

11.12 PEMBROLIZUMAB

Solution concentrate for I.V. infusion 100 mg in 4 mL,

Keytruda[®],

Merck Sharp & Dohme (Australia) Pty Ltd

1 Purpose of Submission

- 1.1 To consider an updated proposal from Merck Sharp & Dohme for a multi-indication (broad) listing for pembrolizumab in advanced or metastatic cancers.

2 Background

Previous PBAC considerations

- 2.1 The PBAC's most recent consideration of a multi-indication listing for pembrolizumab was at the July 2025 meeting where it did not recommend the listing.
- 2.2 The PBAC also considered a proposal for a broad listing for nivolumab and ipilimumab at its July 2025 and September 2025 meetings. It deferred the July proposal and recommended the listing based on the proposal provided to the September 2025 Intracycle meeting.
- 2.3 The PBAC had also previously considered broad listings for PD-(L)1 inhibitors at the September 2024 and December 2023 meetings.

3 Outline of October 2025 Proposal

- 3.1 This revised proposal (October 2025 Proposal) presents a simplified Risk Sharing Arrangement (RSA) structure compared to the July 2025 proposal, however it is based on the same general approach. The proposal:
- applies a weighted price for indications PBS-listed and two indications recommended but not yet implemented, based on existing/recommended prices and forecast script volumes.
 - Sets the first cap (SC1) in the proposed RSA at the forecast utilisation of the existing PBS listed indications after which a rebate is applied to account for use in the extended circumstances. The sponsor has consolidated the rebates for different circumstances of use (extended indications, retreatment, rare cancers, etc.) into a single discount of █% for use beyond SC1.
 - Sets a second cap (SC2) at the total forecast utilisation and proposed a █% rebate for utilisation beyond this.

Public Summary Document – December 2025 PBAC Meeting

- 3.2 The proposal included updated utilisation and modelling based on the PBAC’s advice provided in July 2025. The Secretariat has provided comments on the revised modelling in Section 7.
- 3.3 The sponsor provided the following table (Table 1) that outlines its key changes between the July 2025 and October 2025 proposals:

Table 1: Key changes between the July 2025 and October 2025 proposals

| Component | Not recommended (July 2025) | Resubmission (Nov 2025) | Key changes |
|-----------------------------|--|--|---|
| Scope of indications | All current and future TGA indications in the advanced or metastatic setting | All unresectable advanced and metastatic cancers except tumour types that are known to be unresponsive to a PD-1 inhibitor | The proposed restriction does not specify pembrolizumab’s TGA approved indications, thereby enabling access for some patients with ultra-rare tissue types which are unlikely to have a registered TGA indication. |
| Pricing structure | A single weighted, effective AEMP. A PVA was proposed with increasing rebates over 3 or 4 tiers ¹ | A single weighted, effective AEMP. A PVA is proposed with a rebate applied after reaching the first tier cap (i.e. 2 tiers in total) | The single weighted, effective AEMP is now based on both existing listed indications and two indications that have been recommended by the PBAC but not yet implemented [July 2025 PSD 6.15, par 10.10] The PVA structure has been simplified to reflect the PBAC’s advice that a simplified RSA structure with a consolidated discount beyond Tier 1 would be preferable [July 2025 PSD 6.15, par 10.13] |
| Prices (AEMP) | Tier 1: \$ Tier 2: \$ Tier 3: \$ Tier 4: \$ Nb. Represents prices offered in the pre-PBAC response | Tier 1: \$ Tier 2: \$ | The lower Tier 1 price reflects the inclusion of cSCC and 1L Oesophageal cancer in the first tier [July 2025 PSD 6.15, par 10.10] The Tier 2 price is lower due to the simplified pricing structure, along with some further reductions in the pricing assumptions for Tier 2 indications and treatment settings as outlined in the submission. |
| Budget impact | \$ over 6 years | \$ over 6 years | The increased budget impact reflects a broader scope that now includes use beyond TGA-approved indications, such as in patients with rare cancers. It also reflects methodological differences: the July 2025 submission was based on MSD’s internal commercial forecasts, while the November submission followed the Section 4 template per PBAC guidelines (outlined in the submission). The approach used in this submission has been aligned with the Department of Health and is considered more consistent with usual PBAC methods. |

Abbreviations: PD-(L)1 = programmed cell death protein 1/death ligand 1; PVA = price volume arrangement;

¹ The pre-PBAC response presented two options (3 tiers or 4 tiers) for the PBAC to consider.

- 3.4 In September 2025, the PBAC recommended a broad listing for the related drugs, nivolumab and ipilimumab, for advanced or metastatic cancers. The PSD for this consideration is provided at **Attachment B**.

4 Requested Listing

4.1 Compared to the recommended wording for nivolumab ± ipilimumab, the pembrolizumab proposal is closely aligned but more conservative due to:

- The use of the term "**unresectable**" in the restriction wording for pembrolizumab.
- Additional clinical criteria in the pembrolizumab proposal, including:
 - Exclusion of adjuvant/neoadjuvant/perioperative settings.
 - Requirement to follow clinical guidelines.

4.2 The Secretariat has provided proposed amendments to the proposed restrictions with deletions as strikethrough and additions in italics.

| MEDICINAL PRODUCT | PBS item code | Max. Amount | №.of Rpts |
|---|-------------------------------|-------------|-----------|
| PEMBROLIZUMAB Injection | NEW (Public) NEW (Private) | 400 mg | 7 |
| Available brands | | | |
| Keytruda® (pembrolizumab 100 mg/4 ml injection, 4 ml vial) | | | |
| Restriction Summary [new] / Treatment of Concept: [new] | | | |
| Category / Program: Section 100 – Efficient Funding of Chemotherapy Public/Private Hospitals | | | |
| Prescriber type: Medical Practitioners | | | |
| Restriction Type: Authority Required (STREAMLINED) | | | |
| Indication: Unresectable advanced and metastatic cancers | | | |
| Clinical Criteria: | | | |
| Treatment must not be used in the adjuvant, neoadjuvant, or perioperative setting | | | |
| AND | | | |
| Clinical Criteria: | | | |
| Where available, <i>The treatment must be prescribed in accordance with recognised clinical practice guidelines, where available</i> | | | |
| AND | | | |
| Clinical Criteria: | | | |
| The treatment must not be used in a tumour that is known to be unresponsive to a PD-1 (programmed cell death-1) inhibitor | | | |
| AND | | | |
| Treatment Criteria: | | | |
| Patient must be undergoing treatment with this drug administered once every 3 weeks - prescribe up to 7 repeat prescriptions; OR | | | |
| Patient must be undergoing treatment with this drug administered once every 6 weeks - prescribe up to 3 repeat prescriptions | | | |
| Administrative Advice: No increase in the maximum amount or number of units may be authorised | | | |
| Administrative Advice: No increase in the maximum number of repeats may be authorised | | | |
| Administrative Advice: Special Pricing Arrangements apply | | | |

Table 2: Comparison of Restriction Wording and Clinical Criteria

| | Pembrolizumab (Oct 2025) | Pembrolizumab (Jul 2025) | Nivolumab ± Ipilimumab (Sep 2025) |
|---------------------------------------|--|--|--|
| Restriction Wording | Unresectable advanced/metastatic cancers | TGA registered advanced/metastatic indications | Advanced/metastatic cancers considered immunotherapy-sensitive |
| Prescribing Instructions | Excludes adjuvant/neoadjuvant/perioperative; must follow clinical guidelines | Aligned to TGA PI | Minimal clinical criteria; clinician discretion |
| Retreatment & Extended ToT | Included | Included | Included |

4.3 The Secretariat noted the clinical criteria ‘The treatment must not be used in a tumour that is known to be unresponsive to a PD-1 (programmed cell death-1) inhibitor’ may be open to interpretation and require supporting resources for prescribers to refer to in order to ensure it is applied appropriately.

5 Proposed Pricing

5.1 The proposal used a similar approach to pricing as was undertaken in the July 2025 submission. The sponsor has proposed an initial weighted price that encompasses all currently listed PBS indications and prices as well as two recommended but not yet implemented indications.

5.2 The sponsor notes, based on the PBAC’s advice from July, it has also included two indications for which there is a positive PBAC recommendation but that have not yet progressed to listing. The sponsor noted this resulted in a slight overall reduction in the weighted price. *The Secretariat noted pembrolizumab was recommended for high-risk, locally advanced cervical cancer in March 2025, but had not yet proceeded to listing. Advice was sought on whether this indication would be included under the proposed restrictions for the broad listing.*

5.3 The sponsor also highlighted that there had been a change in the data source supporting the modelling of future use of pembrolizumab in these indications. Rather than being based on internal commercial forecasts, current utilisation was projected into the future using the most recent full year of script data (i.e. 2024 data).

5.4 These changes resulted in a small reduction to the calculated weighted price (\$ current vs \$ in July 2025).

Public Summary Document – December 2025 PBAC Meeting

Table 3: Pricing per indication applied in weighted price

| Indication | AEMP (\$) per 100 mg | | Weighting | |
|-------------------------|----------------------|--|-----------|---|
| NSCLC, Stage IV | - | | | % |
| Melanoma, advanced | - | | | % |
| UC | - | | | % |
| cHL | - | | | % |
| TNBC, metastatic | - | | | % |
| HNSCC, metastatic | - | | | % |
| Cervical, metastatic | - | | | % |
| CRC | - | | | % |
| PMBCL | - | | | % |
| Endometrial, 2L | - | | | % |
| RCC, metastatic | - | | | % |
| Oesophageal, metastatic | - | | | % |
| cSCC | - | | | % |

Source: Appendix 2 Table A of the submission

AEMP = approved ex manufacturer price; cHL = classical Hodgkin’s lymphoma; CRC = colorectal cancer; cSCC = cutaneous squamous cell carcinoma; HNSCC = head and neck squamous cell carcinoma; NSCLC = non-small cell lung cancer; PMBCL = primary mediastinal B cell lymphoma; PBS = Pharmaceutical Benefits Scheme; RCC = renal cell carcinoma; TNBC = triple negative breast cancer; UC = urothelial cancer; 2L = second line.

Blue cells indicate a price already established through PBAC process and price is known to MSD (i.e. pembrolizumab has been recommended on a cost-minimisation basis)

5.5 A consolidated price discount was proposed for the additional populations to achieve a % price reduction over the weighted Tier 1 price (\$). This figure was calculated based on the submission weighting proposed prices for new indications and in additional treatment setting (i.e. retreatment, use beyond 2 years, rare cancers).

Table 4: Proposed pricing per vial

| Tier | Price (AEMP) per vial (\$) | Price Q4W (\$) | % Discount v Tier 1 |
|------|----------------------------|----------------|---------------------|
| 1 | - | - | -- |
| 2 | - | - | % |

6 Risk sharing arrangement

6.1 The tiered subsidisation caps for both the July and October 2025 proposals are presented in Table 5.

Table 5: Comparison of proposed RSA approach in July and October 2025 proposals

| July 2025 pre-PBAC response | | Current submission | | |
|--|----------------------|--|----------------------|-------------------|
| Structure | AEMP (\$) per 100 mg | Structure | AEMP (\$) per 100 mg | AEMP (\$) per Q4W |
| Tier 1 Current adv/met indications | - | Tier 1 Current adv/met indications | - | - |
| Tier 2 All future adv/met indications | - | Tier 2 All future use including future adv/met indications, retreatment, ToT > 2 years, rare/ultra-rare | - | - |
| Tier 3 Retreatment, ToT >2 years | - | | | |
| Tier 4 'allowance' | - | | | |

Adv = advanced; AEMP, approved ex-manufacturer price; met = metastatic, ToT = time on treatment

Public Summary Document – December 2025 PBAC Meeting

- 7.3 The PBAC considered that “the following elements need to be included in a future version of the model in order for the utilisation estimates to be suitable for consideration by the Department of Finance: details on the modelling methodology to enable verification of patient numbers, vials and scripts; inclusion of offset medicines [for the Tier 2b indications]; incorporation of patient copayments; impacts to Services Australia for increased service volumes for pembrolizumab and decreased volumes for affected medicines; appropriate impacts for the MBS, such as administration costs.” (July 2025, Paragraph 8.8).
- 7.4 In this submission, the Sponsor has used a multi-model approach, comprising fifteen (15) PBAC utilisation and cost models (UCM). Comprising Summary financial impact (Model 1), Current listings (Model: 2), Future indications (Models 3-12), Removal of Once In a lifetime (OIAL) (Model 13), Removal of 2 year stopping rule (Model 14) and Rare cancers (Model 15). This approach was discussed and agreed with the Department prior to the current submission.
- 7.5 The review undertaken by the Drug Utilisation Section (DUS) focused on the structure and arithmetic of the 15 models.
- 7.6 Overall, the sponsor noted the revised broad listing proposal for pembrolizumab in advanced and metastatic cancer would be for a total of \$200 million to < \$300 million in year 1 increasing to \$300 million to < \$400 million in year 6. This would comprise of;
- \$200 million to < \$300 million in year 1 increasing to \$200 million to < \$300 million in year 6 to cover Tier 1 indications, which includes 11 indications currently listed on the PBS for advanced and metastatic cancer and 2 which are PBAC recommended, and
 - \$80 million to < \$90 million in year 1 increasing to \$100 million to < \$200 million in year 6 to cover Tier 2 indications, which captures the impact of expanding access to pembrolizumab for advanced and metastatic cancers across numerous indications and settings, including allowing treatment for patients with rare cancers who are unlikely to have a registered TGA indication.
- 7.7 Table 7 shows the financial impact of the proposed listing over the forward estimates:

Public Summary Document – December 2025 PBAC Meeting

Table 7: Financial impact of the proposal over the forward estimates

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Total |
|--|------------|------------|------------|------------|------------|------------|------------|
| Pembrolizumab (Effective Price) | | | | | | | |
| Tier 1 (Current, Models 2-3) | \$1 | \$1 | \$1 | \$1 | \$1 | \$1 | \$2 |
| Tier 2 (Future, OIAL, Beyond 2 yrs, Rare: Models 4-15) | \$3 | \$4 | \$4 | \$4 | \$4 | \$4 | \$5 |
| Estimated cost to PBS/RPBS | \$1 | \$6 | \$6 | \$6 | \$6 | \$6 | \$2 |
| Other Medicines (Published Price) | | | | | | | |
| Lenvatinib | \$7 | \$8 | \$8 | \$8 | \$8 | \$8 | \$1 |
| Enfortumab vedotin | \$4 | \$4 | \$4 | \$4 | \$4 | \$4 | \$10 |
| Offset Medicines | -\$11 | -\$11 | -\$11 | -\$11 | -\$11 | -\$11 | -\$11 |
| Total Estimated cost to PBS/RPBS | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 | \$2 |

Source: Model 1 - UCM_MSD Multicancer_Net Impact. Includes patient co-payments. Reflects corrections made to structure and arithmetic during the DUS review.

The redacted values correspond to the following ranges:

¹ \$200 million to < \$300 million

² > \$1 billion

³ \$80 million to < \$90 million

⁴ \$100 million to < \$200 million

⁵ \$700 million to < \$800 million

⁶ \$300 million to < \$400 million

⁷ \$20 million to < \$30 million

⁸ \$30 million to < \$40 million

⁹ \$40 million to < \$50 million

¹⁰ \$900 million to < \$1 billion

¹¹ net cost saving

Current Listings (Model 2)

7.8 The current listings include 11 indications. The methods and assumptions used are described in the resubmission. The data sources and calculations were checked and confirmed by the department.

7.9 The methods and assumptions used to develop the utilisation estimates for the July 2025 submission and the resubmission are compared in Table 8. Overall, the total net cost to the PBS and RPBS is 11 percent higher in the resubmission compared to the July 2025 submission from the revised modelling (see Table 9 below).

Public Summary Document – December 2025 PBAC Meeting

Table 8: Methods and assumptions used to forecast the utilisation of the current listing for pembrolizumab (Model 2)

| | July 2025 submission | December 2025 resubmission | Comments |
|--------------------------------|--|--|---|
| Indications | Advanced carcinoma of the cervix; Recurrent, unresectable or metastatic triple negative breast cancer; Advanced, metastatic or recurrent endometrial carcinoma Stage IV clear cell variant renal cell carcinoma (RCC); Recurrent or metastatic squamous cell carcinoma of the oral cavity, pharynx or larynx; Unresectable or metastatic deficient mismatch repair (dMMR) colorectal cancer; Primary mediastinal B cell lymphoma (PMBCL); Locally advanced or metastatic (Stage IV) urothelial cancer; Relapsed or refractory Hodgkin Lymphoma; Stage IV metastatic non-small cell lung cancer (NSCLC); and Unresectable Stage III or IV malignant melanoma. | No changes in indications compared to the July 2025 submission. | The PBS item code list used for the data extraction was checked on 31 October 2025. All relevant items were represented. Item codes 12120X, 12125E, 12127G and 12130K were excluded as these include Stage III melanoma. However these codes also include continuing treatment for Stage IV melanoma and their exclusion would give a small underestimate for the future supply of scripts. |
| Projected prescriptions | Commercial forecasting and assumptions were used where the treatment uptake curves were derived from several factors including Start share, Peak share, Curve type and Time to peak. The vial and script numbers could not be verified as only limited information was able to be made available from the commercial model. | <ul style="list-style-type: none"> • A separate sheet is included for each indication to calculate the base number of scripts for 2025. • The base number of prescriptions is sourced from the Services Australia PBS Item Report. This provides data based on the date of processing of a PBS claim. • For each indication, data is extracted for the 2024 calendar year. • The public vs. private split and breakdown by concessional status is based on the results provided by Services Australia for 2024. • The scripts are broken down by Q6W and Q3W dosing based on the PBS item number. The Q6W scripts are converted to Q3W scripts by dividing the number of scripts by 2. • An annual growth rate of 1.6% is applied to forecast the scripts for every indication. • The scripts for triple negative breast cancer and cervical cancer are combined. | <ul style="list-style-type: none"> • The resubmission estimates the number of scripts for 2025 and then applies an annual growth rate of 1.6%. The growth rate is for the general population and is not specific to the actual growth in PBS prescriptions for each individual indication. • The listings for pembrolizumab have two dosing schedules, every 3 weeks (Q3W), and every 6 weeks (Q6W). The resubmission converts all prescriptions to a common denominator (i.e. Q3W) as counting prescriptions for the Q6W dosing would underestimate the number of prescriptions as each prescription covers twice the Q3W dose. • For listings that do not have a separate item code for the Q3W and Q6W dose, the resubmission uses the melanoma and NSCLC listings as a proxy to estimate a dosing split of Q3W █%: Q6W █%. |

Public Summary Document – December 2025 PBAC Meeting

Table 9: Current Listings: Comparison of the utilisation estimates for the resubmission versus the July 2025 submission (Tier 1, Model 1)

| Indication | Parameter | July 2025 submission (v 30 May 2025) | | | | | | | Current submission | | | | | | | % difference | | |
|---------------------------------------|-----------|--------------------------------------|--------|--------|--------|--------|--------|----------|--------------------|--------|--------|--------|--------|--------|----------|--------------|----|-----|
| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 1-6 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 1-6 | | | |
| TNBC + Cervical | Scripts | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | -33% | | |
| | Net (\$m) | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | -35% | | |
| Endometrial | Scripts | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 10% | | |
| | Net (\$m) | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | -13% | | |
| RCC | Scripts | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | -39% | | |
| | Net (\$m) | 5 | 5 | 5 | 5 | 5 | 5 | 10 | 7 | 7 | 7 | 7 | 7 | 7 | 11 | -52% | | |
| RHNSCC | Scripts | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 2 | 2 | 1 | 1 | 1 | 1 | 14 | -5% | | |
| | Net (\$m) | 5 | 5 | 5 | 5 | 5 | 5 | 12 | 5 | 5 | 5 | 5 | 5 | 5 | 12 | 1% | | |
| CRC | Scripts | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 91% | | |
| | Net (\$m) | 5 | 7 | 7 | 7 | 7 | 7 | 15 | 9 | 9 | 9 | 9 | 9 | 9 | 13 | 165% | | |
| PMBCL | Scripts | 16 | 16 | 16 | 16 | 16 | 16 | 2 | 16 | 16 | 16 | 16 | 16 | 16 | 2 | 5% | | |
| | Net (\$m) | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 27% | | |
| UC | Scripts | 2 | 2 | 16 | 16 | 16 | 16 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 524% | | |
| | Net (\$m) | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 15 | 523% | | |
| cHL | Scripts | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 8% | | |
| | Net (\$m) | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 30% | | |
| NSCLC | Scripts | 14 | 14 | 14 | 14 | 14 | 14 | 17 | 14 | 14 | 14 | 14 | 14 | 14 | 17 | 3% | | |
| | Net (\$m) | 12 | 12 | 13 | 13 | 13 | 13 | 18 | 12 | 13 | 13 | 13 | 13 | 13 | 18 | -1% | | |
| Melanoma | Scripts | 1 | 1 | 1 | 1 | 1 | 1 | 19 | 4 | 4 | 4 | 4 | 4 | 4 | 20 | 59% | | |
| | Net (\$m) | 9 | 9 | 9 | 9 | 9 | 9 | 13 | 11 | 11 | 11 | 11 | 11 | 11 | 9 | 66% | | |
| Total net PBS/RPBS cost (\$m): | | | | | | | | | 21 | | | | | | | | 21 | 11% |

Source:

Utilisation and cost model for the July 2025 submission (version 30 May 2025). 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx', sheets '7. Scripts Proposed – T1' and '15. Impact – Proposed (Eff)'.
 Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '2. UCM_MSD_multicancer_Current.xlsx'.

The redacted values correspond to the following ranges:

- ¹ 5,000 to >10,000
- ² 500 to < 5,000
- ³ 20,000 to < 30,000
- ⁴ 10,000 to < 20,000

Public Summary Document – December 2025 PBAC Meeting

- ⁵ \$10 million to < \$20 million
- ⁶ \$80 million to < \$90 million
- ⁷ \$0 to < \$10 million
- ⁸ \$50 million to < \$60 million
- ⁹ \$20 million to < \$30 million
- ¹⁰ \$70 million to < \$80 million
- ¹¹ \$30 million to < \$40 million
- ¹² \$90 million to < \$100 million
- ¹³ \$100 million to < \$200 million
- ¹⁴ 30,000 to < 40,000
- ¹⁵ \$40 million to < \$50 million
- ¹⁶ < 500
- ¹⁷ 200,000 to < 300,000
- ¹⁸ \$600 million to < \$700 million
- ¹⁹ 40,000 to < 50,000
- ²⁰ 60,000 to < 70,000
- ²¹ > \$1 billion

Future Listings (Model 3-12)

- 7.10 There are 16 future indications in the proposal and of these, the hepatocellular carcinoma (HCC) is new compared to the July 2025 submission and two (2) indications are PBAC recommended but not yet implemented, namely, 1L oesophageal cancer (recommended by the PBAC in May 2022) and cutaneous squamous cell carcinoma (recommended by the PBAC in November 2023).
- 7.11 An epidemiological approach was used to estimate the financial implications associated with the future listings. The methods and assumptions used are described in the resubmission and are reproduced in Table 10 below. The structure and arithmetic of the models were checked by the Department.

Table 10: Standard assumptions adopted in the utilisation estimates

| Variable | Approach and standard assumptions |
|-------------------|--|
| Epidemiology | Wherever possible, estimates are sourced from standardised, validated and Australian sources. Typically these are: <ul style="list-style-type: none"> • Australian Institute of Health and Welfare (AIHW) incidence, prevalence and mortality data • PBS Statistics • PBAC Minutes, Public Summary Documents and DUSC reports |
| Eligibility | Proportion of patients who will be: <ul style="list-style-type: none"> • considered for immunotherapy/PD-(L)1 treatment as opposed to other drug classes or surgery • ECOG (0-1) status representing 80% (default), unless otherwise noted e.g. certain indications with typically more frail patients, or existing PBAC precedent determined from PSDs • Tested for biomarkers (where applicable) e.g. HER2, MMR, MSI, TMB |
| Uptake | Upon eligibility, the peak uptake of pembrolizumab (i.e. proportion of patients electing treatment) is considered to be: <ul style="list-style-type: none"> • █% for first to market indications • █% for second to market indications These peak uptakes are typically achieved by Year 2 for first to market indications and Year 3 for second to market indications, unless otherwise noted. |
| Time on treatment | Wherever possible, estimates are sourced from the clinical trial, existing PBAC minutes and PSDs, submitted pricing packages, or derived in a methodical approach using published sources. |

- 7.12 In the resubmission, the Sponsor has stated that “compared with the previous submission, which relied on MSD’s commercial forecasts, the approach taken to calculate the utilisation estimates in this resubmission is more consistent with the typical approach used in PBAC submissions. For example, unlike the previous submission, the revised utilisation estimates do not consider the impact of future competitor launches given that the likelihood and timing of those potential launches are inherently uncertain.”
- 7.13 Overall, the total net cost to the PBS and RPBS is 57 per cent higher in the resubmission compared to the July 2025 submission from the revised modelling (see Table 11 below).

Public Summary Document – December 2025 PBAC Meeting

Table 11: Future Listings: Comparison of the utilisation estimates for the resubmission versus the July 2025 submission

| Tier # | Model # | Indication | Parameter | July 2025 Submission | | | | | | Current Submission | | | | | | % difference | | |
|--------|-----------------------|----------------------|-----------|----------------------|--------|--------|--------|--------|--------|--------------------|--------|--------|--------|--------|--------|--------------|--------|-------------------|
| | | | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 1-6 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | | Year 6 | Year 1-6 |
| 1 | 3 | Oesophageal (KN590) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | -4% |
| | | | Scripts | 2 | 2 | 2 | 2 | 2 | 2 | 13 | 2 | 2 | 2 | 2 | 2 | 2 | 14 | 31% |
| | | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$11 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$11 | 16% |
| | 3 | cSCC (KN629) | Patient # | 1 | 2 | 2 | 2 | 2 | 2 | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | -61% |
| | | | Scripts | 2 | 3 | 4 | 4 | 4 | 4 | 21 | 2 | 2 | 2 | 3 | 3 | 3 | 15 | -35% |
| | | | Net (\$m) | \$9 | \$10 | \$11 | \$11 | \$12 | \$12 | \$16 | \$9 | \$9 | \$10 | \$10 | \$10 | \$10 | \$14 | -46% |
| 2 | 4 | Ovarian (KNB96) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 263% ¹ |
| | | | Scripts | 1 | 1 | 2 | 1 | 1 | 1 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 13 | 269% |
| | | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$11 | 332% |
| | 5 | TMB-H (KN158) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 242% |
| | | | Scripts | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 13 | 356% |
| | | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$10 | 469% |
| | 6 | MSI-H (KN158/164) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 71% |
| | | | Scripts | 1 | 1 | 2 | 2 | 2 | 2 | 10 | 2 | 2 | 2 | 2 | 2 | 2 | 13 | 168% |
| | | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$11 | 234% |
| | 7 | 7. 1L nccRCC (KNB61) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 90% |
| | | | Scripts | 1 | 2 | 2 | 2 | 2 | 2 | 13 | 2 | 2 | 2 | 2 | 2 | 2 | 15 | 187% |
| | | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$11 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$12 | 80% |
| | 7 | 1LccRCC (KN581) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | -15% |
| | | | Scripts | 1 | 1 | 2 | 2 | 2 | 2 | 10 | 1 | 2 | 2 | 2 | 2 | 2 | 11 | 16% |
| | | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | 9% |
| | 8 | UC (KN052/KNA39) | Patient # | 1 | 2 | 2 | 2 | 2 | 2 | 14 | 2 | 2 | 2 | 2 | 2 | 2 | 14 | 59% |
| | | | Scripts | 2 | 3 | 3 | 3 | 3 | 3 | 18 | 4 | 4 | 4 | 4 | 4 | 4 | 20 | 166% |
| | | | Net (\$m) | \$9 | \$10 | \$10 | \$10 | \$10 | \$11 | \$15 | \$12 | \$12 | \$12 | \$12 | \$12 | \$12 | \$17 | 136% |
| | 9 | pMMR 1L Endo (KN868) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | -11% |
| | | | Scripts | 2 | 2 | 2 | 2 | 2 | 2 | 13 | 2 | 2 | 2 | 2 | 2 | 2 | 14 | -36% |
| | | | Net (\$m) | \$9 | \$9 | \$10 | \$10 | \$10 | \$10 | \$13 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$10 | -66% |
| | 10 | HCC (New) | Patient # | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 6 | N/A |
| | | | Scripts | - | - | - | - | - | - | - | 2 | 3 | 3 | 3 | 3 | 3 | 18 | N/A |
| | | | Net (\$m) | - | - | - | - | - | - | - | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$13 | N/A |
| 11 | HER2+ Gastric (KN811) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 23% | |
| | | Scripts | 1 | 2 | 2 | 2 | 2 | 2 | 13 | 2 | 2 | 2 | 2 | 2 | 2 | 14 | 112% | |
| | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$10 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$12 | 88% | |
| 12 | Mesothelioma (KN483) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | -7% | |
| | | Scripts | 1 | 2 | 2 | 2 | 2 | 2 | 13 | 1 | 2 | 2 | 2 | 2 | 2 | 14 | -26% | |
| | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$10 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$10 | -23% | |
| 12 | 1L Biliary | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 55% | |

Public Summary Document – December 2025 PBAC Meeting

| | | | | | | | | | | | | | | | | | | |
|--|--------------------------------------|-------------------------|-----------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|
| | (KN966) | Scripts | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 150% | |
| | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$10 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$12 | 98% |
| | 12 | Merkel CC (KN913) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | -17% |
| | | | Scripts | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | -16% |
| | | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$10 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$10 |
| | 12 | dMMR 1L Endo (KN868) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | -62% |
| | | | Scripts | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | -29% |
| | | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$12 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$11 |
| | 12 | 1L HER2-Gastric (KN859) | Patient # | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | -24% |
| | | | Scripts | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 16% |
| | | | Net (\$m) | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$12 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$9 | \$12 |
| | Total Net PBS/RBS Cost (\$m): | | | | | | | | \$18 | | | | | | | | \$19 | 57% |

Source:

Utilisation and cost model for the July 2025 submission (version 30 May 2025). 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx'

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025) - Models 3-12. The above figures reflect the corrections made by DUS during the review as described in Table 12 below.

The redacted values correspond to the following ranges:

¹ < 500

² 500 to < 5,000

³ 5,000 to < 10,000

⁴ 10,000 to < 20,000

⁵ 20,000 to < 30,000

⁶ 30,000 to < 40,000

⁷ 50,000 to < 60,000

⁸ 100,000 to < 200,000

⁹ \$0 to < \$10 million

¹⁰ \$10 million to < \$20 million

¹¹ \$20 million to < \$30 million

¹² \$30 million to < \$40 million

¹³ \$50 million to < \$60 million

¹⁴ \$70 million to < \$80 million

¹⁵ \$90 million to < \$100 million

¹⁶ \$100 million to < \$200 million

¹⁷ \$200 million to < \$300 million

¹⁸ \$300 million to < \$400 million

¹⁹ \$500 million to < \$600 million

²⁰ \$40 million to < \$50 million

Public Summary Document – December 2025 PBAC Meeting

7.14 The structural or arithmetic errors that were corrected during the review by the Drug Utilisation Section are detailed in Table 12 below.

Table 12: Structure and arithmetic errors corrected during DUS review

| Model # | Indication | Issue | Correction Made | Source |
|---------|----------------------|--|--|--|
| 9 | pMMR 1L Endo (KN868) | Correction to arithmetic. The Stage I/II EC assumption of █% was missing in the calculation of the Stage I/II recurrent EC patients. | Corrected formula to be consistent with the description provided by the Sponsor. | Worksheet 10. Registry, Cell L199 – Q199 |
| | | Correction to structure. Prevalent population proposed is based on the patients in 2026, which double counts with the incident patients commencing in 2026. | Updated the prevalent population based to the patients in 2025. | Worksheet 10. Registry, Cell K207 – K210 |

7.15 The key inputs and assumptions used to develop the utilisation estimates for each of the future indications in the resubmission are compared to the July 2025 submission (where appropriate) in Table 13 - Table 28 below.

Table 13: sSCC (KN629) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 3 cSCC (KN629) | July Submission | | Current Submission | |
|-------------------------|-----------------|----------------|---|---|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| New PD-(L)1 patients | █ ¹ | MSD assumption | █ ² | Departmental Estimates |
| Treatment | | | | |
| Peak brand share | █% | MSD assumption | Year 1: █% Year 2: █% Year 3-6: █% | MSD assumption |
| Time on treatment (ToT) | Not Specified | | 57.97 weeks | Cemiplimab March 2022 PSD Table 14 p. 44 |
| Time to peak | 24 months | MSD assumption | █% in Year 1, █% in Year 2, █% in Years 3-6 | MSD assumption, for indications where there is another PD-(L)1 available on the PBS |
| Dosage Regimen | Not Specified | | 200 mg Q3W | MSD assumption |

Source: 1. Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '5. Patients - T2b'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '3. UCM_MSD Multicancer_PBAC Recommended'.
cSCC = Metastatic or locally advanced cutaneous squamous cell carcinoma

The redacted values correspond to the following ranges:

¹ 5,000 to < 10,000

² 500 to < 5,000

Public Summary Document – December 2025 PBAC Meeting

Table 14: Oesophageal (KN590) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Oesophageal cancers (KN590) | | July Submission | | Proposed Submission | |
|--|----------------------|-----------------|---|---|--|
| Parameter | Value | Source | Value | Source | |
| Population | | | | | |
| New PD-(L)1 patients | █ ¹ | MSD assumption | 1,289 | Departmental Estimates | |
| Proportion of gastro (HER 2 negative)-oesophageal cancers which is oesophageal | | | 46% | AIHW Book 1b & Gravalos, C.2008 for HER2-ve prevalence | |
| Treatment | | | | | |
| Peak brand share | █% | MSD assumption | Year 1: █% Year 2: █% Year 3-6: █% | MSD assumption, for indications where there is another PD-(L)1 available on the PBS | |
| Time on treatment (ToT) | <i>Not Specified</i> | | 32.88 weeks | Pembrolizumab Nov 2021 with Mar 2022 Addendum Table 13 p. 27 | |
| Time to peak | █months | MSD assumption | █% in Year 1, █% in Year 2, █% in Years 3-6 | MSD assumption, for indications where there is another PD-(L)1 available on the PBS | |
| Dosage Regimen | <i>Not Specified</i> | | 200 mg Q3W | MSD assumption | |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '5. Patients - T2b'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '3. UCM_MSD Multicancer_PBAC Recommended'.

The redacted values correspond to the following ranges:

¹ 500 to < 5,000

Public Summary Document – December 2025 PBAC Meeting

Table 15: Ovarian (KNB96) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 4 Ovarian (KNB96) | July Submission | | Proposed Submission | |
|--|-----------------|-----------------------------------|----------------------------|---|
| Parameter | Value | Source | Value | Source |
| Population(s) | | | | |
| A: Incident - De novo | | | | |
| Incidence – Ovarian cancer and serous carcinoma of fallopian tubes | 1,854 | AIHW (2024) 2025 Value | 1,854 | AIHW (2024) 2025 Value |
| Incidence – epithelial tumours | 84% | Olaparib July 2020 Paragraph 6.44 | 84% | Olaparib July 2020 Paragraph 6.44 |
| Stage III-IV (de novo) (1L) | | | 70% | Olaparib July 2020 p. 7 Cancer Council 2024 NGOR Annual Report 2023 |
| B: Recurrent | | | | |
| Stage III-IV (recurrent) (1L) - 5 year | | | 25% | Garzon et al 2020 |
| Platinum resistant / recurrent (2L) | █% | MSD assumption (KANTAR) | █% | MSD assumption, applied to sum of de novo and recurrent patients. Represents PROC patients eligible for pembrolizumab i.e. net 75% of patients removed from 1L population owing to earlier line disease control, ineligibility (platinum sensitive), or death |
| Eligibility | | | | |
| Treatment rate (2L) | █% | MSD assumption | | |
| Stage IV which are 2L drug treatable | █% | MSD assumption | | |
| Braca WT | █% | MSD assumption | | |
| ECOG 0 to 1 | | | █% | MSD assumption |
| Elect IO class treatment | | | █% | MSD assumption |
| Treatment | | | | |
| Peak PD-(L)1 class share | █% | MSD assumption | | |
| Peak brand share | █% | MSD assumption | | |
| Time to peak (Months) | | MSD assumption | Not Applicable | |
| Treatment Uptake Rate | | | █%, █%, █%, █% Year 1-6 | MSD assumption, based on existing pembrolizumab precedents. For indications where there is no other PD-(L)1 available on the PBS, time to peak uptake is 1 year (█% of peak uptake in year 1, █% in year 2-6). |
| Time on treatment (ToT) (Months) | 9.7 | Based on trial-specific KM curve | 7.5 months 32.59 weeks | Based on trial-specific KM curve |
| Dosage Regimen | Not Specified | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '4. Patients - T2a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '4. UCM_MSD Multicancer_Ovarian'.

Public Summary Document – December 2025 PBAC Meeting

Table 16: TMB-H (KN158) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 5 TMB-H (KN158) | July Submission | | Proposed Submission | |
|--|----------------------|----------------------------------|------------------------------------|--|
| Parameter | Value | Source | Value | Source |
| Population(s) | | | | |
| Incidence – All cancer types included in KN158 study | 58,785 | AIHW (2024) | 58,790 | AIHW (2024) – Book 1e, projected incidence in 2026 |
| Stage IV (advanced/metastatic) | 13,294 | AIHW (2024) - Mortality Rate | 13,221 | AIHW (2024) – Book 1e, projected incidence in 2026 |
| Eligibility | | | | |
| Stage IV which are 2L drug treatable | █% | MSD assumption | | |
| Treatment rate (2L) | █% | MSD assumption | | |
| ECOG 0 to 1 | | | 70% | T-DXd PSD |
| Biomarker testing rate | █% | MSD assumption | █% | MSD assumption |
| Biomarker prevalence | 3.0% | Internal RWE Report from Omico | 4.05% | Internal RWE Report from Omico |
| Treatment | | | | |
| Peak PD-(L)1 class share | █% | MSD assumption | | MSD assumption |
| Treatment Uptake Rate | | | █%, █%, █%, █%, █%, █% Year 1-6 | MSD assumption, for indications where there is no other PD-(L)1 available on the PBS, time to peak uptake is 1 year (█% of peak uptake in year 1, █% in year 2-6). |
| Peak brand share | █% | MSD assumption | | |
| Time on treatment (ToT) (Months) | 9.0 | Based on trial-specific KM curve | 7.3 months 31.63 weeks | Based on trial-specific KM curve |
| Time to peak (Months) | | MSD assumption | | |
| Dosage Regimen | <i>Not Specified</i> | | 200 mg Q3W | |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '4. Patients - T2a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '5. UCM_MSD Multicancer_TMB'.

Public Summary Document – December 2025 PBAC Meeting

Table 17: MSI-H (KN158/164) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 6 MSI-H (KN158/164) | July Submission | | Proposed Submission | |
|--|-----------------|----------------------------------|-----------------------------------|--|
| Parameter | Value | Source | Value | Source |
| Population(s) | | | | |
| Incidence – all cancer types included in KN158 | 58,785 | AIHW (2024) | 58,790 | AIHW (2024) – Book 1e, projected incidence in 2026 |
| Stage IV (advanced/metastatic) | 13,294 | AIHW (2024) - Mortality Rate | 13,221 | AIHW (2024) – Book 1e, projected incidence in 2026 |
| Eligibility | | | | |
| Stage IV which are 2L drug treatable | % | MSD assumption | | |
| Treatment rate (2L) | % | MSD assumption | | |
| ECOG 0 to 1 | | | 70% | In line with previous PBAC accepted estimates for late line patients (T-DXd PSD: Table 34, p77) |
| Biomarker testing rate | % | MSD assumption | % | MSD assumption based on clinician feedback |
| Biomarker prevalence | 3.8% | Internal RWE Report from Omico | 3.1% | Internal RWE Report from Omico |
| Treatment | | | | |
| Peak PD-(L)1 class share | % | MSD assumption | | |
| Peak brand share | % | MSD assumption | | |
| Time to peak | months | MSD assumption | | |
| Treatment Uptake Rate | | | % , % , % , % , % , % Year 1-6 | MSD assumption, for indications where there is no other PD-(L)1 available on the PBS, time to peak uptake is 1 year (% of peak uptake in year 1, % in year 2-6). |
| Time on treatment (ToT) | 7.3 months | Based on trial-specific KM curve | 7.3 months 31.63 weeks | Based on trial-specific KM curve |
| Dosage Regimen | | | 200 mg Q3W | |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '4. Patients - T2a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '6. UCM_MSD Multicancer_MSI-H'.

Public Summary Document – December 2025 PBAC Meeting

Table 18: 1L nccRCC (KNB61) Comparison of the key inputs and assumptions for the July 2025 vs resubmission.

| Model 7 1L nccRCC (KNB61) | July Submission | | Proposed Submission | |
|---|-----------------|--|------------------------------------|--|
| Parameter | Value | Source | Value | Source |
| Population(s) | | | | |
| A: Incident - De novo metastatic | | | | |
| Incident - total - Kidney Cancer - Projected (AIHW) | 4,926 | AIHW (2024) 2025 Value | 5,079 | AIHW (2024) – Book 1e, projected incidence in 2026 |
| Renal cell carcinoma | 90% | Cancer Council (2025) | 90% | Cabozantinib nccRCC 03-2024 PSD |
| Clear cell incidence | 20% | Cancer Council Victoria (2024) | 20% | Cancer Council Victoria (2024) |
| de novo metastatic patients at diagnosis | 25% | Gupta et al (2008) DUSC June 2014 review - pazopanib and sunitinib for RCC | 25% | Gupta et al (2008), DUSC June 2014 review - pazopanib and sunitinib for RCC |
| B: Recurrent | | | | |
| Earlier stage disease (Stage I-III) at diagnosis | 1 Patients | MSD assumption KANTAR | 75% | 1-25% (de novo metastatic patients at diagnosis) |
| Recurrence Rate | | | 25% | Tyson & Chang (2017) Pembrolizumab + Lenvatinib 1L RCC March 2022 PSD |
| Eligibility | | | | |
| Intermediate/Poor/favorable risk | 1% | MSD assumption | | |
| Treatment rate | 1% | MSD assumption | | |
| ECOG 0 to 1 | | | 1% | MSD assumption |
| Treatment | | | | |
| Peak PD-(L)1 class share | 1% | MSD assumption | 1% | MSD assumption |
| Peak brand share | 1% | MSD assumption | | |
| Treatment Uptake Rate | | | 1%, 1%, 1%, 1%, 1%, 1% Year 1-6 | MSD assumption, for indications where there is no other PD-(L)1 available on the PBS, time to peak uptake is 1 year (1% of peak uptake in year 1, 1% in year 2-6). |
| Time on treatment (ToT) (Months) | 11.0 | Based on trial-specific KM curve, blended across groups | 14.73 Months 64.01 weeks | Accepted DoT for RCC (Pembrolizumab+Lenvatinib 1L RCC March 2022 PSD). Assumption DoT is consistent across RCC subtypes. |
| Time to peak | 1 months | MSD assumption | | |
| Dosage Regimen | | | 200 mg Q3W | |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '4. Patients - T2a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '7. UCM_MSD Multicancer_RCC'.

The redacted values correspond to the following ranges:

1 < 500

Public Summary Document – December 2025 PBAC Meeting

Table 19: 1L ccRCC (KN581) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 7 1LccRCC (KN581) | July Submission | | Proposed Submission | |
|---|-----------------|--|------------------------------|--|
| Parameter | Value | Source | Value | Source |
| Population(s) | | | | |
| A: Incident - De novo metastatic | | | | |
| Incident - total - Kidney Cancer - Projected (AIHW) | 4,926 | AIHW (2024) 2025 Value | 5,079 | AIHW (2024) – Book 1e, projected incidence in 2026 |
| Renal cell carcinoma | 90% | Cancer Council (2025) | 90% | Cabozantinib nccRCC 03-2024 PSD Pembrolizumab adj RCC 11-2024 PSD |
| Clear cell incidence | 80% | Cancer Council Victoria (2024) | 80% | Cancer Council Victoria (2024) |
| de novo metastatic patients at diagnosis | 25% | Gupta et al (2008) DUSC June 2014 review - pazopanib and sunitinib for RCC | 25% | Gupta et al (2008) DUSC June 2014 review - pazopanib and sunitinib for RCC |
| B: Recurrent | | | | |
| Earlier stage disease (Stage I-III) at diagnosis | 1 Patients | MSD assumption KANTAR | 75% | 1-25% (de novo metastatic patients at diagnosis) |
| Recurrence Rate | | | 25% | Tyson & Chang (2017) Pembrolizumab + Lenvatinib 1L RCC March 2022 PSD |
| Eligibility | | | | |
| Favorable risk | % | MSD assumption | 23% | Pembrolizumab + Lenvatinib 1L RCC March 2022 PSD |
| Treatment rate | % | MSD assumption | | |
| ECOG 0 to 1 | | | % | MSD assumption |
| Elect IO Class treatment | | | % | MSD assumption |
| Treatment | | | | |
| Peak PD-(L)1 class share | % | MSD assumption | | |
| Peak brand share | % | MSD assumption | | |
| Tx Uptake Rate | | | %, %, %, %, %, % Year 1-6 | MSD assumption |
| Time on treatment (ToT) (Months) | 14.2 | Based on trial-specific KM curve, blended across groups | 14.73 Months 64.01 weeks | DoT for RCC (Pembrolizumab March 2022) |
| Time to peak (Months) | | MSD assumption | | |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '4. Patients - T2a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '7. UCM_MSD Multicancer_RCC'.

The redacted values correspond to the following ranges:

¹ 500 to < 5,000

Public Summary Document – December 2025 PBAC Meeting

Table 20: UC (KN052) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 8 UC (KN052) | July Submission | | Proposed Submission | |
|---|-----------------|--|----------------------------|---|
| Parameter | Value | Source | Value | Source |
| PD-(L)1 Class | 1 ¹ | Internal assumption, approximately in line with enfortumab vedotin November 2024 PSD | 1,682 | Enfortumab vedotin PBAC PSD November 2024 |
| Eligibility | | | | |
| Patients eligible for first-line treatment with EV + PEM (E x 90%) | | | 90% | Enfortumab vedotin PBAC PSD November 2024 |
| Apply eligibility adjustment based on ESC calculation (933/1211 = 77.04%) | | | 77.04% | Enfortumab vedotin PBAC PSD November 2024, paragraph 6.76 |
| % of PD-(L)1 Class treated with PD-(L)1 monotherapy | % | MSD assumption | | |
| % of PD-(L)1 Class treated with PD-(L)1 + targeted therapy | % | MSD assumption | | |
| % of PD-(L)1 Class treated with PD-(L)1 + chemo | % | MSD assumption | | |
| Treatment | | | | |
| Peak brand share | % | Internal modelling assumption | | |
| Time on treatment (ToT) | 7.5 months | Based on trial-specific KM curve | 51.42 Weeks (~11.9 Months) | Enfortumab vedotin PSD November 2024, Para 6.59 |
| Time to peak | months | MSD internal modelling assumption | | |
| Treatment Uptake Rate | | | %, %, %, %, %, % | Enfortumab vedotin PBAC Minutes November 2024, Table 16 |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '4. Patients - T2a'.
 Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '8. UCM_MSD Multicancer_1L UC'.

The redacted values correspond to the following ranges:
 1 500 to < 5,000

Public Summary Document – December 2025 PBAC Meeting

Table 21: pMMR 1L Endo (KN868) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 9 pMMR 1L Endo (KN868) Parameter | July Submission | | Proposed Submission | |
|---|-----------------|--------|------------------------------------|---|
| | Value | Source | Value | Source |
| Population(s) | | | | |
| A: Incident - De novo metastatic/unresectable | | | | |
| Patients with Uterine Cancer - Projected (AIHW) | | | 3,728 | AIHW (2024) 2026 Value |
| Endometrial Cancer (EC) | | | 95% | 95% (Cancer Council) |
| Stage III/IV unresectable disease | | | 10% | Dostarlimab PSD November 2023 Table 20 p. 41-43 Dostarlimab PSD March 2022 Table 14 p. 35-36 |
| B: Recurrent from earlier stage | | | | |
| Stage I/II EC | | | 82% | Dostarlimab PSD November 2023 Table 20 p. 41-43, Dostarlimab PSD March 2022 Table 14 p. 35-36 |
| Stage I/II Recurrent EC | | | 13% | Dostarlimab PSD November 2023 Table 20 p. 41-43 |
| Stage III EC (resectable) | | | 8% | Dostarlimab PSD November 2023 Table 20 p. 41-43, Dostarlimab PSD March 2022 Table 14 p. 35-36 |
| Stage III Recurrent EC | | | 30% | Dostarlimab PSD November 2023 Table 20 p. 41-43 |
| C: Prevalent Population | | | | |
| Endometrial Cancer (EC) | | | 90% | 95% (Cancer Council) |
| Advanced to metastatic population | | | 10% | <i>Not Specified</i> |
| 1 yr Overall Survival | | | 83.5% | AIHW 5yr OS. Dostarlimab PSD November 2023 Table 20 p. 41-43 Pembrolizumab March 2022 with March 2023 Addendum Table 15 p. 34-36 |
| Eligibility | | | | |
| Patients eligible to receive 1L platinum based chemotherapy | | | 90% | Nivolumab PSD Nov 23-Mar 24 addendum Table 18 p. 43 |
| ECOG 0 to 1 | | | 80% | Dostarlimab PSD November 2023 Table 20 p. 41-43 |
| Proportion who have mismatch repair proficiency (pMMR) | | | 73% | Dostarlimab PSD November 2023 Table 20 p. 41-43 |
| Treatment | | | | |
| Tx Uptake Rate | | | █%, █%, █%, █%, █%, █% Year 1-6 | MSD assumption |
| Time on treatment (ToT) (Months) | | | 7.62 | MSD assumption |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '4. Patients - T2a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '9. UCM_MSD Multicancer_pMMR 1L Endo'.

Public Summary Document – December 2025 PBAC Meeting

Table 22: HCC (NEW) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 10 Hepatocellular carcinoma (HCC) | July Submission | | Proposed Submission | |
|--|-----------------|--------|---|---|
| Parameter | Value | Source | Value | Source |
| Population(s) | | | | |
| A: Incident - BCLC Stage A ineligible for resection or ablation | | | | |
| Liver cancer cases (AIHW) | | | 2,913 | AIHW, 2025 Value |
| Hepatocellular carcinoma | | | 82.0% | Atezolizumab + Bevacizumab PSD July 2020, Table 17, pg.31 |
| Total HCC with Child Pugh score A | | | 56.0% | Hong et al 2018 |
| Patients with BCLC Stage A | | | 31.8% | Average across 3 studies NSW/SA: Chandran et al. 2023, Yeoh et al 2024, McNamara et al. 2024 |
| Stage A patients ineligible for resection or ablation | | | 41.4% | Abelmalak et al. 2024 Disease Patterns |
| B: Recurrent BCLC Stage A (following resection or ablation) | | | | |
| Eligible for resection | | | 22.4% | Abelmalak et al. 2024 Disease Patterns |
| recurrence after resection: 1 yr recurrence | | | 11.7% | Abelmalak et al. 2024 Disease Patterns |
| Eligible for ablation | | | 29.2% | Abelmalak et al. 2024 Propensity Score Matching |
| recurrence after ablation: 1 yr recurrence | | | 21.4% | Abelmalak et al. 2024 Propensity Score Matching |
| C: Incident - BCLC Stage B | | | | |
| BCLC Stage B | | | 23.5% | Average across 3 studies NSW/SA: Chandran et al. 2023, Yeoh et al 2024, McNamara et al. 2024 |
| eligible for TACE | | | 45.7% | Atezolizumab + Bevacizumab PSD July 2020, Table 17, pg.31 |
| D: Incident - BCLC Stage C | | | | |
| BCLC Stage C | | | 21.0% | Average across 3 studies NSW/SA: Chandran et al. 2023, Yeoh et al 2024, McNamara et al. 2024 |
| eligible for TACE | | | 10.4% | Assumption as per baseline characteristics from LEAP-012 Trial (Kudo et al. 2025) |
| E: Prevalent | | | | |
| 1 yr Overall Survival | | | 56.1% | Cancer data in Australia, Cancer incidence and survival by subsite - Australian Institute of Health and Welfare (Relative 1 yr survival; Liver cell carcinoma C22.0) https://www.aihw.gov.au/reports/cancer/cancer-data-in-australia/contents/stage |
| Eligibility | | | | |
| ECOG 0 to 1 | | | Popn A,B,C: █% Popn D, E: █% | MSD assumption |
| Treatment | | | | |
| Treatment Uptake Rate | | | Incident A-D: █%, █%, █%, █%, █% Year 1-6 Prevalent E: █% | MSD assumption, for indications where there is no other PD-(L)1 available on the PBS, time to peak uptake is 1 year (█% of peak uptake in year 1, █% in year 2-6). |
| Time on treatment (ToT) (Months) | | | 12.4 Months 53.99 Weeks | median treatment duration, LEAP 12 study- Kudo et al. 2025 Lancet Oncology |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '4. Patients - T2a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '10. UCM_MSD Multicancer_HCC'.

Public Summary Document – December 2025 PBAC Meeting

Table 23: HER2+ Gastric (KN811) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 11 HER2+ Gastric (KN811) | July Submission | | Proposed Submission | |
|--|-----------------|---|--|---|
| Parameter | Value | Source | Value | Source |
| Population(s) | | | | |
| A: Incident | | | | |
| Incidence – stomach cancer | 2,610 | AIHW (2024) 2025 Value | 2,775 | AIHW (2024) – Book 1e, projected incidence in 2026 |
| Adenocarcinoma | 90% | Waddell, Verheij et al. (2013) | | |
| Newly diagnosed at Stage IV | % | MSD assumption | 44.3% | Mortality in 2024 as a surrogate for Stage IV |
| Proportion of patients with HER2+ve GC | | | 20.0% | Upper limit of estimate 10-20% from Gravalos, C.; Jimeno, A. HER2 in gastric cancer: A new prognostic factor and a novel therapeutic target. Ann. Oncol. 2008, 19, 1523–1529. |
| B: Recurrent | | | | |
| Earlier stage disease (Stage I-III) at diagnosis | † | MSD assumption KANTAR | | |
| Eligibility | | | | |
| HER 2 Testing rate | % | MSD assumption | | |
| HER 2+ Prevalence | % | MSD assumption | | |
| PDL1 Testing rate | % | MSD assumption | | |
| PDL1 CPS>1 prevalence rate | % | MSD assumption | | |
| Treatment rate | % | MSD assumption | | |
| ECOG 0 to 1 | | | % | MSD assumption |
| Treatment | | | | |
| Peak PD-(L)1 class share | % | MSD assumption | | |
| Peak brand share | % | MSD assumption | | |
| Time to peak | months | MSD assumption | | |
| Tx Uptake Rate | | | 90%, 90%, 90%, 90%, 90%, 90% Year 1-6 | Table 14, Nivolumab PSD November 2021/March 2022 (PBAC comment) |
| Time on treatment (ToT) | 8.7 months | Based on trial-specific KM curve, blended across groups | 11.6 Months 50.27 weeks | N-811, Janjigian, YY et al. Lancet 2023; 402: 2197–208 |
| Dosage Regimen | | | 200 mg Q3W | |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '4. Patients - T2a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '11. UCM_MSD Multicancer_ HER 2+ Gastric'.

The redacted values correspond to the following ranges:

† < 500

Public Summary Document – December 2025 PBAC Meeting

Table 24: Mesothelioma (KN483) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 12 Mesothelioma (KN483) | July Submission | | Proposed Submission | |
|-------------------------------|-----------------|----------------|--|---|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| New PD-(L)1 patients | █ ¹ | MSD assumption | █ ¹ | Department estimated |
| Treatment | | | | |
| Peak brand share | █% | MSD assumption | Year 1: █% Year 2: █% Year 3-6: █% | MSD assumption |
| Time to peak | █months | MSD assumption | Year 1: █0% Year 2: █% Years 3-6: █% | MSD assumption, for indications where there is another PD-(L)1 available on the PBS |
| Time on treatment (ToT) | | | 18.86 weeks | NIVO+IPI reported in DUSC report |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '5. Patients - T2b'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '12. UCM_MSD Multicancer_Second to Market'.

The redacted values correspond to the following ranges:

¹ < 500

Table 25: 1L Biliary (KN966) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 12 1L Biliary (KN966) | July Submission | | Proposed Submission | |
|-----------------------------|-----------------|----------------|---|---|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| New PD-(L)1 patients | █ ¹ | MSD assumption | █ ² | Department estimated |
| Treatment | | | | |
| Peak brand share | █% | MSD assumption | Year 1: █% Year 2: █% Year 3-6: █% | MSD assumption |
| Time to peak | █months | MSD assumption | Year 1: █% Year 2: █% Years 3-6: █% | MSD assumption, for indications where there is another PD-(L)1 available on the PBS |
| Time on treatment (ToT) | Not Specified | | 35.7 weeks | Durvalumab PSD July 2023 Table 7, p.12 |
| Dosage Regimen | Not Specified | | 200 mg Q3W | |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '5. Patients - T2b'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '12. UCM_MSD Multicancer Second to Market'.

The redacted values correspond to the following ranges:

¹ < 500

² 500 to < 5,000

Public Summary Document – December 2025 PBAC Meeting

Table 26: Merkel CC (KN913) Comparison of the key inputs and assumptions for the July 2025 vs resubmission.

| Model 12 Merkel CC (KN913) | July Submission | | Proposed Submission | |
|----------------------------|-----------------|----------------|--|---|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| New PD-(L)1 patients | 1 | MSD assumption | 1 | Department estimated |
| Treatment | | | | |
| Peak brand share | % | MSD assumption | Year 1: % Year 2: % Year 3-6: % | MSD assumption |
| Time to peak (months) | - | MSD assumption | Year 1: % Year 2: % Years 3-6: % | MSD assumption, for indications where there is another PD-(L)1 available on the PBS |
| Time on treatment (ToT) | | | 35.43 weeks | Avelumab DUSC report (ToT) w/o tx breaks) p. 2 |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '5. Patients - T2b'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '12. UCM_MSD Multicancer_Second to Market'.

The redacted values correspond to the following ranges:

1 < 500

Table 27: dMMR 1L Endo (KN868) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 12 dMMR 1L Endo (KN868) | July Submission | | Proposed Submission | |
|-------------------------------|-----------------|----------------|--|---|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| New PD-(L)1 patients | 1 | MSD assumption | 1 | Department estimated |
| Treatment | | | | |
| Peak brand share | % | MSD assumption | Year 1: % Year 2: % Year 3-6: % | MSD assumption |
| Time to peak (months) | - | MSD assumption | Year 1: % Year 2: % Years 3-6: % | MSD assumption, for indications where there is another PD-(L)1 available on the PBS |
| Time on treatment (ToT) | | | 88.94 weeks | Assumed that PEM would be the same as mean ToT reported in Dostarlimab |
| Dosage Regimen | | | 200 mg Q3W | |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '5. Patients - T2b'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '12. UCM_MSD Multicancer_Second to Market'.

The redacted values correspond to the following ranges:

1 < 500

Public Summary Document – December 2025 PBAC Meeting

Table 28: 1L HER2- Gastric (KN859) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 12 1L HER2- Gastric (KN859) | July Submission | | Proposed Submission | |
|-------------------------------------|-----------------|----------------|--|---|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| New PD-(L)1 patients | 1 | MSD assumption | 1 | Department estimated |
| Eligibility based on AIHW incidence | | | % | MSD assumption |
| Treatment | | | | |
| Peak brand share | % | MSD assumption | Year 1: % Year 2: % Year 3-6: % | MSD assumption |
| Time to peak | months | MSD assumption | Year 1: % Year 2: % Years 3-6: % | MSD assumption, for indications where there is another PD-(L)1 available on the PBS |
| Time on treatment (ToT) | | | 32.88 weeks | Pembrolizumab Nov 2021 with Mar 2022 Addendum Table 13 p. 27 |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '5. Patients - T2b'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '12. UCM_MSD Multicancer_Second to Market'.

The redacted values correspond to the following ranges:

¹ 500 to <5,000

Removal of Once in a Lifetime (Model 13)

- 7.16 There are 7 indications in the proposal for the removal of the once-in-a-lifetime restriction for pembrolizumab.
- 7.17 An epidemiological approach was used to estimate financial implications associated with removing the once-in-a-lifetime restriction for pembrolizumab. The methods and assumptions used are described in the resubmission. The structure and arithmetic of the models were checked by the Department.
- 7.18 In the resubmission, the Sponsor has stated that “It is assumed that only indications with a PD-(L)1 available in earlier stages or lines of therapy are affected by allowing retreatment.”
- 7.19 Overall, the total net cost to the PBS and RPBS is 49 per cent higher in the resubmission compared to the July 2025 submission from the revised modelling (see Table 29 below).

Public Summary Document – December 2025 PBAC Meeting

Table 29: Removal of Once in a Lifetime: Comparison of the utilisation estimates for the resubmission versus the July 2025 submission (Tier 2, Model 13)

| Indication | Parameter | July 2025 Submission | | | | | | | Current Submission | | | | | | | Difference | % difference |
|---|-----------|----------------------|--------------|--------------|--------------|--------------|--------------|-----------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|--------------|
| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 1-6 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 1-6 | | |
| Renal Cell Carcinoma (KN581) | Patient # | 1 | 8 | 13 | 14 | 15 | 15 | 66 | 5 | 3 | 18 | 23 | 27 | 31 | 116 | 76% | |
| | Script | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | -80% | |
| | Net (\$m) | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | 151% | |
| Triple Negative Breast Cancer (KN355) | Patient # | 43 | 52 | 53 | 54 | 55 | 55 | 313 | 5 | 13 | 18 | 21 | 24 | 28 | 109 | -65% | |
| | Script | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ³ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ³ | -42% | |
| | Net (\$m) | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | -55% | |
| Cervical Cancer (KN826) | Patient # | - | 10 | 32 | 36 | 38 | 56 | 172 | 7 | 21 | 31 | 38 | 44 | 56 | 197 | 15% | |
| | Script | - | ¹ | ¹ | ¹ | ¹ | ³ | ³ | ¹ | ¹ | ³ | ³ | ³ | ³ | ³ | 68% | |
| | Net (\$m) | - | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | 278% | |
| Endometrial Cancer (KN775) | Patient # | 65 | 150 | 192 | 205 | 214 | 216 | 1,040 | 182 | 198 | 204 | 209 | 215 | 220 | 1,229 | 18% | |
| | Script | ³ | ³ | ³ | ³ | ³ | ³ | ⁴ | ³ | ³ | ³ | ³ | ³ | ³ | ⁴ | 56% | |
| | Net (\$m) | ² | ² | ² | ² | ² | ² | ⁵ | ² | ² | ² | ² | ² | ² | ⁵ | 21% | |
| Urothelial Cancer (EV-302) | Patient # | 8 | 22 | 36 | 39 | 40 | 41 | 186 | 33 | 84 | 102 | 126 | 140 | 151 | 636 | 241% | |
| | Script | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ³ | ³ | ³ | ³ | ³ | ³ | ³ | ⁴ | 470% | |
| | Net (\$m) | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ³ | 341% | |
| Esophageal Cancer, Gastroesophageal (KN590, KN811) | Patient # | 14 | 14 | 15 | 16 | 12 | 13 | 84 | 5 | 12 | 16 | 18 | 20 | 22 | 92 | 9% | |
| | Script | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ³ | 133% | |
| | Net (\$m) | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | 80% | |
| Non-Small Cell Lung Cancer (KN189, KN407, KN042, KN024) | Patient # | 68 | 70 | 73 | 75 | 77 | 79 | 443 | 59 | 60 | 62 | 63 | 64 | 66 | 375 | -15% | |
| | Script | ³ | ³ | ³ | ³ | ³ | ³ | ³ | ³ | ³ | ³ | ³ | ³ | ³ | ³ | -32% | |
| | Net (\$m) | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | ² | -21% | |
| Total net PBS/RPBS cost (\$M): | | | | | | | | \$⁶ | | | | | | | | \$⁷ | 49% |

Source:
 Utilisation and cost model for the July 2025 submission (version 30 May 2025). 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx'
 Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025) - Model 13. The above figures reflect the corrections made by DUS during the review as described in Table 30 below.

The redacted values correspond to the following ranges:

- ¹ < 500
- ² \$0 to < \$10 million
- ³ 500 to < 5,000
- ⁴ 10,000 to < 20,000
- ⁵ \$20 million to < \$30 million
- ⁶ \$30 million to < \$40 million
- ⁷ \$50 million to < \$60 million
- ⁸ \$10 million to < \$20 million

Public Summary Document – December 2025 PBAC Meeting

7.20 The structural or arithmetic errors that were corrected during the review by the Drug Utilisation Section are detailed in Table 30.

Table 30: Structure and arithmetic errors corrected during DUS review

| Model # | Indication | Issue | Correction Made | Source |
|---------|----------------------------|---|--|---------------------------------|
| 13 | Urothelial Cancer (EV-302) | Correction to arithmetic (incorrect cell reference). <i>The Proportion who are eligible for 1L treatment assumption applied █%.</i> | Updated to █% based on the Sponsor's proposal. | 10. Registry Population Row 221 |
| | | Correction to arithmetic. Class share (█%) * Brand share (█%) value applied was █%. | Product of █% * █% = █%. Updated accordingly. | 10. Registry Population Row 237 |
| | | Correction to arithmetic. (incorrect cell reference). Second year following CCRT formula applies the population from the wrong year. | Updated to apply the population from the correct year. | 10. Registry Population Row 342 |
| | | Correction to arithmetic (incorrect cell reference). <i>Referenced 6 month recurrence following surgery (Refractory to IO) (row 379) instead of No. of patients treated with adj NIVO each yr (row 337).</i> | Updated to apply the correct population source. | 10. Registry Population Row 382 |
| | | Correction to arithmetic. (incorrect cell reference). Second year following surgery formula applies the population from the wrong year. | Updated to apply the population from the correct year. | 10. Registry Population Row 383 |

7.21 The Key inputs and assumptions used to develop the utilisation estimates for each of the future indications in the resubmission are compared to the July 2025 submission in Table 31 - Table 37 below.

Table 31: RCC (KN581) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 13 Renal Cell Carcinoma (KN581) | July Submission | | Proposed Submission | |
|---|--------------------------|----------------|------------------------------------|---|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| Newly Recurrent with Metastatic Disease | █ | MSD assumption | 671 | KNA18 Costing Utilisation Model |
| Estimated 6 month recurrence following surgery (Refractory to IO) | | | █% | MSD assumption |
| Proportion of patients that develop distant metastasis over 6 years | | | █%, █%, █%, █%, █%, █% Year 1-6 | MSD assumption |
| Eligibility | | | | |
| Intermediate/Poor | █% | MSD assumption | 77% | Pembrolizumab March 2022 Table 17 p. 29 |
| Treatment | | | | |
| Peak PD-(L)1 Class share (1) | █% | MSD assumption | █% | MSD assumption |
| Peak brand share | █% | MSD assumption | █% | MSD assumption |
| Treatment uptake rate | █% | MSD assumption | █% | MSD assumption |
| Time on treatment (ToT) | 46 weeks 10.75 months | MSD assumption | 62.8 weeks | KN581 Pricing Package |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '6. Patients - T3a'.

Public Summary Document – December 2025 PBAC Meeting

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '13. UCM_MSD Multicancer_Removal of OIAL'.

The redacted values correspond to the following ranges:

¹ 500 to < 5,000

Table 32: TNBC (KN355) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 13 Triple Negative Breast Cancer (KN355) Parameter | July Submission | | Proposed Submission | |
|--|-------------------------|----------------|--|--|
| | Value | Source | Value | Source |
| Newly Recurrent with Metastatic Disease | ¹ | MSD assumption | 1,297 | KN522 Costing Utilisation Model |
| Decrease in Recurrence from Early Stage | | MSD assumption | 0.8% | MSD assumption |
| Proportion of patients develop distant metastasis over 6 years | | | Year 1: % Year 2: % Year 3: % Year 4: % Year 5: % Year 6: % | MSD assumption |
| Eligibility | | | | |
| Testing rate | % | MSD assumption | 95% | Pembrolizumab PSD March 2023- Accepted by PBAC and DoH. Table 13 p. 28 |
| CPS>10 prevalence rate | % | MSD assumption | 38% | Pembrolizumab PSD March 2023- Accepted by PBAC and DoH. Table 13 p. 29 |
| ECOG PS 0-1 | | | % | MSD assumption |
| Treatment | | | | |
| Peak PD-(L)1 Class share (1) | % | MSD assumption | % | MSD assumption |
| Peak brand share | % | MSD assumption | % | MSD assumption |
| Treatment uptake rate | % | MSD assumption | % | MSD assumption |
| Time on treatment (ToT) | 3.6 months (15.6 weeks) | MSD assumption | 22.75 weeks | KN355 Pricing Package (45.5 weeks). Halved ToT (applied 22.75 wks) based on SL feedback advising low threshold to switch to 2L sacituzumab govitecan |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '6. Patients - T3a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '13. UCM_MSD Multicancer_Removal of OIAL'.

The redacted values correspond to the following ranges:

¹ 500 to < 5,000

Public Summary Document – December 2025 PBAC Meeting

Table 33: Cervical Cancer (KN826) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 13 Cervical Cancer (KN826) | July Submission | | Proposed Submission | |
|---|-------------------------|----------------|--|------------------------------|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| Newly Recurrent with Metastatic Disease (average) | 1 [†] | MSD assumption | 248 | KNA18 Cost Utilisation Model |
| Estimated 6 month recurrence following surgery (Refractory to IO) | | | % | MSD assumption |
| Proportion of patients develop distant metastasis over 6 years | | | Year 1: % Year 2: % Year 3: % Year 4: % Year 5: % Year 6: % | MSD assumption |
| Eligibility | | | | |
| Proportion who are ECOG PS 0-1 | | | % | MSD assumption |
| Treatment | | | | |
| Peak PD-(L)1 Class share | % | MSD assumption | % | MSD assumption |
| Peak brand share | % | MSD assumption | % | MSD assumption |
| Treatment uptake rate | % | MSD assumption | % | MSD assumption |
| Time on treatment (ToT) | 9.9 months (42.9 weeks) | MSD assumption | 22.75 weeks | KN581 Pricing Package |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '6. Patients - T3a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '13. UCM_MSD Multicancer_Removal of OIAL'.

The redacted values correspond to the following ranges:

[†] < 500

Table 34: Endometrial Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 13 Cervical Cancer (KN826) | July Submission | | Proposed Submission | |
|---|-----------------|----------------|---------------------|-----------------------|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| Newly Recurrent with Metastatic Disease | 1 [†] | MSD assumption | 520 | Derived from UCM 7+8 |
| Eligibility | | | | |
| Testing rate | % | MSD assumption | | |
| dMMR prevalence | % | MSD assumption | | |
| pMMR prevalence | % | MSD assumption | | |
| Receiving 2L PEM+LEN | | | % | MSD assumption |
| Treatment | | | | |
| dMMR peak PD-(L)1 Class share | % | MSD assumption | | |
| pMMR peak PD-(L)1 Class share | % | MSD assumption | | |
| Peak PD-(L)1 Class share | | | % | MSD assumption |
| Peak brand share | | | % | MSD assumption |
| Time on treatment (ToT) dMMR | 14.9 months | MSD assumption | 44.1 weeks | KN775 Pricing Package |
| Time on treatment (ToT) pMMR | 11.2 months | MSD assumption | | |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '6. Patients - T3a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '13. UCM_MSD Multicancer_Removal of OIAL'.

The redacted values correspond to the following ranges:

Public Summary Document – December 2025 PBAC Meeting

¹ < 500

Table 35: UC (EV-302) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 13 UC (EV-302) | July Submission | | Proposed Submission | |
|---|----------------------------|----------------|-------------------------------|---------------------------------------|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| Newly Recurrent with Metastatic | ¹ | MSD assumption | 721 | KN522 Costing Utilisation Model |
| Decrease in Recurrence from Early | | | % | MSD assumption |
| Proportion of patients that develop distant metastasis over 6 years | | | %, %, %, %, %, % Years 1-6 | MSD assumption |
| Eligibility | | | | |
| 1L Treatment | | | % | MSD assumption |
| Treatment | | | | |
| Peak PD-(L)1 Class share | % | MSD Assumption | % | MSD assumption |
| Peak brand share | % | MSD Assumption | % | MSD assumption |
| Treatment uptake rate | % | MSD Assumption | % | MSD assumption |
| Time on treatment (ToT) | 8.7 Months (37.7 weeks) | MSD Assumption | 51.42 weeks | Paragraph 6.59 enfortumab vedotin PSD |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '6. Patients - T3a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '13. UCM_MSD Multicancer_Removal of OIAL'.

The redacted values correspond to the following ranges:

¹ 500 to < 5,000

Table 36: Gastroesophageal (KN590/811) Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 13 Esophageal Cancer, Gastroesophageal (KN590, KN811) | July Submission | | Proposed Submission | |
|--|-----------------|----------------|--------------------------------|--|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| PD-(L)1 experienced patients | ¹ | MSD assumption | 412 | Nivolumab July 2022 Table 15 p29 |
| Decrease in Recurrence from Early | | | % | MSD assumption |
| Proportion of patients that develop distant metasis over 6 years | | | %, %, %, %, %, % % Year 1-6 | MSD assumption |
| Eligibility | | | | |
| ECOG 0 to 1 | | | % | MSD assumption |
| Treatment | | | | |
| Peak PD-(L)1 Class share (1) | % | MSD assumption | % | MSD assumption |
| Peak brand share | % | MSD assumption | % | MSD assumption |
| Treatment uptake rate | % | MSD assumption | % | MSD assumption |
| Time on treatment (ToT) | | | 32.88 weeks | Pembrolizumab Nov 2021 with Mar 2022 Addendum Table 13 p. 27 |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '6. Patients - T3a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '13. UCM_MSD Multicancer_Removal of OIAL'.

Public Summary Document – December 2025 PBAC Meeting

The redacted values correspond to the following ranges:

¹ 500 to < 5,000

Table 37: NSCLC Comparison of the key inputs and assumptions for the July 2025 vs resubmission

| Model 13 NSCLC (KN189/407/042/024) | July Submission | | Proposed Submission | |
|--|-----------------|----------------|---------------------|-----------------------|
| Parameter | Value | Source | Value | Source |
| Population | | | | |
| Patients treated with PD-(L)1 in early stage NSCLC in 2024 | █ ¹ | MSD assumption | 296 | Calculated |
| Proportion Newly Recurrent Patients: PD-1 Experienced | | | █% | MSD assumption |
| Eligibility | | | | |
| 1L NSCLC therapy (non-squamous/squamous) | | | █% | MSD assumption |
| Treatment | | | | |
| Peak PD-(L)1 Class share (1) | █% | MSD assumption | █% | MSD assumption. |
| Peak brand share | █% | MSD assumption | █% | MSD assumption. |
| Treatment uptake rate | █% | MSD assumption | █% | MSD assumption |
| Time on treatment (ToT) | Not Specified | | 38.5 weeks | NSCLC Pricing Package |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Source: Utilisation and cost model for the July 2025 'Pembro_Utilisation_Cost_Model_30MAY2025_circ.xlsx' (version 30 May 2025), sheets '6. Patients - T3a'.

Utilisation and cost model for the December 2025 resubmission (version 10 Oct 2025). '13. UCM_MSD Multicancer_Removal of OIAL'.

The redacted values correspond to the following ranges:

¹ < 500

Removal of 2 year stopping rule (Model 14)

7.22 The resubmission estimates the impact of removing the two-year stopping rule based on:

- the patient forecasts presented in the individual epidemiological models for the future listings; and
- for the current listings where utilisation was projected using a market share approach, the number of patients is estimated by dividing the total number of scripts by the calculated number of scripts per patient for each indication.

7.23 The July 2025 submission included patients with TMB-H and MSI-H pan tumours. Patients with these pan tumours, as well as patients with melanoma and rare cancers, are excluded from the financial estimates presented in the resubmission as the stopping rule is not considered to have a meaningful impact for these patient groups.

7.24 Refer to Table 38 below for a comparison of the methods to estimate the additional time on treatment beyond two years presented in the July 2025 submission versus the resubmission. As for the July 2025 resubmission, real-world data from a French National Health Insurance database, including patients with advanced lung cancer, is used to estimate the proportion of patients who are supplied pembrolizumab beyond two years (Rousseau et al., 2024). The study found 4.3 per cent of patients received treatment for more than 29 months with a median treatment time of 33.2

Public Summary Document – December 2025 PBAC Meeting

months. The median time on treatment for the current PBS listings of pembrolizumab was derived from previously accepted estimates for these indications, calculated as 10.8 months. A weighted time on treatment for the future and current listings was calculated as: $(95.7\% \times 10.8m) + (4.3\% \times 33.2m) = 11.8$ months. The additional months of treatment beyond two years was estimated to be 0.96.

7.25 Table 39 presents a comparison of the utilisation for the July 2025 submission versus the resubmission. The revised modelling results in a net cost to the PBS and RPBS that is around 41 per cent lower than the July 2025 submission (six-year net cost of \$80 million to < \$90 million versus \$100 million to < \$200 million).

Table 38: Comparison of assumptions used in the July 2025 versus resubmission for use beyond 2 years to estimate the number of eligible and treated patients

| Parameter | July Submission | | Proposed Submission | |
|--|-----------------|-----------------------------------|---------------------|---|
| | Value | Source | Value | Source |
| Population | | | | |
| Patients Currently listed (excluding melanoma) (average ¹) | 7 | MSD assumption | 6 | Calculated. UCM_MSD Multicancer_Current, Sheet '3a. Scripts - proposed' |
| PBAC recommended (average ¹) | | | 6 | UCM_MSD Multicancer_PBAC Recommended, Sheet '2a. Patients - incident' |
| Ovarian (average ¹) | 5 | July submission 4. Patients - T2a | 5 | UCM_MSD Multicancer_Ovarian, Sheet '2a. Patients - incident' |
| RCC, fav risk and ncc (average ¹) | 5 | July submission 4. Patients - T2a | 5 | UCM_MSD Multicancer_RCC, Sheet '2a. Patients - incident' |
| 1L UC (average ¹) | 6 | July submission 4. Patients - T2a | 6 | UCM_MSD Multicancer_1L UC, Sheet '2a. Patients - incident' |
| pMMR 1L Endo (average ¹) ² | | | 5 | UCM_MSD Multicancer_pMMR 1L Endo, Sheet '2d. Patients - DTG' |
| HCC (average ¹) ³ | | | 5 | UCM_MSD Multicancer_HCC, Sheet '2d. Patients - DTG' |
| HER 2+ Gastric (average ¹) | 5 | July submission 4. Patients - T2a | 5 | UCM_MSD Multicancer_HER 2+ Gastric, Sheet '2a. Patients - incident' |
| Second to market (average ¹) | 6 | July submission 4. Patients - T2a | 6 | UCM_MSD Multicancer_Second to Market, Sheet '2a. Patients - incident' |
| TMB-H pan tumour (average ¹) ⁴ | 5 | July submission 4. Patients - T2a | | |
| MSI-H pan tumour (average ¹) ⁴ | 5 | July submission 4. Patients - T2a | | |
| Treatment | | | | |
| Proportion of patients with > 2year ToT | 4.3% | Rousseau 2024 | 4.3% | Rousseau 2024 |
| Proportion of patients with < 2year ToT | 95.7% | Rousseau 2024 | 95.7% | Rousseau 2024 |
| Median ToT for patients receiving treatment > 2year, months | 33.2 | Rousseau 2024 | 33.2 | Rousseau 2024 |
| Median ToT across metastatic indications (excl. adv melanoma) (months) | 9 | MSD assumption | 10.8 | Calculated. Median time on treatment for currently listed converted to months |
| ToT (adjusted) | 10.0 | Calculated | 11.8 | Calculated |
| Additional months on treatment | 1.04 | Calculated | 0.96 | Calculated |
| Scripts / treatment | | | 15.64 | Calculated |
| Dosage Regimen | | | 200 mg Q3W | MSD assumption |

Note: ToT, time on treatment.

Public Summary Document – December 2025 PBAC Meeting

- ¹ Based on an average of the patient forecast over 6 years.
- ² July submission included pMMR 1L Endo in Second to Market.
- ³ New indications included in resubmission.
- ⁴ Excluded in the resubmission.

The redacted values correspond to the following ranges:

- ⁵ < 500
- ⁶ 500 to < 5,000
- ⁷ 5,000 to < 10,000

Table 39: Comparison of the utilisation forecasts for use beyond 2 years presented in the July 2025 submission versus the resubmission

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Years 1-6 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Patient forecast | | | | | | | |
| July 2025 submission | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ² |
| Resubmission | ¹ | ¹ | ¹ | ¹ | ¹ | ¹ | ³ |
| Difference (%) | -14.2% | -20.6% | -17.2% | -17.7% | -16.8% | -16.8% | -17.3% |
| Prescription forecast | | | | | | | |
| July 2025 submission | ⁴ | ⁴ | ⁴ | ⁴ | ⁴ | ⁴ | ⁵ |
| Resubmission | ¹ | ¹ | ¹ | ⁴ | ⁴ | ⁴ | ² |
| Difference (%) | -21.0% | -26.9% | -23.7% | -24.2% | -23.4% | -23.4% | -23.8% |
| Net PBS and RPBS expenditure (effective prices) | | | | | | | |
| July 2025 submission | ⁶ | ⁷ | ⁷ | ⁷ | ⁷ | ⁷ | ⁸ |
| Resubmission | ⁶ | ⁶ | ⁶ | ⁶ | ⁶ | ⁶ | ⁹ |
| Difference (%) | -38.9% | -43.5% | -41.0% | -41.4% | -40.7% | -40.7% | -41.1% |

The redacted values correspond to the following ranges:

- ¹ 5,000 to < 10,000
- ² 50,000 to < 60,000
- ³ 40,000 to < 50,000
- ⁴ 10,000 to < 20,000
- ⁵ 70,000 to < 80,000
- ⁶ \$10 million to < \$20 million
- ⁷ \$20 million to < \$30 million
- ⁸ \$100 million to < \$200 million
- ⁹ \$80 million to < \$90 million

Rare Cancers (Model 15)

- 7.26 The utilisation of pembrolizumab for rare cancers was not estimated in the July 2025 submission.
- 7.27 The department has checked and confirmed the methods and data sources for the assumptions used to derive the forecasted utilisation of pembrolizumab for rare cancers described in Table 4-16 of the resubmission.
- 7.28 The number of incident patients with rare cancer is sourced from the Australian Institute of Health and Welfare (AIHW) Cancer Australia Overview (2024). This source was accepted for the September 2025 recommendation for nivolumab (Public Summary Document nivolumab, July and September 2025, Table 10). In addition to patients with a rare cancer (n=19,861), the resubmission also includes patients with less common cancer (n=20,371) and unknown primary cancer (n=2,630) in the eligible population.

Public Summary Document – December 2025 PBAC Meeting

- 7.29 Mortality is used as a surrogate for the assumption of the proportion of patients with an advanced or metastatic rare, less common or unknown primary cancer. The percentage of all deaths in 2024 that were rare plus less common cancer patients was 30.5%. The recommendation for nivolumab in September 2025 included an assumption that 47.2 per cent of rare cancers are regional or metastatic (Public Summary Document nivolumab, July and September 2025, Table 10).
- 7.30 To derive the number of patients supplied pembrolizumab, the resubmission assumes that:
- patients would have an ECOG performance status of 0-1 (█ per cent);
 - patients would have prior therapy before immuno-oncology (65 per cent, based on De Heus et al. (2021) finding █ per cent of rare cancer patients had two or more types of treatment); and
 - █ per cent of patients would elect immuno-oncology and █ per cent of these patients would be supplied pembrolizumab.
- 7.31 For the September 2025 recommendation for nivolumab, PBAC accepted the assumptions based on data from Omico that 51.64 per cent of rare cancer patients would have a sub type of cancer suitable for immuno-oncology and 18.52 per cent of patients would be eligible for treatment (Public Summary Document nivolumab, July and September 2025, Table 10).

PBS Medicines likely to be affected

- 7.32 This section outlines the PBS medicines that will likely be replaced by listing pembrolizumab on the PBS for the indications included in this proposal.
- 7.33 For indications not yet listed on the PBS, alternative treatments were identified based on currently available PBS therapies, past PBAC decisions, and EviQ guidelines and are described in the resubmission. The structure and arithmetic of the models that included affected medicines were checked by the Department.
- 7.34 Overall, based on the published prices, the total net reduction in cost to the PBS and RPBS is provided in Table 40 below. However, this will reduce substantially once the effective prices are used given that several of the affected medicines have a Special Pricing Arrangement (SPA) in place.

Public Summary Document – December 2025 PBAC Meeting

Table 40: Reduced cost to the PBS/RPBS for affected medicines

| Affected medicine | Year 1 (\$) | Year 2 (\$) | Year 3 (\$) | Year 4 (\$) | Year 5 (\$) | Year 6 (\$) | Years 1-6 (\$) |
|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|
| Nivolumab | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cemiplimab | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cisplatin | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Gemcitabine | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cabozantinib | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Sunitinib | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ipilimumab | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Avelumab | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Durvalumab | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Dostarlimab | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Sacituzumab govitecan | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total net PBS/RPBS | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Source: UCM_MSD Multicancer_Net Impact, Sheet 'Impact – affected (eff)', Row 23-34. The above figures reflect the corrections made by DUS during the review as described in Table 41 below.

The redacted values correspond to the following ranges:

¹ Net cost saving

7.35 The structural or arithmetic errors that were corrected, where models included affected medicines, during the review by the Drug Utilisation Section are detailed in Table 41.

Public Summary Document – December 2025 PBAC Meeting

Table 41: Structure and arithmetic errors corrected during DUS review

| Model # | Indication | Issue | Correction Made | Source |
|---------|---------------------------|---|---|--|
| 5 | TMB-H (KN158) | Correction to Structure. Duration was applied to the population (DTG) and the Dosing Regimen (4a Scripts). | Removed the adjustment made to the dosing regimen. | 4a. Scripts – affected Section 3, row 105, 106 |
| 6 | MSI-H (KN158/164) | Correction to Structure. Duration was applied to the population (DTG) and the Dosing Regimen (4a Scripts). | Removed the adjustment made to the dosing regimen. | 4a. Scripts – affected Section 3, row 105, 106 |
| 7 | RCC | Correction to dosing calculation. Dosing was presented in months (30 doses per month). | Dosing has been corrected to 7 doses per week. | 4a. Scripts – affected Section 4, Row 105 |
| | | Correction to dosing calculation. Dosing was presented in months (21 doses per month). | Dosing has been corrected to 4.67 doses per week (1 dose daily for 4 weeks followed by 2-week break). | 4a. Scripts – affected Section 4, Row 106 |
| 8 | UC | Correction to Structure. Duration was applied to the population (DTG) and the Dosing Regimen (4a Scripts). | Removed the adjustment made to the dosing regimen. | 4a. Scripts – affected Section 3, row 105, 106 |
| 12 | 1L HER2 – Gastric (KN859) | Correction to dosing calculation. Durvalumab dosing is Q3W for the first 8 weeks and Q4W onwards. | Updated to 8 and 27.7 weeks for initiating and continuing respectively. | 2d. Patients – DTG DTG 5 |
| | | Correction to structure. Avelumab was linked to the incorrect DTG (linked to Biliary Tract Cancers). | Updated from DTG 5 to DTG 7 | 4a. Scripts – affected Section 3, row 107 |
| | | Correction to structure. Durvalumab was linked to the incorrect DTG (linked to Merkel cell Carcinoma). | Updated from DTG 7 to DTG 5 | 4a. Scripts – affected Section 3, row 108 |
| | | Correction to pricing calculation. Ipilimumab and Avelumab pricing calculations considered weight-based dosing using partial vials. | Updated calculation method using integer vial numbers. | 4b. Impact - affected (pub) and 4c. Impact - affected (eff), Section 3, rows 275 & 276 |
| 13 | OIAL | Correction to Structure. Duration was applied to the population (DTG) and the Dosing Regimen (4a Scripts). | Removed the adjustment made to the dosing regimen. | 4a. Scripts – affected Section 3, row 107, 108 |
| 15 | Rare | Correction to Structure. Duration was applied to the population (DTG) and the Dosing Regimen (4a Scripts). | Removed the adjustment made to the dosing regimen. | 4a. Scripts – affected Section 3, row 105, 106 |

Net prescription processing changes for the DHS

7.36 The net changes to prescriptions captures medicines with increased use: pembrolizumab, lenvatinib and enfortumab vedotin; and medicines with decreased use: nivolumab, cemiplimab, cisplatin, gemcitabine, cabozantinib, sunitinib,

Public Summary Document – December 2025 PBAC Meeting

ipilimumab, avelumab, durvalumab, dostarlimab and sacituzumab govitecan as detailed in Table 42 below.

Table 42: Net prescription processing changes

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 1-6 |
|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Net change in PBS | █ ³ | █ ⁴ | █ ⁴ | █ ⁴ | █ ⁴ | █ ⁴ | █ ⁵ |
| Net change in RPBS | █ ¹ | █ ¹ | █ ¹ | █ ¹ | █ ¹ | █ ¹ | █ ² |
| Net change in scripts | █ ⁴ | █ ⁴ | █ ⁴ | █ ⁴ | █ ⁴ | █ ⁴ | █ ⁵ |

Source: UCM_MSD Multicancer_Net Impact, Sheet 'Net changes - SA, Row 14-27. The above figures reflect the corrections made by DUS during the review.

The redacted values correspond to the following ranges:

¹ 500 to < 5,000

² 10,000 to < 20,000

³ 90,000 to < 100,000

⁴ 100,000 to < 200,000

⁵ 600,000 to < 700,000

Net changes to MBS items

7.37 This proposal includes changes to the MBS administration fee item (13950), which was applied to all infusion therapies.

7.38 The net cost to the MBS is summarised below in Table 43, which is mostly driven by the administration fees associated with the increased use of pembrolizumab.

Table 43: Net cost to the MBS

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 1-6 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| PBS | | | | | | | |
| Increased cost (\$million) | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ² |
| Decreased cost (\$million) | -\$█ ³ | -\$█ ³ | -\$█ ³ | -\$█ ³ | -\$█ ³ | -\$█ ³ | -\$█ ³ |
| Net cost (\$million) | \$█ ⁴ | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ⁵ |
| RPBS | | | | | | | |
| Increased cost (\$million) | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ |
| Decreased cost (\$million) | -\$█ ³ | -\$█ ³ | -\$█ ³ | -\$█ ³ | -\$█ ³ | -\$█ ³ | -\$█ ³ |
| Net cost (\$million) | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ | \$█ ⁴ |
| Net cost PBS / RPBS (\$million) | \$█ ⁴ | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ¹ | \$█ ⁵ |

Source: UCM_MSD Multicancer_Net Impact, Sheet 'Net changes - MBS, Row 13-23. The above figures reflect the corrections made by DUS during the review.

The redacted values correspond to the following ranges:

¹ \$10 million to < \$20 million

² \$100 million to < \$200 million

³ net cost saving

⁴ \$0 to < \$10 million

⁵ \$60 million to < \$70 million

8 Quality use of medicines

8.1 The sponsor proposed the following activities to support the potential broad listing:

- One-on-one interactions between MSD’s Medical Advisors / MSLs and Medical Oncologists both before and after the implementation of the new listing; and

- National- and state-based education events, including MSD’s annual Current Trends in Immuno-Oncology (CTIO) conference, which is attended by over 200 Australian Medical Oncologists (approximately 1 in 3 Medical Oncologists).

8.2 The following was also noted in the proposal:

“Assuming that the broad listing proposal is approved in November 2025 and in the process of implementation in early 2026, MSD intends to dedicate several sessions to this topic at the next CTIO event, which is planned for March 2026.

MSD will also develop written materials for Health Care Professional that clearly outline the clinical settings in which there is evidence to support the use of pembrolizumab.

Through both educational events and written resources, MSD will emphasise the intent of the listing, which is to improve equity of access in advanced and metastatic settings where there is a reasonable expectation of efficacy. The clear expectation is that clinicians will appropriately balance the potential efficacy benefits with risks of harm, noting that they may need to rely upon lower levels of evidence to support prescribing decisions in the context of rare and ultra-rare cancers where registrational studies do not exist.”

9 PBAC Outcome

- 9.1 The PBAC recommended under section 101(3) of the Act, a change to the circumstances under which pembrolizumab is made available as a pharmaceutical benefit under Part VII of the Act to expand its use for advanced and metastatic cancers. The PBAC is satisfied that the extended listing will provide, for some patients, a significant improvement in efficacy over alternate therapies (or watchful waiting). The PBAC’s recommendation for listing was based on, among other matters, its assessment that the listing would be cost-effective within the context of a Risk Sharing Arrangement (RSA), specifically where pembrolizumab is added to the same RSA with nivolumab and ipilimumab for advanced and metastatic cancers, and subject to the same pricing structure.
- 9.2 The PBAC welcomed the revised approach to the restriction criteria and noted this had largely addressed its concerns from the July 2025 submission, particularly regarding access for patients with rare cancers. The PBAC recalled it had recommended nivolumab ± ipilimumab for a broad listing for advanced and metastatic cancers in September 2025.
- 9.3 The PBAC noted there remained some minor differences between the proposed listing for pembrolizumab and the recommended listing for nivolumab ± ipilimumab. The PBAC considered it would be appropriate for both listings, if implemented, to be consistent. As such, the PBAC did not support the inclusion of additional clinical criteria for pembrolizumab as proposed in the submission and pre-PBAC response and recommend the same restriction criteria be applied as were recommended for nivolumab ± ipilimumab.

- 9.4 The PBAC noted a weighted price was proposed for the existing advanced/metastatic indications currently PBS-listed, as well as two indications (gastro-oesophageal cancer and cutaneous squamous cell carcinoma) that have a positive PBAC recommendation but are not yet implemented. The PBAC noted the weighted price would apply to estimated utilisation for the indications included in the calculation of the weighted price. This was intended to effectively maintain the existing prices for current listings and established cost-effective prices for indications where a recommendation has been made but not yet implemented. The PBAC considered this was appropriate.
- 9.5 The PBAC noted there was a significant increase in the modelled utilisation and financial impact in the current proposal compared to the July 2025 consideration. The PBAC considered that, given the level of uncertainty within the predicted utilisation, consideration of the overall financial impact across the broad listings was a relevant factor and the proposed additional financial impact in Tier 2 for pembrolizumab was substantial.
- 9.6 The PBAC considered that the models provided, after application of the amendments suggested by the Drug Utilisation Section, were suitable for informing Tier 1 of the RSA.
- 9.7 The PBAC noted the proposed modelling included some Tier 2 indications for which no additional utilisation was expected beyond that which was considered for nivolumab ± ipilimumab. In particular, it highlighted it expected pembrolizumab to substitute into the utilisation for rare cancers. The PBAC further noted that, in its pre-PBAC response, the sponsor removed pembrolizumab (in combination with Lenvatinib) in HCC from the modelling due to the interim analysis for LEAP-012 which did not achieve statistical significance for the primary endpoint of overall survival and was therefore expected to result in minimal uptake under the broad listing.
- 9.8 The PBAC noted the modelling did not differentiate within indications for components of utilisation for the advanced and metastatic setting versus early stage; and did not adequately account for some Tier 2 cancer indications which were not likely to be sensitive to immunotherapy and those cancers where treatment with medicines other than immune therapies were already reimbursed and standard of care. Furthermore, the Tier 2 indications did not account for the positive recommendations or reimbursements for other PD-1/PD-L1 inhibitors. For these reasons the uptake of pembrolizumab would be significantly less than estimated by the submission.
- 9.9 The PBAC considered it would be appropriate for pembrolizumab to join the RSA recommended for the nivolumab± ipilimumab broad listing in September 2025, should that recommendation proceed to listing, as there would be several indications, including a number which are already PBS-listed, where both pembrolizumab and nivolumab (+/- ipilimumab) would be treatment options in the same or similar population. Therefore, a shared RSA across the immunotherapies would more effectively manage the intended price discounts and total budget impact for the broader listings. The PBAC considered it would be appropriate for the RSA

caps, where established for nivolumab and ipilimumab, to be increased to account for pembrolizumab utilisation across existing/previously recommended (Tier 1) based on the provided modelling.

- 9.10 The PBAC considered the overall utilisation estimate informing Tier 2 of the RSA should be based on the recommended utilisation for nivolumab ± ipilimumab but that a small increase to the Tier 2 caps would be reasonable to account for any further utilisation following the entry of pembrolizumab. The PBAC considered that a number of adjustments were required to estimate the additional expenditure on pembrolizumab before the precise adjustment in the Tier 2 caps could be determined. These included:
- the removal of mesothelioma, first-line urothelial cancer and HER2- gastric cancer noting these were existing or recommended listings for nivolumab ± ipilimumab;
 - removal of the rare cancer population; and
 - removal of urothelial cancer from the retreated population.
 - the removal of indications which have already been reimbursed or received a positive recommendation for all brands of PD-L(1) inhibitors
 - the removal of indications where effective treatments is already reimbursed and standard of care. PD-L(1) inhibitors should not displace treatments which have proven to be effective.
 - the removal of indications where PBAC has already determined that treatment is not effective or cost effective.
 - removal of tumour types generally considered non-immunosensitive.
- 9.11 The PBAC considered any adjustment to the caps should ensure the overall intended price discounts were maintained.
- 9.12 The PBAC considered that the RSA cap rebate levels accepted for nivolumab ± ipilimumab should be maintained, ensuring that the same magnitude of price reduction is applied for broader use beyond existing/recommended listings.
- 9.13 The PBAC considered high-risk, locally advanced cervical cancer, recommended in March 2025, met the proposed restriction criteria for the broad listing and, as such would be appropriate to be included within the broad listing RSA.
- 9.14 The PBAC recalled there are outstanding recommendations for pembrolizumab that are not yet implemented that may have impacts on utilisation in the advanced and metastatic cancer setting. The PBAC considered it appropriate that any anticipated changes arising from those listings should be accounted for in the broad listing utilisation estimates informing the RSA.
- 9.15 The PBAC noted that the financial estimates included indications where pembrolizumab is used in combination with other medicines. The PBAC considered that these indications should only be considered for inclusion in the estimates for the

purposes of the RSA where the other component of the combination had a PBS listing that would allow such use.

- 9.16 The PBAC considered it would be appropriate for the Department to prepare a review of utilisation three years after implementation of a broad listing. The purpose of this review would be to assess whether the medicines were being used consistent with the intention of the listing and that utilisation was for indications where there was a reasonable expectation of clinical benefit. The PBAC noted that if there were significant utilisation above the estimates or indicators of high levels of inappropriate prescribing under the listing at that time, it may be necessary to make amendments to the restriction wording or authority level to address this.
- 9.17 The PBAC noted that high-quality QUM activities and strong prescriber engagement will be essential to ensuring the medicines are used as intended. Should both pembrolizumab and nivolumab ± ipilimumab broad listings progress, the PBAC stressed that clear alignment and a coordinated, conjoint approach between the sponsors will be critical to supporting appropriate use. The PBAC highlighted that such alignment, supported by collaboration with clinical and consumer organisations, will be necessary to deliver effective QUM and educational activities that reinforce the intended use of the listing.
- 9.18 The PBAC noted that pembrolizumab and nivolumab ± ipilimumab had been the focus to date of the proposals for a broad listing for PD-L(1) inhibitors largely owing to the extensive evidence accumulated for the drugs informing safety and efficacy across a broad domain of indications which was reflected in their registered indications in the Australian Register of Therapeutic Goods. The PBAC was open to considering additional PD-L(1) inhibitors seeking to join the broad listings in the future but considered that each drug would need to make a submission that justified the extent to which it could demonstrate efficacy, safety and cost-effectiveness in the broad setting.
- 9.19 The PBAC noted that this submission is not eligible for an Independent Review as it received a positive recommendation.

Outcome:

Recommended

10 Recommended listing

- 10.1 Add the following new listing and restriction to replace all current listings for pembrolizumab across all PBS indications in the metastatic or advanced settings:

| MEDICINAL PRODUCT Form | PBS item code | Max. Amount | No. of Rpts |
|---|------------------------|-------------|-------------|
| PEMBROLIZUMAB Injection | NEW1 (HS) NEW2 (HB) | 400mg | 7 |
| Available brands | | | |
| Keytruda (pembrolizumab 100 mg/4 ml injection, 4 ml vial) | | | |
| Restriction Summary / Treatment of Concept | | | |
| Category / Program: Section 100 – Efficient Funding of Chemotherapy Public/Private hospitals | | | |
| Prescriber type: Medical Practitioners | | | |
| Restriction type: Authority Required (STREAMLINED) [NEW] | | | |
| Administrative Advice: No increase in the maximum amount or number of units may be authorised. | | | |
| Administrative Advice: No increase in the maximum number of repeats may be authorised. | | | |
| Administrative advice: Special Pricing Arrangements apply. | | | |
| Indication: Immunotherapy sensitive advanced or metastatic cancer | | | |
| Clinical criteria: | | | |
| Patient must not have developed disease progression while receiving PBS-subsidised treatment with this drug for the condition which treatment was commenced for | | | |
| Treatment criteria | | | |
| Patient must be undergoing treatment with this drug administered once every 3 weeks - prescribe up to 7 repeat prescriptions; OR | | | |
| Patient must be undergoing treatment with this drug administered once every 6 weeks - prescribe up to 3 repeat prescriptions | | | |

These restrictions may be subject to further review. Should there be any changes made to the restriction the sponsor will be informed.

11 Context for Decision

The PBAC helps decide whether and, if so, how medicines should be subsidised through the Pharmaceutical Benefits Scheme (PBS) in Australia. It considers applications regarding the listing of medicines on the PBS and provides advice about other matters relating to the operation of the PBS in this context. A PBAC decision in relation to PBS listings does not necessarily represent a final PBAC view about the merits of the medicine or the circumstances in which it should be made available through the PBS. The PBAC welcomes applications containing new information at any time.

12 Sponsor's Comment

MSD welcomes the positive recommendation from the PBAC to broaden the Pharmaceutical Benefits Scheme (PBS) listing for pembrolizumab. MSD is working closely with the Department of Health and Aged Care to ensure that Australian patients with advanced or metastatic cancer have equitable access to pembrolizumab as soon as possible.