

Adjuvant treatment of NSCLC: Certain patients benefit from osimertinib

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Osimertinib was the first drug to be approved for adjuvant treatment after complete tumor resection in adults with stage IB to IIIA non-small cell lung cancer (NSCLC). In an early benefit assessment, the German

Institute for Quality and Efficiency in Health Care (IQWiG) investigated whether the drug, compared with the appropriate comparator therapy, offers an added benefit to patients with an epidermal growth factor receptor (EGFR) exon 19 deletion or exon 21 substitution mutation.

Accordingly, an added benefit is not proven for patients without prior adjuvant platinum-based [chemotherapy](#). However, there is a hint of considerable added benefit of osimertinib over watchful waiting as appropriate comparator therapy for patients who have already received such chemotherapy or for whom it is not suitable.

Need for further adjuvant therapies

In the case of non-small cell lung cancer, complete removal of the tumor is often followed by recurrences, for example in the form of distant metastases. The patients then receive adjuvant chemotherapy, which, however, is often unable to curtail the metastases and which is unsuitable per se for other patients. In these cases, a so-called tyrosine kinase inhibitor can be used, which is directed against the [epidermal growth factor receptor](#) that is altered or produced excessively in the affected patients. A drug from this substance class, osimertinib, has now been approved for such adjuvant use.

In its commission to IQWiG to assess the drug, the Federal Joint Committee (G-BA) distinguishes between two appropriate comparator therapies. For patients without prior adjuvant platinum-based chemotherapy, the appropriate comparator therapy consists of watchful waiting or systemic antineoplastic drug treatment of physician's choice, depending on the stage of the disease. If the patients have already received adjuvant platinum-based chemotherapy or if this therapy is not suitable for them, watchful waiting is the sole appropriate comparator therapy.

Unclear allocation of the affected patients limits informative value

In its dossier, the manufacturer assumes that its drug is an option only in a few cases, if any, for patients who have not yet received adjuvant platinum-based chemotherapy despite suitability. Therefore, it only lists one study whose participants correspond to research question 2, i.e. who either have already undergone adjuvant platinum-based chemotherapy or who cannot receive such therapy. The ongoing randomized controlled trial compares osimertinib with placebo and includes adults with stage IB to IIIA NSCLC after complete tumor resection whose tumors had EGFR mutations in the form of exon 19 deletion or exon 21 substitution mutation (L858R).

Quite a few participants in the study—one quarter to three quarters, depending on the disease stage—have not received adjuvant chemotherapy before, and the reasons for this remain open. It is thus unclear whether platinum-based chemotherapy would not have been suitable for some of them. These patients would therefore not fall under the research question. The data basis allows conclusions on the added benefit of osimertinib, however, the uncertainty permits at most the derivation of hints.

Less recurrences

An added benefit compared to watchful waiting in the outcome category "mortality" is not proven for patients who have already received adjuvant platinum-based chemotherapy or for whom this therapy is not suitable. In the category "morbidity," the study data show an added benefit for the outcome "recurrence": Recurrences occurred less frequently in the osimertinib arm than in the placebo arm.

An added benefit is not proven for the mental aspects of health-related quality of life. For the physical aspects of health-related quality of life, there is a hint of lesser benefit of osimertinib compared to watchful waiting for patients in stages II and IIIA; there is no proof of greater or lesser benefit for patients in stage IB.

In some outcomes of the category "side effects," there are hints of greater harm from osimertinib versus watchful waiting.

However, these [negative effects](#) do not completely outweigh the major advantage in the outcome "recurrence." In summary, there is a hint of considerable added benefit for patients who have already received adjuvant platinum-based chemotherapy or for whom it is not suitable.

There are no suitable study data on the treatment of patients without prior [adjuvant](#) platinum-based chemotherapy, so that an added benefit of [osimertinib](#) versus the appropriate comparator therapy is not proven for these patients.

More information: Original assesment (in German): [www.g-ba.de/bewertungsverfahren ... nutzenbewertung/713/](http://www.g-ba.de/bewertungsverfahren...nutzenbewertung/713/)

Provided by Institute for Quality and Efficiency in Health Care

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