

13 March 2019

Atezolizumab monotherapy in second-line (or later) treatment of non-small-cell lung cancer Approved at the meeting of the Council for Choices in Health Care in Finland (COHERE) on 13 March 2019

Recommendation by Atezolizumab is included in the range of services as monotherapy in the		
Recommendation by COHERE		treatment of locally advanced or metastatic non-small-cell lung cancer among adult patients who have previously been treated with a cytostatic agent, whose tumour is PD-L1 positive (TPS ≥ 1%) and whose tumour does not have EGFR or ALK positive mutations. Patients should be in good general condition (ECOG 0-1), have no serious immunity-weakening diseases or medication, and should not have been treated previously with PD-1/PD-L1 inhibitors. The effectiveness of treatment in relation to the adverse effects should be assessed closely and the treatment stopped when the cancer progresses. A precondition for this recommendation is that the pharmaceutical company and the purchaser of the drug agree on a price lower than the drug's wholesale price.
	Severity and	Lung cancer causes the most mortality of all cancer in Finland. The majority of
	prevalence of the	lung cancers are non-small-cell cancers and are only detected in the
	health issue	metastatic stage, when the goal of treatment is generally to slow disease progression and prolong life. The age-adjusted relative survival rate of non-small-cell lung cancer 5 years after diagnosis is 11% for men and 16% for women. Fimea estimates that each year there are about 60 patients in Finland with lung cancer suitable for treatment in accordance with this recommendation.
	Treatment options	Cytostatic agents, such as docetaxel, are usually used in second-line treatment
	'	of non-small-cell lung cancer. PD-1 inhibitors nivolumab and pembrolizumab,
		which affect the T-cell-mediated immune response, are also treatment options.
	Effectiveness	In the second (and later) line treatment of non-small-cell lung cancer, atezolizumab has been shown to prolong the median overall survival by a few months compared to docetaxel. Among those who have benefited from treatment with atezolizumab for a longer period of time, patients with tumours expressing a high level of PD-L1 are emphasised.
(0	Safety	Fewer treatment-related adverse effects occurred among patients in the
Grounds	Carcty	atezolizumab group than among patients who received docetaxel.
		Discontinuation of treatment due to an adverse effect was also less frequent
		among patients in the atezolizumab group. Among some patients, the use of PD-1/PD-L1 inhibitors has been found to be associated with clinically significant adverse effects on the immune system. Adverse effects may occur
		only months after the end of treatment.
	Costs and impact on	The cost of one year of treatment with atezolizumab per patient is estimated at
	the budget	EUR 119,000. If 60 patients were given a 12-month course of treatment, the total cost would be about EUR 7.1 million per year. In practice, the budgetary impact is lower depending on the duration of the treatments given and how patients are distributed between different treatment options. For most patients the duration of treatment will probably be less than one year.
	Ethical and financial aspects as a whole	The likelihood of benefit from treatments with PD-1/PD-L1 inhibitors increases with the tumour's PD-L1 expression. The optimal administration frequency or duration of treatments is not known. From the perspective of the financial resources available to the healthcare system, it is justified to target the use of PD-1/PD-L1 inhibitors at patients who, with adequate certainty, will benefit from the treatment. Treatments may use the PD-1/PD-L1 inhibitor with the lowest procurement and administration costs.
Collection of further		It is recommended that data on the number of patients treated, the duration of
evidence		treatment and outcomes, as well as data on other cancer treatments given, be collected and reported routinely.
Diagnosis (ICD-10) codes		C34 Lung cancer
Background information		COHERE memorandum (in Finnish), Assessment report by Fimea (in Finnish
and references		with English Summary)