

Immutep Reports Promising New Data in Head and Neck Cancer at ESMO Immuno-Oncology 2024

- Data shows strong overall survival, progression-free survival, and durability from novel combination of efti in combination with pembrolizumab in difficult-to-treat head and neck cancer patients with PD-L1 CPS <1
- Positively, median overall survival (OS) has not yet been reached and the 12-month OS rate is 67%, both well above historical controls
- Complete response rate increases to 12.9% and 16.1%, according to RECIST 1.1 and iRECIST, respectively
- Treatment continues to be well tolerated

SYDNEY, AUSTRALIA – 12 December 2024 – <u>Immutep Limited</u> (ASX: IMM; NASDAQ: IMMP) ("Immutep" or "the Company"), a clinical-stage biotechnology company developing novel LAG-3 immunotherapies for cancer and autoimmune disease, today announces positive clinical results from Cohort B of the TACTI-003 (KEYNOTE-C34) Phase IIb trial. This study evaluates eftilagimod alpha (efti) in combination with MSD's (Merck & Co., Inc., Rahway, NJ, USA) anti-PD-1 therapy KEYTRUDA® (pembrolizumab) in first line recurrent/metastatic head and neck squamous cell carcinoma (1L HNSCC) patients with negative PD-L1 expression.

The new promising data presented by Martin Forster, M.D., Ph.D., at the ESMO Immuno-Oncology (IO) Annual Congress 2024 includes strong overall survival, progression-free survival, and durability. This adds to the high response rates and favourable safety data previously reported on 12 July 2024.

Prof. Martin Forster of the UCL Cancer Institute and University College London Hospital NHS Foundation Trust, London, UK, and TACTI-003 Investigator, stated, "The new survival and durability data, coupled with increasing complete responses, build on the strong response rates already established with this novel IO combination in head and neck squamous cell cancers with PD-L1 CPS <1. This difficult-to-treat disease places a high burden on patients who unfortunately have very limited treatment options that all include chemotherapy. Collectively, these impressive results build on the potential promise of efti to improve patient outcomes and expand populations that respond to anti-PD-1."

Results

Data as of the 31 October 2024 cut-off date in evaluable 1L HNSCC patients (N=31) whose tumours express PD-L1 below 1 (Combined Positive Score [CPS] <1) and who typically do not respond well to anti-PD-1 therapy alone shows:

- Positively, median overall survival (OS) has not yet been reached and the 12-month OS rate is 67%
- Promising progression-free survival (PFS) of 5.8 months
- Strong durability with interim median duration of response (DOR) of 9.3 months
- High 35.5% objective response rate (ORR) and 58.1% disease control rate (DCR), as reported on 12 July
- Complete response rate increases to 12.9% and 16.1%, according to RECIST 1.1 and iRECIST, respectively¹
- Efti in combination with pembrolizumab continues to be well-tolerated with no new safety signals

This data compares favourably to historical results from anti-PD-1 therapy alone in 1L HNSCC patients with PD-L1 CPS <1 including a 7.9-month median OS, 12-month OS rate of 39%, 2.1-month median PFS, 2.6-month median DOR, 5.4% ORR and 32.4% DCR with no complete responses²⁻³.



Marc Voigt, CEO of Immutep, noted, "Despite the significant progress of cancer immunotherapy over the past decade and the positive change in the therapeutic landscape it has brought to bear, head and neck cancer patients with PD-L1 expression of less than one continue to have limited treatment options that all include chemotherapy. We believe this data is an encouraging step in the right direction towards potentially bringing a new approach to this underserved population, representing up to 20% of patients with this difficult disease."

Next Steps

Patients with PD-L1 CPS <1 is an underserved patient population with limited treatment options. Immutep will continue to follow the maturing data from TACTI-003 and engage with regulatory authorities regarding potential paths forward.

The ESMO IO poster is attached and will be on the Posters & Publications section of Immutep's website.

KEYTRUDA[®] is a registered trademark of Merck Sharp & Dohme LLC, a subsidiary of Merck & Co., Inc., Rahway, NJ, USA.

About Immutep

Immutep is a clinical-stage biotechnology company developing novel LAG-3 immunotherapy for cancer and autoimmune disease. We are pioneers in the understanding and advancement of therapeutics related to Lymphocyte Activation Gene-3 (LAG-3), and our diversified product portfolio harnesses its unique ability to stimulate or suppress the immune response. Immutep is dedicated to leveraging its expertise to bring innovative treatment options to patients in need and to maximise value for shareholders. For more information, please visit <u>www.immutep.com</u>.

- 1. Complete response rate was 9.6%, according to RECIST 1.1 and iRECIST, respectively, at earlier cut-off date as previously reported on 12 July 2024
- Burtness, B. et al. Pembrolizumab Alone or With Chemotherapy for Recurrent/Metastatic Head and Neck Squamous Cell Carcinoma in KEYNOTE-048: Subgroup Analysis by Programmed Death Ligand-1 Combined Positive Score. Journal of Clinical Oncology 2022 40:21, 2321-2332. Note, the 5.4% ORR and 32.4% DCR are calculated from the 37 evaluable patients with CPS <1.
- Burtness B. et al. Abstract LB-258: Efficacy of first-line (1L) pembrolizumab by PD-L1 combined positive score <1, 1-19, and ≥20 in recurrent and/or metastatic (R/M) head and neck squamous cell carcinoma (HNSCC): KEYNOTE-048 subgroup analysis. Cancer Res 15 August 2020; 80 (16_Supplement): LB-258. https://doi.org/10.1158/1538-7445.AM2020-LB-258

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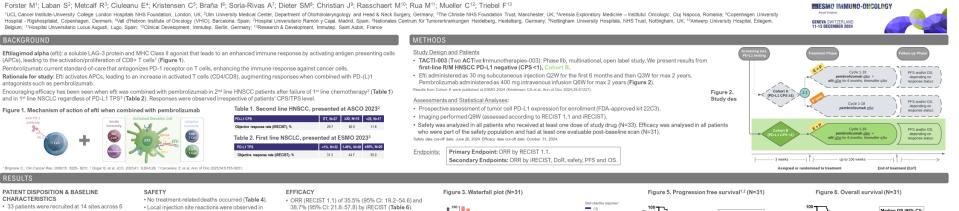
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This announcement was authorised for release by the Board of Immutep Limited.

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TACTI-003 Cohort B: Eftilagimod Alpha (Soluble LAG-3) and Pembrolizumab in First-Line Recurrent or Metastatic Head & Neck Squamous Cell Carcinoma with CPS <1



countries between April 2022 until October 2023. Median age was 64 years (range: 23-83) & 74.2% of patients were male. Of the patients with primary oropharyngeal tumours, 36.4% were HPV positive (Table 3).

Table 3. Baseline characteristics

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CHARACTERISTICS

Baseline parameters	N=31			
Median age, years (range)	64 (23-83)			
Female / Male, %	25.8 / 74.2			
ECOG 0 / 1, %	32.3 / 67.7			
Current / Ex-smoker / Non-smoker, %	25.8 / 61.3 / 12.9			
Primary turnour location, % Oral cavity Oropharynx Hypopharynx Larynx	29.0 35.5 3.2 32.3			
p16 (HPV) status ¹ Positive / Negative	36.4 / 63.6			
Disease status at study entry ² , % Primary only Primary + distant Distant only	22.6 12.9 64.5			
¹ In patients with primary oropharyngeal turnours only. ² Phrmary only: local religions at the site of primary turnor and possibly with or without cervical lymph nodes				
 25 patients discontinued treatment due to: disease progression (92.0%), adverse event 				

(3.2%) and physician decision (3.2%).

	SAFETY
	 No treatment-related deaths occurred (Table 4).
6	 Local injection site reactions were observed in
	18.2% of patients (all Grade 1).
	 The most frequent AEs were fatigue and nausea
	(Table 5).

Table 4 General overview of AFs (N=33)

Safety parameter ¹	N=33
Adverse reactions with fatal outcome?	0
Serious adverse reactions ²	0
Grade ≥3 adverse reactions ²	15.2
Adverse reactions leading to discontinuation of treatment ²	9.13
¹ AEs rated according to NCI CTCAE (v5.0), ² relationship to efit and/or pembrolizumab could not be ruled out ³ Immune thrombocytopenia (G4), Immune-mediated hepatitis (G4), obstruction (G4).	Laryngeal

Adverse event (PT) ¹	Any grade, %	Grade 3, %	Grade 4/5, %
Fatigue	21.2	NA	NA
Nausea	21.2	NA	NA
Weight decreased	18.2	NA	NA
Hypothyroidism	18.2	NA	NA
Constipation	18.2	NA	NA
Pyrexia	15.2	NA	NA
Arthralgia	15.2	NA	NA
GGT increased	15.2	3.0	NA
Diarrhoea	15.2	NA	NA
Anaemia	15.2	NA	NA

· Responses confirmed in 91% of cases with a confirmed ORR by RECIST 1.1 of 32.3% (95% CI: 16.7-51.4).

Responses were deep, had early onset (median time to response of 2.1 months) and included 4 confirmed complete responses by RECIST 1.1 (Figure 3).

With a median follow up of 16.4 months, median (m) PFS by RECIST 1.1 was 5.8 months with a 6-month PFS rate of 48.4% (Figure 5).

• mDoR by RECIST 1.1 was 9.3 months with 50% events 55% of patients on treatment >6 months and ~30% on treatment >12 months (Figure 4).

• mOS was not reached (Figure 6) and the 12-month survival rate was 66.8%

Table 6. Best objective response¹ (N=31)

Response	RECIST 1.1, %	iRECIST, %
Complete Response	12.9	16.1
Partial Response	22.6	22.6
Stable Disease	22.6	25.8
Progressive Disease	41.9	35.5
ORR ¹ ; [95% CI] ²	35.5 [19.2–54.6]	38.7 [21.8–57.8]
DCR; [95% CI] ²	58.1 [39.1–75.5]	64.5 [45.4–80.8]

SD...stable disease TPS...tumour proportion scor

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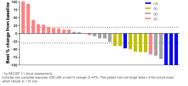


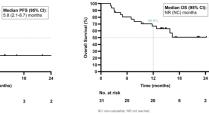
Figure 4. Swimmer plot (N=31)



50-40-30-20-10-

No. at risk

31 16



SUMMARY & CONCLUSION

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Time (mor

- Efti combined with pembrolizumab led to a high ORR (35.5% [95% CI: 19.2–54.6], and DCR (58.1% [95% CI: 39.1–75.5]) in this PD-L1 CPS <1 population.
- not vet reached, with 67% of patients alive at 12 months
- Conclusion: Results are promising (mature 12-month OS rate of 67%), especially when considering the expected efficacy of anti-PD-1 alone in this population. Late-

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¥ Death Remaining Discontinue

DISCLOSURES Diserting Aufor: Dr. Marin Forster. OCk-Anisory bardt: Baye, Marck, MSD, Takada, Ultrahuman, Transgane, Immutep, Angen, BMS, EQBS, Jansson, Oxford VacModay, Ph Regnerson and System, Beaverk grant: AnariZeneca (Inst.), Bothringer Ingelheim (Inst.), Marck Senson (Inst) and MSD Oxocology (Inst.). speaker: Roches, Achilles, Oxford VacModa, Apolomica, Taikada, Elipsis, Moderna, Essciencia, Immutep, ALXOncology: Genmb and Jan

