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Amivantamab in recurrent/metastatic head & neck squamous cell cancer (HNSCC) after disease progression on checkpoint inhibition and chemotherapy: Results from the phase lb/II OrigAMI-4 study

K.J. Harrington¹, A. Rosenberg², M-H. Yang³, J.L. Geiger⁴, M. Oliva Bernal⁵, M-J. Ahn⁶, S.M. Lim⁷, W. Ince⁸, A.K. Bhatia⁹, S. Sheth¹⁰, B. Keam¹¹, R. Metcalf¹², G. Molina Lores¹³, J. Curtin¹⁴, J. Xie¹⁵, M. Wade¹⁴, E. Yilmaz¹⁵, P. Kim¹⁴, M. Baig¹⁵, P.L. Swiecicki¹⁶

¹ Dept. of Radiotherapy and Imaging, The Institute of Cancer Research/Royal Marsden Hospital, London, United Kingdom, ² Department of Medicine, Section of Hematology and Oncology, University of Chicago, Chicago, IL, United States of America, ³ Division of Medical Oncology, Department of Oncology, Taipei Veterans General Hospital, Taipei, Taiwan, ⁴ Department of Hematology and Medical Oncology, Taussig Cancer Institute, Cleveland Clinic, Cleveland, OH, United States of America, ⁵ Institut Català d'Oncologia, Hospital Duran iReynals, Barcelona, Spain, ⁶ Division of Haematology-Oncology, Department of Medicine, Sungkyunkwan University School of Medicine, Samsung Medical Center, Seoul, Republic of Korea, ⁷ Severance Hospital, Yonsei University Health System, Seoul, Republic of Korea, ⁸ Oncology department, Addenbrooke's Hospital, Cambridge, United Kingdom, ⁹ Division of Oncology, Department of Medicine, Yale School of Medicine and Yale Cancer Center, New Haven, CT, United States of America, ¹⁰ Divison of Oncology, Department of Medicine, University of North Carolina, Chapel Hill, NC, United States of America, ¹¹ Department of Internal Medicine, Seoul National University Hospital, Seoul, Republic of Korea, ¹² Medical Oncology Dept., The Christie NHS Foundation Trust, Manchester, United Kingdom, ¹³ Medical Oncology, Vall d'Hebron University Hospital, Barcelona, Spain, ¹⁴ -, Johnson & Johnson, Spring House, PA, United States of America, ¹⁵ -, Johnson & Johnson, Raritan, NJ, United States of America¹⁶ Department of Medical Oncology, University of Michigan Rogel Cancer Center, Ann Arbor, MI, United States of America

Background

EGFR and MET overexpression occur in 80%–90% of HNSCC tumors. Amivantamab (ami) is an EGFR-MET bispecific antibody with immune cell-directing activity. We evaluated ami monotherapy in previously treated HPV-unrelated recurrent/metastatic (R/M) HNSCC.

Methods

OrigAMI-4 (NCT06385080) is assessing subcutaneous (SC) ami as monotherapy and in combination with other agents in participants (pts) with R/M HNSCC. Cohort 1 is evaluating ami monotherapy in HPV-unrelated R/M HNSCC previously treated with platinum-based chemotherapy and a PD-1/PD-L1 inhibitor. Prior anti-EGFR therapy is exclusionary. Primary endpoint is objective response rate (ORR) per RECIST v1.1.

Results

As of 6 May 2025 (median follow-up: 3.4 months [mo]; range, 0-11.8), 67 pts have received ami monotherapy. Median age was 66 years, 76% were male, 64% had ECOG performance status score of 1, and the most common site of metastasis was lung (62%). The efficacy-evaluable population consisted of 32 pts with ≥ 2 disease evaluations (or discontinued for any reason before any disease evaluation) with a median follow-up of 5.7 mo. Confirmed ORR was 41% (13/32); 1 complete response (CR), 12 partial responses (PR), 15 stable diseases (SD). Among pts with confirmed response, 85% (11/13) have ongoing responses and remain on treatment. Median duration of response was 7.2 mo (95% CI, 7.2-not estimable). Median time to initial response was 6.4 weeks (range, 5.7-18.3). Clinical benefit rate (CR + PR + durable SD) was 88% (28/32). Most common treatment-emergent AEs (TEAE; >25%) were rash, fatigue, and hypoalbuminemia. Administration-related reactions were seen in 7% of pts (0 grade ≥ 3). In total, 7% discontinued ami due to TEAEs. Updated results with additional pts, longer follow-up, and biomarker analyses will be presented at the meeting.

Conclusions

Amivantamab demonstrated rapid and meaningful antitumor activity in pts with HPV-unrelated, previously treated R/M HNSCC after disease progression on checkpoint inhibition and chemotherapy. The early safety profile was consistent with prior studies, with no new safety signals identified.

Clinical trial identification

NCT06385080.

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Legal entity responsible for the study

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Disclosure

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A. Rosenberg: Financial Interests, Personal, Stocks/Shares: Galectin Therapeutics, Privo Technologies; Financial Interests, Personal, Advisory Board: Astellas Pharma, Eisai, EMD Serono, Nanobiotix, Novartis, Regeneron, Vaccitech; Financial Interests, Personal, Speaker's Bureau: Coherus Biosciences; Financial Interests, Institutional, Research Funding: AbbVie, BeiGene, Bristol Myers Squibb/Celgene, EMD Serono, Hookipa Biotech, Purple Biotech. M. Yang: Financial Interests, Personal, Other, Honoraria: MSD, Pfizer, Merck, ONO; Financial Interests, Personal, Speaker, Consultant, Advisor: MSD, Pfizer. J.L. Geiger: Financial Interests, Personal, Speaker, Consultant, Advisor: Regeneron, Merck, Exelis, Astellas Pharma; Financial Interests, Institutional, Research Funding: Regeneron, Genentech/Roche, Alkermes, Merck Serono, Merck. M. Oliva Bernal: Financial Interests, Personal, Invited Speaker: MERCK, MSD, BMS; Financial Interests, Personal, Advisory Board: MERCK, MSD; Financial Interests, Personal, Writing Engagement: MSD; Financial Interests, Personal, Invited Speaker, Teaching activities: MSD, MERCK; Financial Interests, Personal, Other, IDMC: Transgene; Financial Interests, Personal, Other, Medical Monitoring; DMC; Advisory: OBATICA; Financial Interests, Personal and Institutional, Funding: ROCHE; Financial Interests, Institutional, Local PI: ALX Oncology, MSD, ISA Therapeutics BV, ROCHE, Ayala Therapeutics, AbbVie, Bayer, boehringer ingelheim, MERCK, Debiopharm, SEAGEN, GILEAD, Beigene, NYKODE, JANSSEN; Financial Interests, Institutional, Funding: GSK; Non-Financial Interests, Project Lead: TTCC SPANISH GROUP; Non-Financial Interests, Institutional, Product Samples: ROCHE; Non-Financial Interests, Institutional, Product Samples, Analysis of samples: Guardan Health. M. Ahn: Financial Interests, Personal, Advisory Board: AstraZeneca, Takeda, MSD, Yuhan, Amgen, Alpha Pharmaceutical, Janssen, Bristol Myers Squibb, Roche, Daiichi Sankyo, Merck, BORONOI, Genexin, Boerhinger Ingelheim. W. Ince: Financial Interests, Personal, Research Funding: MSD (Merck); Financial Interests, Personal, Speaker, Consultant, Advisor: MSD(Merck), ipsen, recordati; Financial Interests, Personal, Other, Travel: ipsen, MSD. A.K. Bhatia: Financial Interests, Personal, Other, Honoraria: Clinical Care Options, Merck Serono, Reneron; Financial Interests, Personal, Research Funding: Boehringer Ingelheim. B. Keam: Financial Interests, Personal, Invited Speaker: Merck, Lily, MSD, LG chem, Norvatis; Financial Interests, Personal, Advisory Board: Handok, TrialInformatics, ImmunOncia, Beigen, TiumBio; Financial Interests, Personal, Coordinating PI: MSD Oncology, AstraZeneca, Ono Pharmaceutical, Bayer. R. Metcalf: Financial Interests, Personal, Speaker, Consultant, Advisor: Rgenta, Avaca. G. Molina Lores: Financial Interests, Personal, Full or part-time Employment: Johnson & Johnson; Financial Interests, Personal, Stocks/Shares: Johnson & Johnson. J. Curtin: Financial Interests, Personal, Full or part-time Employment: Johnson & Johnson; Financial Interests, Personal, Stocks/Shares: Johnson & Johnson. J. Xie: Financial Interests, Personal, Full or part-time Employment: Johnson & Johnson; Financial Interests, Personal, Stocks/Shares: Johnson & Johnson. M. Wade: Financial Interests, Personal, Full or part-time Employment: Johnson & Johnson: Financial Interests, Personal, Stocks/Shares: Johnson & Johnson, E. Yilmaz: Financial Interests. Personal, Full or part-time Employment: Johnson & Johnson; Financial Interests, Personal, Stocks/Shares: Johnson & Johnson. P. Kim: Financial Interests, Personal, Full or part-time Employment: Johnson & Johnson; Financial Interests, Personal, Stocks/Shares: Johnson & Johnson, M. Baig: Financial Interests, Personal, Full or part-time Employment: Johnson & Johnson; Financial Interests, Personal, Stocks/Shares: Johnson & Johnson, P.L. Swiecicki: Financial Interests, Personal, Advisory Board: Johnson and Johnson, Astellas, Remix, Rapt, Rgenta, GeoVax, CDR Life, EMD Serono, Elevar, Regeneron, Prelude Therapeutics; Financial Interests, Institutional, Local PI: Janssen, Rgenta, Astellas, CDR Life, Liga Biochemo, Volastra; Financial Interests, Institutional, Funding: Ascentage; Other, Other, Co-holder for pending patents related to HPV ctDNA detection technologies: n/a. All other authors have declared no conflicts of interest.

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