

Analysis of published literature on the relationship between patient overall survival and other patient outcomes (response rate and progression-free survival) in clinical trials of immunotherapy treatments for head and neck squamous cell carcinoma (HNSCC)

This document provides a short summary of information about this study, which was a literature review and analysis presented at the 2020 European Society for Medical Oncology (ESMO) Congress (virtual format).

Full title of presentation: The Relationship Between Overall Survival (OS), Progression-Free Survival (PFS), and Objective Response Rate (ORR) in Immune Checkpoint Inhibitor Clinical Trials of Head and Neck Squamous Cell Carcinoma (HNSCC): A Systematic Review and Meta-analysis

Study number: 214479

Who sponsored the study: GlaxoSmithKline (GSK)

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Why was this study carried out?



Whether a new cancer treatment extends overall survival (OS) more than current treatments is an important measure in clinical trials but needs **long-term follow-up**, which may take years to complete.



To reduce delays in new treatments being available for patients, other less time-consuming outcomes that may predict the OS, such as objective response rate (ORR) and progression-free survival (PFS), are often measured in clinical trials and the results are used to speed up decisions for approval of these treatments.

- ORR is the proportion of patients whose tumor has shrunk or disappeared.
- PFS is the duration of time during and after treatment that a patient has cancer but does not get worse.



The current evidence for this varies among cancer types and treatment types.



This study looked at **whether ORR and PFS can predict OS improvement** in clinical trials of one of the newer types of treatment, immuno-oncology (I-O), in patients with advanced (recurrent or metastatic) HNSCC.



This would **help design future clinical trials** in this disease.

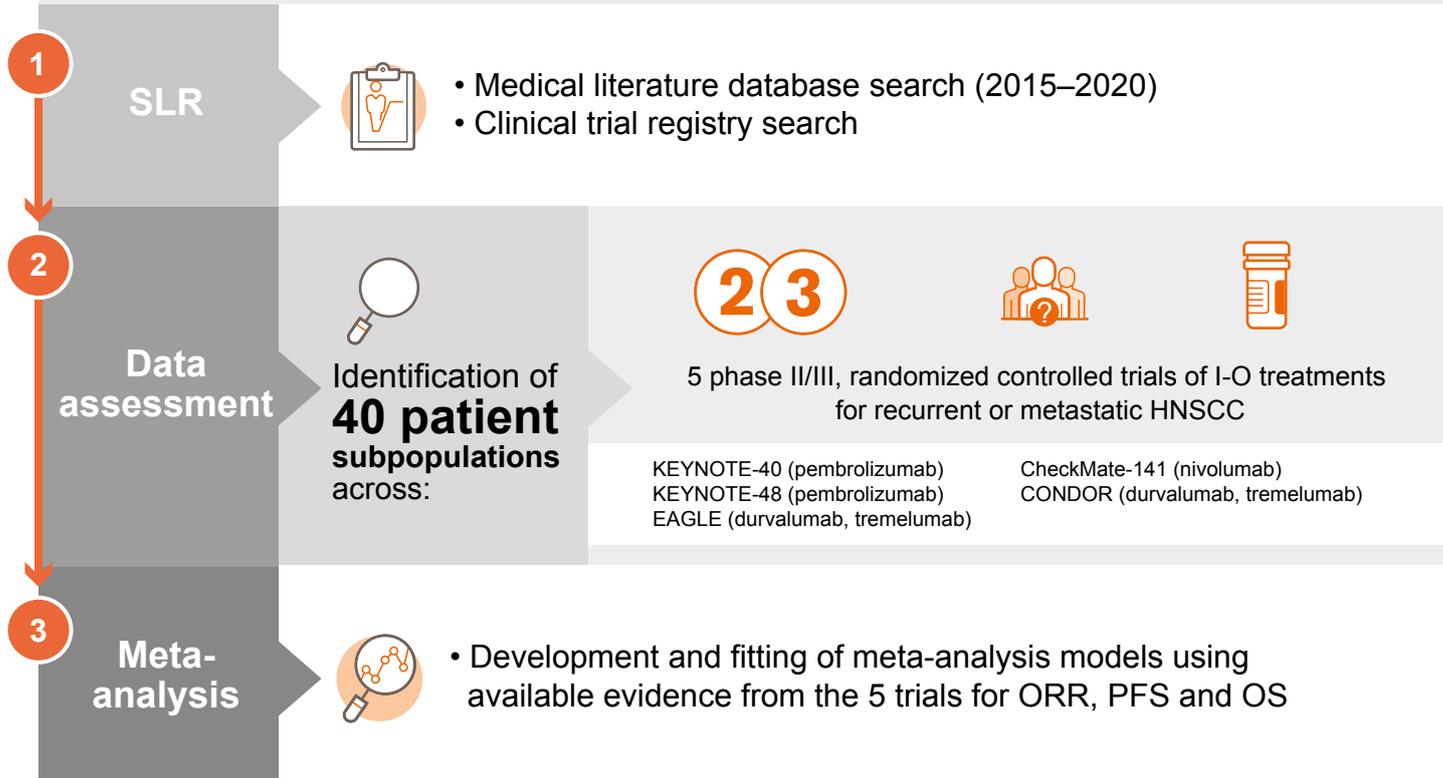
About the study and analysis

This was a systematic (thorough or comprehensive) literature review (SLR) followed by a meta-analysis of the findings.



A meta-analysis is a research method that uses statistics to combine the results from multiple separate but similar studies to develop an estimate based on the pooled data.

The study process:



What were the results of the meta-analysis?



There was a strong correlation between ORR and median OS and between PFS and median OS.



A 10% absolute improvement in ORR, or 2-fold improvement of median PFS, would lead to a 1.22-fold improvement in median OS.

What were the main conclusions of the study researchers?



- **The findings support using ORR and PFS as measures to predict OS effect in early phases of future clinical trials evaluating I-O treatments in recurrent or metastatic HNSCC.**
- **ORR and PFS are being used as early assessment tools in an ongoing GSK Phase II/III trial in recurrent or metastatic HNSCC.**

Where can I find more information?

The GSK-sponsored Phase II/III clinical trial in recurrent or metastatic HNSCC is called INDUCE-3. The unique study numbers associated with this study are shown below with internet links to other information.

| Organization | Website | Study Number |
|---|--|--------------|
| United States National Institutes of Health (NIH) | www.clinicaltrials.gov | NCT04128696 |
| GlaxoSmithKline (GSK) | www.gsk-clinicalstudyregister.com | 209229 |

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