NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

Health Technology Evaluation

Atezolizumab for adjuvant treatment of resected non-small-cell lung cancer (CDF review of TA823) ID6324

Draft scope

Draft remit/evaluation objective

To appraise the clinical and cost effectiveness of atezolizumab within its marketing authorisation for adjuvant treatment of completely resected NSCLC which has not progressed after platinum-based chemotherapy and expressed PD-L1 on 50% or more of tumour cells.

Background

Lung cancer is the third most common cancer and the most common cause of cancer death in the UK, accounting for 10% of all new cancer cases and 20% of all cancer deaths in 2020.¹ Most lung cancers are diagnosed at an advanced stage when the cancer has spread to lymph nodes and other organs in the chest (locally advanced disease; stage 3) or to other parts of the body (metastatic disease; stage 4).

In 2022, 92% (around 34,000) of people diagnosed with lung cancer in England had NSCLC.² Of these people, 18% (5,333) had surgical treatment for their cancer.² Despite the curative intent of treatment for early-stage lung cancer, survival is poor, with only about 57% people with stage 1, 34% with stage 2 and 13% with stage 3 surviving for 5 years after diagnosis.³ It is estimated that over half of all NSCLCs express the programmed cell death ligand-1 (PD-L1) biomarker.⁴ Cancer cells expressing PD-L1 are believed to suppress certain immune responses which results in a weaker anti-tumour response.^{4,5}

The treatment pathway for NSCLC can be divided into interconnected decision points based on the number staging system and line of therapy. Treatment choices are influenced by the presence of biological markers (including programmed cell death 1 ligand PD-L1 status), oncogenic driver genetic alterations, histology (squamous or non-squamous) and previous treatment.

NICE guideline 122 (NG122) 'Lung cancer: diagnosis and management' recommends surgery, radiotherapy, chemoradiotherapy or a combination of these for stage 1 to 2 NSCLC. People may be offered a neo-adjuvant (before surgical removal of cancerous tumour) treatment in the form of nivolumab with chemotherapy as recommended by NICE <u>TA876</u>. Neoadjuvant chemotherapy has shown equivalent outcomes in terms of survival to adjuvant chemotherapy.⁶

For stage 3 NSCLC, surgery is carried out if the surgeon deems the tumour to be resectable. Surgery may potentially be followed by chemotherapy. If well enough, people may be offered a cisplatin-based chemotherapy (adjuvant treatment) after surgery.

People who have had surgery may have an adjuvant treatment. NICE <u>TA761</u> recommends osimertinib in the Cancer Drugs Fund as adjuvant treatment for people whose cancer has an EGFR exon 19 deletion or an exon 21 (L858R) substitution

Draft scope for the evaluation of atezolizumab for adjuvant treatment of resected non-smallcell lung cancer (CDF review of TA823) Issue Date: August 2024 Page 1 of 5 © National Institute for Health and Care Excellence 2024. All rights reserved. mutation and is currently being reviewed by NICE. For people whose cancer does not have an EGFR mutation, platinum chemotherapy may be offered as adjuvant treatment. NICE <u>TA823</u> recommends atezolizumab in the Cancer Drugs Fund as an option for maintenance treatment after complete tumour resection in adults with stage 2 to 3a NSCLC and adjuvant chemotherapy.

The technology

Atezolizumab (Tecentriq, Roche) has a marketing authorisation as adjuvant treatment following complete resection for adult patients with Stage 2 to 3A (7th edition of the UICC/AJCC-staging system) non-small cell lung cancer (NSCLC) whose tumours have PD-L1 expression on \geq 50% of tumour cells and whose disease has not progressed following platinum-based adjuvant chemotherapy

Intervention(s)	Atezolizumab
Population(s)	Adults with completely resected NSCLC which expressed PD-L1 on 50% or more of tumour cells and has not progressed after platinum based chemotherapy
Subgroups	Disease stagePresence of biological or genetic markers
Comparators	 active monitoring adjuvant pembrolizumab (subject to NICE appraisal) adjuvant osimertinib (for adults with EGFR mutation positive NSCLC and subject to NICE appraisal) adjuvant alectinib (for adults with ALK mutation positive NSCLC and subject to NICE appraisal)
Outcomes	The outcome measures to be considered include: disease-free survival overall survival response rate adverse effects of treatment health-related quality of life.

Economic analysis	The reference case stipulates that the cost effectiveness of treatments should be expressed in terms of incremental cost per quality-adjusted life year.
	The reference case stipulates that the time horizon for estimating clinical and cost effectiveness should be sufficiently long to reflect any differences in costs or outcomes between the technologies being compared.
	Costs will be considered from an NHS and Personal Social Services perspective.
	The availability of any commercial arrangements for the intervention, comparator and subsequent treatment technologies will be taken into account. The availability and cost of biosimilar and generic products should be taken into account.
Other considerations	Guidance will only be issued in accordance with the marketing authorisation. Where the wording of the therapeutic indication does not include specific treatment combinations, guidance will be issued only in the context of the evidence that has underpinned the marketing authorisation granted by the regulator.
Related NICE recommendations	Related technology appraisals:
	Nivolumab with chemotherapy for neoadjuvant treatment of resectable non-small-cell lung cancer (2023) NICE technology appraisal guidance 876
	Atezolizumab for adjuvant treatment of resected non-small- cell lung cancer (2022) NICE technology appraisal guidance 823
	Osimertinib for adjuvant treatment of EGFR mutation-positive non-small-cell lung cancer after complete tumour resection (2022) TA761
	Related technology appraisals in development:
	Pembrolizumab for adjuvant treatment of resected non-small- cell lung cancer [ID3907] Expected publication October 2024
	Pembrolizumab as neoadjuvant (with chemotherapy) and adjuvant (as monotherapy) treatment for resectable non- small-cell lung cancer [ID5094] Expected publication date October 2024
	Durvalumab with chemotherapy before surgery (neoadjuvant) then alone after surgery (adjuvant) for treating resectable non-small-cell lung cancer [ID6220] Publication date to be confirmed
	Atezolizumab with chemotherapy for neoadjuvant and adjuvant treatment of resectable non-small-cell lung cancer [ID3894] Publication date to be confirmed

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	Nivolumab for adjuvant treatment of resected non-small-cell lung cancer [ID4053] Publication date to be confirmed Nivolumab as neoadjuvant (with chemotherapy) and adjuvant (as monotherapy) treatment for resectable non-small-cell lung cancer [ID6310] Publication date to be confirmed Durvalumab for adjuvant treatment of resectable non-small- cell lung cancer NICE Technology Appraisals guidance ID1263. Publication date to be confirmed Related NICE guidelines:
	Lung cancer: diagnosis and management (NG122) Related quality standards:
	Lung cancer in adults (2019) NICE quality standard
Related National Policy	The NHS Long Term Plan (2019) <u>NHS Long Term Plan</u> NHS England (2023) <u>Manual for prescribed specialist</u> <u>services (2023/2024)</u> Chapter 105: Specialist cancer services (adults)

Questions for consultation

Where do you consider adjuvant atezolizumab will fit into the existing care pathway for the disease?

Would atezolizumab be used in EGFR and ALK genetic alteration positive NSCLC?

Do you consider that the use of atezolizumab can result in any potential substantial health-related benefits that are unlikely to be included in the QALY calculation?

Please identify the nature of the data which you understand to be available to enable the committee to take account of these benefits.

NICE is committed to promoting equality of opportunity, eliminating unlawful discrimination and fostering good relations between people with particular protected characteristics and others. Please let us know if you think that the proposed remit and scope may need changing in order to meet these aims. In particular, please tell us if the proposed remit and scope:

- could exclude from full consideration any people protected by the equality legislation who fall within the patient population for which atezolizumab is licensed
- could lead to recommendations that have a different impact on people protected by the equality legislation than on the wider population, e.g. by making it more difficult in practice for a specific group to access the technology;
- could have any adverse impact on people with a particular disability or disabilities.

Please tell us what evidence should be obtained to enable the committee to identify and consider such impacts.

NICE intends to evaluate this technology through its Single Technology Appraisal process. (Information on NICE's health technology evaluation processes is available at <u>https://www.nice.org.uk/about/what-we-do/our-programmes/nice-guidance/nice-technology-appraisal-guidance/changes-to-health-technology-evaluation</u>).

References

- 1. NHS England. <u>Cancer Registration Statistics, England 2020</u>. Accessed March 2024
- 2. Royal College of Surgeons of England (2024). <u>National Lung Cancer Audit:</u> <u>State of the Nation Report 2024.</u> Accessed May 2024
- 3. Office for National Statistics. Cancer Survival in England: adults diagnosed between 2013 and 2017 and followed up to 2018. 2019. Available from: https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/datasets/cancersurvivalratescancersurvivalinenglanda_dultsdiagnosed. Accessed October 2023
- Skov, B., Rørvig, S., Jensen, T. et al. (2020) <u>The prevalence of programmed</u> <u>death ligand-1 (PD-L1) expression in non-small cell lung cancer in an</u> <u>unselected, consecutive population</u>. Mod Pathol 33, 109–117
- Han Y, Liu D, Li L. <u>PD-1/PD-L1 pathway: current researches in cancer</u>. Am J Cancer Res. 2020 Mar 1;10(3):727-742. PMID: 32266087; PMCID: PMC7136921.
- European Society for Medical Oncology (ESMO). Early and locally advanced non-small-cell lung cancer (NSCLC): ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up. Annals of Oncology. 2017;28(Supplement 4):iv1–iv21. Available from: <u>https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/.</u> Accessed October 2023