnancy testing

Verify pregnancy status of females of child-bearing potential prior to initiating TALVEY.

Contraception

Advise females of reproductive potential to use effective contraception during treatment and for three months after the last dose of TALVEY.

Advise male patients with a female partner of reproductive potential to use effective contraception during treatment and for three months after the last dose of TALVEY.

Use in Lactation

It is not known whether talquetamab is excreted in human or animal milk, affects breastfed infants, or affects milk production. Because the potential for serious adverse reactions in breastfed infants is unknown for TALVEY, advise patients not to breastfeed during treatment with TALVEY and for at least 3 months after the last dose.

4.7 EFFECTS OF ABILITY TO DRIVE AND USE MACHINES

Due to the potential for ICANS, patients receiving TALVEY are at risk of depressed level of consciousness (see section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE). Advise patients to refrain from driving or operating heavy or potentially dangerous machinery during the step-up phase and for 48 hours after completion of the step-up phase (see section 4.2 DOSE AND METHOD OF ADMINISTRATION – Dosage – Adults (18 years of age and older) and in the event of new onset of any neurological symptoms, until symptoms resolve.

4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS)

Throughout this section, adverse reactions are presented. Adverse reactions are adverse events that were considered to be reasonably associated with the use of talquetamab based on the comprehensive assessment of the available adverse event information. A causal relationship with talquetamab cannot be reliably established in individual cases.

The safety data of TALVEY was evaluated in 339 adult patients with relapsed or refractory multiple myeloma, including patients exposed to prior T cell redirection therapy, treated with TALVEY at the recommended dosing regimen. The median duration of treatment was 7.4 (range: 0.0 to 32.9) months.

The most frequent adverse reactions (≥ 20%) were CRS, dysgeusia, hypogammaglobulinemia, nail disorder, musculoskeletal pain, anaemia, fatigue, skin disorder, weight decreased, rash, dry mouth, neutropenia, pyrexia, xerosis, thrombocytopenia, upper respiratory tract infection, lymphopenia,

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diarrhoea, dysphagia, pruritus, cough, decreased appetite, pain, and headache.

Serious adverse reactions reported in ≥ 2% of patients included CRS, pyrexia, ICANS, sepsis, COVID-19, bacterial infection, pneumonia, viral infection, neutropenia, and pain.

The most frequent adverse reactions leading to treatment discontinuation were ICANS (1.1%) and weight decreased (0.9%).

Adverse reactions observed during clinical studies are listed below by frequency category. Frequency categories are defined as follows: very common ($\geq 1/10$); common ($\geq 1/100$) to < 1/10); uncommon ($\geq 1/1,000$) to < 1/100); rare ($\geq 1/10,000$) to < 1/1,000); very rare (< 1/10,000) and not known (frequency cannot be estimated from the available data). Within each frequency grouping, adverse reactions are presented in order of decreasing frequency.

Table 11 summarises adverse reactions reported in patients who received TALVEY.

Table 11: Adverse reactions in patients with multiple myeloma treated with TALVEY in MonumenTAL-1 (N=339)

| System organ class | Frequency | Any grade | Grade 3 or 4 |
|---|-------------|-------------|--------------|
| Adverse reaction | category | (%) | (%) |
| Infections and infestations | | | |
| Upper respiratory tract infection ¹ | Very common | 98 (28.9%) | 7 (2.1%) |
| COVID-19 ^{2#} | Very common | 63 (18.6%) | 10 (2.9%) |
| Bacterial infection ³ | Very common | 40 (11.8%) | 11 (3.2%) |
| Fungal infecion ⁴ | Very common | 39 (11.5%) | 1 (0.3%) |
| Pneumonia ⁵ | Common | 23 (6.8%) | 11 (3.2%) |
| Viral infection ⁶ | Common | 23 (6.8%) | 6 (1.8%) |
| Sepsis ^{7#} | Common | 15 (4.4%) | 14 (4.1%) |
| Blood and lymphatic system disorders | | | |
| Anaemia* | Very common | 158 (46.6%) | 99 (29.2%) |
| Neutropenia [*] | Very common | 120 (35.4%) | 104 (30.7%) |
| Thrombocytopenia | Very common | 101 (29.8%) | 71 (20.9%) |
| Lymphopenia | Very common | 91 (26.8%) | 83 (24.5%) |
| Leukopenia | Very common | 62 (18.3%) | 38 (11.2%) |
| Immune system disorders | | · | |
| Cytokine release syndrome | Very common | 260 (76.7%) | 5 (1.5%) |
| Hypogammaglobulinaemia8 | Very common | 227 (67.0%) | 0 |
| Metabolism and nutrition disorders | | | • |
| Decreased appetite | Very common | 76 (22.4%) | 4 (1.2%) |
| Hypokalaemia | Very common | 55 (16.2%) | 12 (3.5%) |
| Hypophosphatemia ⁹ | Very common | 49 (14.5%) | 21 (6.2%) |
| Nervous system disorders | • | , , | |
| Headache ¹⁰ | Very common | 69 (20.4%) | 2 (0.6%) |
| Sensory neuropathy ¹¹ | Very common | 58 (17.1%) | 0 |
| Motor dysfunction ¹² | Very common | 43 (12.7%) | 2 (0.6%) |
| Dizziness* | Very common | 42 (12.4%) | 8 (2.4%) |
| Encephalopathy ¹³ | Very common | 36 (10.6%) | 0 |
| Immune effector cell-associated neurotoxicity | - | · | |
| syndrome* | Common | 26 (9.8%) | 6 (2.3%) |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough ¹⁴ | Very common | 78 (23.0%) | 0 |
| Oral pain ¹⁵ | Very common | 42 (12.4%) | 0 |
| Dyspnoea *# | Very common | 39 (11.5%) | 5 (1.5%) |
| Gastrointestinal disorders | • | , , | |
| Dysgeusia ¹⁶ | Very common | 245 (72.3%) | 0 |
| Dry mouth | Very common | 122 (36.0%) | 0 |
| Diarrhoea | Very common | 84 (24.8%) | 4 (1.2%) |
| Dysphagia | Very common | 82 (24.2%) | 3 (0.9%) |
| Stomatitis ¹⁷ | Very common | 67 (19.8%) | 4 (1.2%) |
| Nausea | Very common | 64 (18.9%) | 0 |
| Constipation | Very common | 61 (18.0%) | 0 |

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| System organ class | Frequency | Any grade | Grade 3 or 4 |
|---|-------------|-------------|--------------|
| Adverse reaction | category | (%) | (%) |
| Abdominal pain* | Very common | 35 (10.3%) | 1 (0.3%) |
| Vomiting | Very common | 34 (10.0%) | 2 (0.6%) |
| Skin and subcutaneous tissue disorders | | | |
| Nail disorder ¹⁸ | Very common | 191 (56.3%) | 0 |
| Skin disorder ¹⁹ | Very common | 145 (42.8%) | 0 |
| Rash ²⁰ | Very common | 132 (38.9%) | 12 (3.5%) |
| Xerosis ²¹ | Very common | 109 (32.2%) | 0 |
| Pruritus | Very common | 79 (23.3%) | 1 (0.3%) |
| Musculoskeletal and connective tissue dis | orders | | |
| Musculoskeletal pain * | Very common | 164 (48.4%) | 12 (3.5%) |
| General disorders and administration site | conditions | | |
| Fatigue ²² | Very common | 147 (43.4%) | 12 (3.5%) |
| Pyrexia ²³ | Very common | 113 (33.3%) | 6 (1.8%) |
| Pain* | Very common | 76 (22.4%) | 7 (2.1%) |
| Oedema ²⁴ | Very common | 59 (17.4%) | 0 |
| Injection site reaction ²⁵ | Very common | 45 (13.3%) | 0 |
| Investigations | | | |
| Weight decreased | Very common | 134 (39.5%) | 11 (3.2%) |
| Transaminase elevation ²⁶ | Very common | 48 (14.2%) | 12 (3.5%) |

Adverse events are coded using MedDRA Version 25.0.

Contains fatal outcome

Note: The output includes the diagnosis of CRS and ICANS; the symptoms of CRS or ICANS are excluded.

Note: ICANS were only collected for Phase 2. Denominator is based on number of patients in Phase 2 (N=265).

- Upper respiratory tract infection: bronchiolitis, bronchitis, nasopharyngitis, pharyngitis, respiratory tract infection, respiratory tract infection bacterial, rhinitis, rhinovirus infection, sinusitis, tonsillitis, upper respiratory tract infection and viral upper respiratory tract infection.
- COVID-19: asymptomatic COVID-19, COVID-19, COVID-19 pneumonia, coronavirus infection and multisystem inflammatory syndrome.
- Bacterial infection: campylobacter infection, carbuncle, cellulitis, citrobacter infection, clostridium difficile colitis, clostridium difficile infection, cystitis escherichia, cystitis klebsiella, diverticulitis, escherichia pyelonephritis, folliculitis, gastroenteritis escherichia coli, helicobacter gastritis, human ehrlichiosis, impetigo, klebsiella sepsis, moraxella infection, otitis media acute, pitted keratolysis, pseudomonal bacteremia, pyuria, relapsing fever, renal abscess, skin infection, staphylococcal infection, tooth abscess, tooth infection, urinary tract infection enterococcal and urinary tract infection pseudomonal.
- ⁴ Fungal infection: body tinea, candida infection, ear infection fungal, fungal foot infection, fungal infection, fungal skin infection, genital candidiasis, esophageal candidiasis, onychomycosis, oral candidiasis, oral fungal infection, oropharyngeal candidiasis, tinea pedis, vulvovaginal candidiasis and vulvovaginal mycotic infection.
- ⁵ Pneumonia: pneumonia and pneumonia streptococcal.
- Wiral infection: conjunctivitis viral, disseminated varicella zoster virus infection, gastroenteritis viral, HCoV-HKU1 infection, herpes ophthalmic, influenza, metapneumovirus infection, norovirus infection, parainfluenza virus infection, respiratory syncytial virus bronchiolitis, respiratory syncytial virus infection, retinitis viral and viral infection.
- Sepsis: bacteremia, enterobacter bacteremia, escherichia sepsis, fungal sepsis, pneumococcal sepsis, salmonella sepsis, sepsis, septic shock, staphylococcal bacteremia, staphylococcal sepsis and streptococcal bacteremia.
- 8 Hypogammaglobulinemia: hypogammaglobulinemia and/or subjects with laboratory IgG levels below 500mg/dL following treatment with talquetamab.
- 9 Hypophosphatemia: blood phosphorus decreased and hypophosphatemia.
- Headache: headache, migraine, procedural headache and tension headache.
- Sensory neuropathy: dysesthesia, hyperesthesia, hypoesthesia, hypoesthesia oral, immune-mediated neuropathy, neuralgia, neuropathy peripheral, paresthesia, peripheral sensory neuropathy, polyneuropathy, sciatica and vestibular neuronitis.
- Motor dysfunction: dysarthria, dysgraphia, dysmetria, dysphonia, gait disturbance, muscle atrophy, muscle spasms, muscular weakness and tremor.
- Encephalopathy: agitation, amnesia, aphasia, bradyphrenia, confusional state, delirium, disorientation, disturbance in attention, encephalopathy, hallucination, lethargy, memory impairment, restlessness, sleep disorder and somnolence.
- Cough: cough, productive cough and upper-airway cough syndrome.
- 15 Oral pain: oropharyngeal pain
- ¹⁶ Dysgeusia: ageusia, dysgeusia, hypogeusia and taste disorder.
- Stomatitis: cheilitis, glossitis, glossodynia, mouth ulceration, oral discomfort, oral mucosal erythema, oral pain, stomatitis, swollen tongue, tongue discomfort, tongue erythema, tongue oedema and tongue ulceration.
- Nail disorder: koilonychia, nail bed disorder, nail cuticle fissure, nail discoloration, nail disorder, nail dystrophy, nail hypertrophy, nail pitting, nail ridging, nail toxicity, onychoclasis, onycholysis and onychomadesis.
- 19 Skin disorder: palmar-plantar erythrodysesthesia syndrome, palmoplantar keratoderma, skin discoloration, skin exfoliation and skin fissures.

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^{*} Based on grouped term

- Rash: dermatitis, dermatitis acneiform, dermatitis contact, dermatitis exfoliative, dermatitis exfoliative generalised, erythema, exfoliative rash, rash, rash erythematous, rash macular, rash maculo-papular, rash papular, rash pruritic, rash pustular, rash vesicular and stasis dermatitis.
- 21 Xerosis: dry eye, dry skin and xerosis.
- ²² Fatigue: asthenia, fatigue, malaise and muscle fatigue.
- ²³ Pyrexia: pyrexia and tumor associated fever.
- Oedema: face oedema, fluid retention, gingival swelling, hypervolemia, joint swelling, lip swelling, oedema, oedema peripheral, periorbital oedema, peripheral swelling and swelling.
- ²⁵ Injection site reaction: injection site discomfort, injection site erythema, injection site haemorrhage, injection site inflammation, injection site irritation, injection site plaque, injection site pruritus, injection site rash and injection site reaction
- 26 Transaminase elevation: alanine aminotransferase increased and aspartate aminotransferase increased.

Description of selected adverse reactions

Cytokine release syndrome

In MonumenTAL-1 (N=339), CRS occurred in 77% of patients. Most events were Grade 1 or 2, with Grade 3 events occurring in 1.5% of patients. Thirty one percent (31%) of patients experienced more than one CRS event. Most events occurred during the step-up phase following the 0.01 mg/kg dose (29%), the 0.06 mg/kg dose (44%), the 0.3 mg/kg dose (for patients who received biweekly [every 2 weeks] dosing; 33%), or the initial treatment dose (0.4 mg/kg [30%] or 0.8 mg/kg [12%]). Less than 4% of CRS events occurred from Week 5 onward; all events were Grade 1. The median time to onset of CRS was 27 hours from the last dose, 91% of events occurred within 48 hours from the last dose, and the median duration was 17 hours. Tocilizumab and corticosteroids were used to treat 39% and 5% of CRS events, respectively.

Neurologic toxicities, including Immune effector cell-associated neurotoxicity syndrome (ICANS)

In MonumenTAL-1 (N=339), neurologic toxicities were reported in 29% of patients receiving TALVEY. Neurologic toxicity events were Grade 1 (17%), Grade 2 (10%), Grade 3 (2.4%) or Grade 4 (0.3%). The most frequently reported neurologic toxicity event was headache (9%).

In MonumenTAL-1 (N=265), ICANS occurred in 10% (n=26) of patients. Most events were Grade 1 or 2, with Grade 3 and 4 events occurring in 2.3% of patients. The most frequent clinical manifestation of ICANS reported were confusional state (4.2%), disorientation (1.9%), and somnolence (1.9%). Sixty-eight percent (68%) were concurrent with CRS (during or within 7 days of CRS resolution). Three percent (3%) of patients experienced more than one ICANS event. Most patients experienced ICANS during the step-up phase following the 0.01 mg/kg dose, the 0.06 mg/kg dose, or the initial treatment dose (0.4 mg/kg and 0.8 mg/kg) (3% each). The median time to onset was 28 hours from the last dose, 68% of events started within 48 hours from the last dose, and the median duration was 9 hours.

In addition, one fatal ICANS event was reported in MonumenTAL-1.

Serious infections

In MonumenTAL-1 (N=339), Grade 3 or Grade 4 infections occurred in 19% of patients, and fatal infections occurred in 1.5% of patients.

Skin reactions

In MonumenTAL-1 (N=339), the majority of rash cases were Grade 1 or 2, with Grade 3 events occurring in 3.5% of patients. The median time to onset for rash was 22 days.

Reporting suspected adverse effects

Reporting suspected adverse reactions after registration of the medicinal product is important. It allows continued monitoring of the benefit-risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions at www.tga.gov.au/reporting-problems.

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4.9 OVERDOSE

Symptoms and signs

The maximum tolerated dose of talquetamab has not been determined. In clinical trials, doses of up to 1.2 mg/kg once every 2 weeks and 1.6 mg/kg monthly have been administered.

Treatment

In the event of an overdose, the patient should be monitored for any signs or symptoms of adverse reactions and appropriate symptomatic treatment should be instituted immediately.

For information on the management of overdose, contact the Poisons Information Centre on 131126 (Australia).

5. PHARMACOLOGICAL PROPERTIES

5.1 PHARMACODYNAMIC PROPERTIES

Pharmacotherapeutic group: Other monoclonal antibodies and antibody drug conjugates, ATC code: L01FX29

Within the first month of treatment with talquetamab, activation and redistribution of T cells and induction of serum cytokines were observed.

Mechanism of Action

Talquetamab (also known as JNJ-64407564) is a humanised immunoglobulin G4 proline, alanine, alanine (IgG4 PAA) bispecific antibody directed against GPRC5D on multiple myeloma cells and the CD3 receptor on T Cells.

Talquetamab promotes enhanced T cell-mediated cytotoxicity through recruitment of CD3-expressing T cells to GPRC5D-expressing cells. This leads to the activation of T cells and induces subsequent lysis of GPRC5D-expressing cells mediated by secreted perforin and various granzymes stored in the secretory vesicles of cytotoxic T cells. Based on the expression of GPRC5D on plasma cells with minimal to no expression detected on B cells and B cell precursors, talquetamab targets multiple myeloma cells particularly, reducing potential off-target effects toward other cell lineages. In addition to non-malignant plasma cells, GPRC5D is expressed on healthy tissues such as epithelial cells in keratinised tissues of the skin and tongue.

<u>Immunogenicity</u>

In MonumenTAL-1, 260 patients treated with subcutaneous talquetamab monotherapy at 0.4 mg/kg weekly or 0.8 mg/kg biweekly (every 2 weeks) were evaluated for antibodies to talquetamab. Following treatment of 0.4 mg/kg weekly or 0.8 mg/kg biweekly (every 2 weeks), 64 of 260 patients (24.6%) developed anti-talquetamab antibodies. None of these participants were positive for neutralizing antibodies to talquetamab. There was no identified clinically significant effect of anti-talquetamab antibodies on the pharmacokinetics, efficacy, or safety (e.g., CRS, systemic administration-related reaction, and injection site reaction).

Clinical trials

The efficacy of TALVEY monotherapy was evaluated in patients with relapsed or refractory multiple myeloma in a single-arm, open-label, multicentre study, MonumenTAL-1 (MMY1001). The study included patients who had previously received at least three prior therapies, including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 monoclonal antibody. The study included patients who received prior T cell redirection therapy (N=51). Patients received TALVEY 0.4 mg/kg subcutaneously weekly, following two step-up doses (0.01 and 0.06 mg/kg) in the first week of therapy, or TALVEY 0.8 mg/kg subcutaneously biweekly (every 2 weeks), following three step-up doses (0.01, 0.06 and 0.3 mg/kg), until disease progression or unacceptable toxicity. Patients were

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hospitalised for monitoring for at least 48 hours after each TALVEY dose during the step-up phase.

Of 117 patients treated with TALVEY 0.4 mg/kg weekly who were not exposed to prior T cell redirection therapy, the median age was 67 (range: 46 to 86) years, 54% were male, 92% were White, and 7% were Black or African American. Patients had received a median of 5 (range: 4 to 13) prior therapies, and 79% of patients had received prior autologous stem cell transplantation (ASCT). Ninety-three percent (93%) of patients were refractory to their last therapy and 76% were refractory to a proteasome inhibitor, immunomodulatory agent, and anti-CD38 antibody. Of the 108 patients for whom baseline cytogenetic data were available, high-risk cytogenetic factors (presence of t(4:14), t(14:16), and/or del(17p)) were present in 31% of patients.

Of 113 patients treated with TALVEY 0.8 mg/kg biweekly (every 2 weeks) who were not exposed to prior T cell redirection therapy, the median age was 67 (range: 38 to 84) years, 59% were male, 85% were White, and 7% were Black or African American. Patients had received a median of 6 (range: 4 to 17) prior therapies, and 80% of patients had received prior autologous stem cell transplantation (ASCT). Ninety-five percent (95%) of patients were refractory to their last therapy and 73% were refractory to a proteasome inhibitor, immunomodulatory agent, and anti-CD38 antibody. Of the 99 patients for whom baseline cytogenetic data were available, high-risk cytogenetic factors (presence of t(4:14), t(14:16), and/or del(17p)) were present in 26% of patients.

Efficacy results were based on overall response rate assessed by an Independent Review Committee using IMWG criteria.

The efficacy results from 117 patients treated with TALVEY 0.4 mg/kg weekly who were not exposed to prior T cell redirection therapy and who had received at least 4 prior therapies are presented in Table 12.

Table 12: Efficacy results for MonumenTAL-1 (MMY1001) in patients who had at least 4 prior therapies receiving 0.4 mg/kg weekly TALVEY

| | 0.4 mg/kg weekly (N= 117) |
|--|------------------------------|
| Overall response rate (ORR=sCR+CR+VGPR+PR) | 84 (71.8 %) |
| 95% CI (%) | (62.7, 79.7) |
| Stringent complete response (sCR) | 25.6 % |
| Complete response (CR) | 9.4 % |
| Very good partial response (VGPR) | 22.2 % |
| Partial response (PR) | 14.5 % |
| Duration of response (DOR) | · |
| Number of responders | 84 |
| Median DOR (95% CI) (months) | 10.8 (7.6, 20.2) |
| Patients with DOR ≥ 6 months | 69.4 % |
| Patients with DOR ≥ 12 months | 49.3 % |
| Time to first response ^a | · |
| Number of responders | 84 |
| Median (range) (months) | 1.15 (0.2; 10.9) |
| MRD negativity rate ^b | |
| MRD negativity rate in all treated patients, n (%) | 38 (32.5 %) |
| 95% CI (%) | (24.1, 41.8) |
| MRD negativity rate in patients achieving CR or sCR ^c | |
| Number of patients with CR or better | N= 41 |
| MRD negativity rate, n (%) | 23 (56.1%) |
| 95% CI (%) | (39.7, 71.5) |

CI=confidence interval; MRD=minimal residual disease; NE=not estimable

Median duration of follow-up = 18.7 months.

The efficacy results from 113 patients treated with TALVEY 0.8 mg/kg weekly who were not exposed to prior T cell redirection therapy and who had received at least 4 prior therapies are presented in

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^a Response PR or better

^b MRD-negativity rate is defined as the proportion of participants who achieved MRD negative status (at 10⁻⁵) at any timepoint after initial dose and prior to progressive disease (PD) or subsequent anti-myeloma therapy.

^d Only MRD assessments (10⁻⁵ testing threshold) within 3 months of achieving CR/sCR until death/progression/subsequent therapy (exclusive) are considered.

Table 13.

Table 13: Efficacy results for MonumenTAL-1 (MMY1001) in patients who had at least 4 prior therapies receiving 0.8 mg/kg biweekly (every 2 Weeks) TALVEY

| | 0.8 mg/kg biweekly (every 2 weeks) (N= 113) |
|--|--|
| Overall response rate (ORR=sCR+CR+VGPR+PR) | 78 (69.0 %) |
| 95% CI (%) | (59.6, 77.4) |
| Stringent complete response (sCR) | 29.2 % |
| Complete response (CR) | 7.1 % |
| Very good partial response (VGPR) | 23.9 % |
| Partial response (PR) | 8.8 % |
| Duration of response (DOR) | • |
| Number of responders | 78 |
| Median DOR (95% CI) (months) | NE (13.0, NE) |
| Patients with DOR ≥ 6 months | 87.0 % |
| Patients with DOR ≥ 9 months | 79.0 % |
| Time to first response ^a | |
| Number of responders | 78 |
| Median (range) (months) | 1.25 (0.2; 9.2) |
| MRD negativity rate ^b | |
| MRD negativity rate in all treated patients, n (%) | 30 (26.5%) |
| 95% CI (%) | (18.7, 35.7) |
| MRD negativity rate ^c in patients achieving CR or sCR | |
| Number of patients with CR or better | N= 41 |
| MRD negativity rate, n (%) | 17 (41.5 %) |
| 95% CI (%) | (26.3, 57.9) |

CI=confidence interval; MRD=minimal residual disease; NE=not estimable

Median duration of follow-up = 12.3 months.

Overall response rate (ORR) results were consistent across pre-specified subgroups, including number of prior lines of therapy, refractoriness to prior therapy, and cytogenetic risk at baseline.

At approximately week 29, there were 54 patients who completed the EORTC QLQ-C30 (European Organization for Research and Treatment of Cancer Quality of Life Questionnaire Core-30 Item) for the 0.4 mg/kg weekly group and 60 patients in the 0.8 mg/kg biweekly (every 2 weeks) group. Patients reported meaningful improvement from baseline in global health status, increased physical functioning and ability to participate in social roles and activities, decreased fatigue, and meaningful reductions in pain with 0.4 mg/kg weekly of TALVEY. With 0.8 mg/kg biweekly of TALVEY patients reported improvements in global health status, physical functioning, fatigue and pain and preserved ability to participate in social roles and activities.

MonumenTAL-1 also included 51 patients who were exposed to prior T cell redirection therapy and who had previously received at least three prior therapies, including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 monoclonal antibody. Patients received TALVEY 0.4 mg/kg subcutaneously once a week, following 2 step-up doses (0.01 and 0.06 mg/kg), or 0.8 mg/kg Q2W, following 3 step-up doses (0.01, 0.06, and 0.3 mg/kg), until disease progression or unacceptable toxicity. The median age was 61 (range: 38 to 78) years, 61% were male, 92% were White, and 6% were Black or African-American. Patients had received a median of 6 (range: 3 to 15) prior therapies. Prior T cell redirection therapy was CAR-T cell therapy for 75% of patients and bispecific antibody treatment for 31%. With a median duration of follow-up of 15.3 months, ORR per IRC assessment was 65%.

LocoMMotion and MoMMent analysis

A patient-level, pooled analysis of outcomes of patients from the LocoMMotion and MoMMent

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a Response PR or better

b MRD-negativity rate is defined as the proportion of participants who achieved MRD negative status (at 10⁻⁵) at any timepoint after initial dose and prior to progressive disease (PD) or subsequent anti-myeloma therapy.

^c Only MRD assessments (10⁻⁵ testing threshold) within 3 months of achieving CR/sCR until death/progression/subsequent therapy (exclusive) are considered.

studies (N=130) with relapsed or refractory multiple myeloma was conducted to provide contemporaneous context for interpreting the efficacy results reported in MonumenTAL-1. The analysis included patients who had received at least 4 prior therapies, including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 monoclonal antibody. Patients received available treatments, and response and survival were evaluated. In a weighted analysis against patients with at least 4 prior therapies receiving talquetamab 0.4 mg/kg weekly, the ORR in LocoMMotion and MoMMent patients receiving available therapy was 28.2%, the median duration of response (DOR) was 7.7 months, the median progression-free survival (PFS) was 4.1 months, and the median overall survival (OS) was 9.2 months. In a similar weighted analysis against patients with at least 4 prior therapies receiving talquetamab 0.8 mg/kg, the ORR in LocoMMotion and MoMMent patients receiving available therapy was 29.8%, the median DOR was 11.1 months, the median PFS was 4.4 months, and the median OS was 10.2 months.

The adjusted comparative analysis of outcomes from LocoMMotion and MoMMent indicated that patients receiving talquetamab 0.4 mg/kg weekly or 0.8 mg/kg biweekly (every 2 weeks) in MonumenTAL-1 had better outcomes than patients receiving available treatments, as measured by ORR, DOR, PFS, and OS.

5.2 PHARMACOKINETIC PROPERTIES

0.4 mg/kg Weekly

Talquetamab exhibited approximately dose-proportional pharmacokinetics following subcutaneous administration across a dose ranging from 0.005 to 0.8 mg/kg weekly (0.0125 to 2 times the recommended 0.4 mg/kg weekly dose). The mean accumulation ratio between the 1st and 7th weekly dose of talquetamab 0.4 mg/kg was 3.9 and 4.5-fold for C_{max} and AUC_{tau} , respectively.

Pharmacokinetic parameters of talquetamab following the 1st and 7th recommended weekly dose of 0.4 mg/kg are shown in Table 14.

Table 14: Pharmacokinetic parameters of talquetamab following the first and seventh recommended 0.4 mg/kg weekly dose in patients with relapsed or refractory multiple myeloma in MonumenTAL-1

| Pharmacokinetic parameters | 1 st dose of 0.4 mg/kg | 7 th dose of 0.4 mg/kg |
|------------------------------|-----------------------------------|-----------------------------------|
| T _{max} (days) | 2.93 (0.98 - 7.75) (n=21) | 2.01 (0.94 - 5.97) (n=13) |
| C _{max} (ng/mL) | 1,568 ± 1,185 (n=21) | 3,799 ± 2,411 (n=13) |
| C _{trough} (ng/mL) | 178 ± 124 (n=19) | 2,548 ± 1,308 (n=13) |
| AUC _{tau} (ng·h/mL) | 178,101 ± 130,802 (n=17) | 607,297 ± 371,399 (n=10) |

 T_{max} = Time to reach the C_{max} ; C_{max} = Maximum observed serum talquetamab concentration; C_{trough} = Observed serum talquetamab concentration prior to next dose; AUC_{tau} = Area under the concentration-time curve over the weekly dosing interval. Data are presented as mean \pm standard deviation, except for T_{max} which is presented as median (minimum-maximum).

0.8 mg/kg Biweekly (every two weeks)

Talquetamab exhibited approximately dose-proportional pharmacokinetics following subcutaneous administration across a dose ranging from 0.8 mg/kg to 1.2 mg/kg biweekly (1.0 to 1.5 times the recommended 0.8 mg/kg biweekly dose). The mean accumulation ratio between the 1st and 5th biweekly dose of talquetamab 0.8 mg/kg was 2.3- and 2.2-fold for C_{max} and AUC_{tau}, respectively.

Pharmacokinetic parameters of talquetamab following the 1st and 5th recommended biweekly (every 2 weeks) dose of 0.8 mg/kg are shown in Table 15.

Table 15: Pharmacokinetic parameters of talquetamab following the first and fifth recommended 0.8 mg/kg biweekly (every 2 weeks) dose in patients with relapsed or refractory multiple myeloma in MonumenTAL-1

| Pharmacokinetic parameters | 1 st dose of 0.8 mg/kg | 5 th dose of 0.8 mg/kg |
|----------------------------|-----------------------------------|-----------------------------------|
| T _{max} (days) | 2.83 (1.68 - 13.98) | 2.85 (0.96 - 7.82) |
| | (n=33) | (n=19) |

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| C _{max} (ng/mL) | 2,507 ± 1,568 | 4,161 ± 2,021 |
|------------------------------|-------------------|---------------------|
| | (n=33) | (n=19) |
| C _{trough} (ng/mL) | 597 ± 437 | 1,831 ± 841 |
| | (n=32) | (n=17) |
| AUC _{tau} (ng·h/mL) | 675,764 ± 399,680 | 1,021,059 ± 383,417 |
| | (n=28) | (n=17) |

 T_{max} = Time to reach the C_{max} ; C_{max} = Maximum observed serum talquetamab concentration; C_{trough} = Observed serum talquetamab concentration prior to next dose; AUC_{tau} = Area under the concentration-time curve over the Q2W dosing interval. Data are presented as mean \pm standard deviation, except for T_{max} which is presented as median (minimum-maximum).

Absorption

Based on the population pharmacokinetic model, the typical value of the bioavailability of talquetamab was 62% when administered subcutaneously relative to intravenous dosing.

At 0.4 mg/kg weekly dose regimen, the median (range) T_{max} of talquetamab after the 1st and 7th treatment doses were 3 (1 to 8) days and 2 (1 to 6) days, respectively.

At 0.8 mg/kg biweekly (every 2 weeks) dose regimen, the median (range) T_{max} of talquetamab after the 1st and 5th treatment doses were 3 (2 to 14) days and 3 (1 to 8) days, respectively.

Distribution

Based on the population pharmacokinetic model, the typical value of the volume of distribution was 4.3 L (22% CV [coefficient of variation]) for the central compartment, and 5.8 L (83% CV) for the peripheral compartment.

Excretion

Talquetamab exhibited both linear time-independent and time-dependent clearance. Based on the population pharmacokinetic model, the typical total clearance is 2.08 L/day at initial treatment and 1.06 L/day at steady state for participants with IgG subtype of myeloma and ISS stage I. The time-dependent clearance accounted for 48.8% of total clearance at initial treatment and then decreased exponentially to < 5% at around Week 16. The concentration-time profile at Week 16 would reach 90% of steady-state concentration for both 0.4 mg/kg weekly and 0.8 mg/kg biweekly regimens. The median terminal phase half-life based on the post hoc parameters of all SC population (N=392) was 7.56 days at initial treatment, and 12.2 days at steady state.

Special Populations

Renal Impairment

No formal studies of talquetamab in patients with renal impairment have been conducted.

Results of population pharmacokinetic analyses indicate that mild (60 mL/min/1.73 m 2 ≤ estimated glomerular filtration rate (eGFR) <90 mL/min/1.73 m 2) or moderate (30 mL/min/1.73 m 2) renal impairment did not significantly influence the pharmacokinetics of talquetamab. No data is available in patients with severe renal impairment.

Hepatic Impairment

No formal studies of talquetamab in patients with hepatic impairment have been conducted.

Results of population pharmacokinetic analyses indicate that mild hepatic impairment (total bilirubin > 1 to 1.5 times upper limit of normal [ULN] and any aspartate aminotransferase [AST], or total bilirubin ≤ ULN and AST > ULN) and moderate hepatic impairment (total bilirubin 1.5 to 3 times ULN and any AST > ULN) did not significantly influence the pharmacokinetics of talquetamab. No data is available in patients with severe hepatic impairment.

Paediatrics (17 years of age and younger)

The pharmacokinetics of TALVEY in paediatric patients aged 17 years and younger have not been investigated.

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Elderly (65 years of age and older)

Results of population pharmacokinetic analyses indicate that age (33 to 86 years) did not influence the pharmacokinetics of talquetamab.

5.3 PRECLINICAL SAFETY DATA

Genotoxicity

No genotoxicity studies have been performed to assess the genotoxic potential of talquetamab.

Carcinogenicity

No carcinogenicity studies have been performed to assess the carcinogenic potential of talquetamab.

6. PHARMACEUTICAL PARTICULARS

6.1 LIST OF EXCIPIENTS

disodium edetate (EDTA) glacial acetic acid polysorbate 20 sodium acetate trihydrate sucrose water for injections

6.2 INCOMPATIBILITIES

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

6.3 SHELF LIFE

In Australia, information on the shelf life can be found on the public summary of the Australian Register of Therapeutic Goods (ARTG). The expiry date can be found on the packaging.

Prepared syringe:

The prepared syringes should be administered immediately. If immediate administration is not possible, store the TALVEY solution for up to 24 hours refrigerated at 2°C to 8°C followed by up to 24 hours at ambient temperature of 15°C to 30°C. Discard if stored for more than 24 hours refrigerated or more than 24 hours of being at ambient temperature. If stored in the refrigerator, allow the solution to come to ambient temperature before administration.

6.4 SPECIAL PRECAUTIONS FOR STORAGE

Store at 2°C to 8°C. Refrigerate, do not freeze.

Store in the original carton in order to protect from light.

6.5 NATURE AND CONTENTS OF CONTAINER

- 1.5 mL solution for injection in a Type 1 glass vial with an elastomeric stopper and a flip-off seal containing 3 mg of sterile talguetamab (2 mg/mL). Pack size of 1 vial.
- 1.0 mL solution for injection in a Type 1 glass vial with an elastomeric stopper and a flip-off seal containing 40 mg of sterile talquetamab (40 mg/mL). Pack size of 1 vial.

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6.6 SPECIAL PRECAUTIONS FOR DISPOSAL

In Australia, any unused medicine or waste material should be disposed of in accordance with local requirements.

6.7 PHYSICOCHEMICAL PROPERTIES

CAS number

2226212-40-2

7. MEDICINE SCHEDULE (POISON STANDARD)

S4 - Prescription Only Medicine

8. SPONSOR

Janssen-Cilag Pty Ltd 1-5 Khartoum Road Macquarie Park NSW 2113 AUSTRALIA

Telephone: 1800 226 334

NZ Office:

Auckland, NEW ZEALAND Telephone: 0800 800 806

9. DATE OF FIRST APPROVAL

XXXX

10. DATE OF REVISION

N/A

Summary table of changes

| Section changed | Summary of new information |
|-----------------|----------------------------|
| N/A | N/A |

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