

NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

Health Technology Appraisal

Venetoclax with obinutuzumab for untreated chronic lymphocytic leukaemia

Final scope

Draft remit/appraisal objective

To appraise the clinical and cost effectiveness of venetoclax with obinutuzumab within its marketing authorisation for untreated chronic lymphocytic leukaemia.

Background

Chronic lymphocytic leukaemia (CLL) is a malignant disorder of white blood cells (lymphocytes). It causes anaemia, swollen lymph nodes, spleen enlargement, weight loss and increased susceptibility to infection. People with CLL may live with a considerable burden of symptoms impacting on their quality of life, whether or not they have received treatment.

In England there were 3,157 new cases of CLL in 2017¹. The risk of developing CLL increases with age and is more common in men¹.

Treatment options for untreated CLL depend on factors such as stage of disease, performance status and co-morbidities. Most people will not have symptoms when they first receive a diagnosis and will not need any treatment, if they don't have any symptoms. Approximately 5% to 10% of people diagnosed with CLL are considered to have 'high-risk' disease, characterised by the presence of cytogenetic mutations or abnormalities (that is, 17p deletion or TP53 mutation)². The presence of 17p deletion or TP53 mutation can increase both the rate of cell growth and the resistance of the disease to treatment.

Table 1. Treatment options for untreated CLL in NHS practice

<i>NICE technology appraisal</i>	<i>Treatment option for untreated CLL</i>	<i>Population</i>
Without a 17p deletion (del[17p]) or TP53 mutation		
TA174	rituximab with fludarabine and cyclophosphamide (FCR)	people for whom fludarabine in combination with cyclophosphamide is considered appropriate
TA216	bendamustine with or without rituximab (BR)	people who cannot have fludarabine combination chemotherapy
No TA published*	chlorambucil, with or without rituximab	
TA343	obinutuzumab with	people for whom fludarabine-

	chlorambucil	based therapy and bendamustine is unsuitable
With a del(17p) or TP53 mutation		
TA359	idelalisib with rituximab	people who cannot have any other therapies
TA429	ibrutinib monotherapy	people for whom chemo-immunotherapy is unsuitable
TA487	venetoclax for use in the Cancer Drugs Fund	people for whom B-cell receptor pathway inhibitors are unsuitable
*use of chlorambucil, with or without rituximab, is detailed in TA343.		

The technology

Venetoclax (Venclyxto, AbbVie) is a selective blocker of B-cell lymphoma-2 (BCL-2), which is a protein that allows cancer cells to stay alive. Venetoclax is administered orally.

Venetoclax with obinutuzumab does not have a UK marketing authorisation for untreated CLL. It is being studied in a clinical trial compared with obinutuzumab with chlorambucil, in adults with untreated CLL.

Venetoclax monotherapy has a marketing authorisation in the UK for treating CLL in adults. Venetoclax with rituximab has a UK marketing authorisation for treating relapsed or refractory CLL.

Intervention	Venetoclax with obinutuzumab
Population	People with untreated chronic lymphocytic leukaemia
Comparators	<p>Without a del(17p) or TP53 mutation:</p> <ul style="list-style-type: none"> • fludarabine, cyclophosphamide and rituximab (FCR) • bendamustine with or without rituximab (BR), for people for whom fludarabine-based therapy is unsuitable • chlorambucil with or without rituximab, for people for whom fludarabine-based therapy is unsuitable • obinutuzumab with chlorambucil, for people for whom fludarabine-based therapy and bendamustine is unsuitable. <p>With a del(17p) or TP53 mutation:</p> <ul style="list-style-type: none"> • ibrutinib monotherapy, for people for whom

	<p>chemo-immunotherapy is unsuitable</p> <ul style="list-style-type: none"> • idelalisib with rituximab.
Outcomes	<p>The outcome measures to be considered include:</p> <ul style="list-style-type: none"> • overall survival • progression- free survival • response rate • adverse effects of treatment • health-related quality of life.
Economic analysis	<p>The reference case stipulates that the cost effectiveness of treatments should be expressed in terms of incremental cost per quality-adjusted life year.</p> <p>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.</p> <p>Costs will be considered from an NHS and Personal Social Services perspective.</p> <p>The availability and cost of biosimilar products of should be taken into account.</p> <p>The availability of any commercial arrangements for the intervention, comparator and subsequent treatment technologies will be taken into account.</p>
Other considerations	<p>If the evidence allows the following subgroups will be considered:</p> <ul style="list-style-type: none"> • people with untreated CLL with del(17p) or TP53 mutation • people with untreated CLL for whom fludarabine-based therapy is unsuitable • people with untreated CLL for whom bendamustine-based therapy is unsuitable. <p>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.</p>
Related NICE recommendations and NICE	<p>Related technology appraisals:</p> <p>Venetoclax with rituximab for previously treated chronic lymphocytic leukaemia (2019) NICE technology</p>

Pathways

appraisal 561. Review date February 2022.

[Venetoclax for treating chronic lymphocytic leukaemia](#) (2017) NICE technology appraisal 487. To be updated when the CDF data collection period has ended (expected December 2020).

[Ibrutinib for previously treated chronic lymphocytic leukaemia and untreated chronic lymphocytic leukaemia with 17p deletion or TP53 mutation](#) (2017) NICE technology appraisal 429. Review date January 2020.

[Idelalisib for treating chronic lymphocytic leukaemia](#) (2015) NICE technology appraisal 359. On static list

[Obinutuzumab in combination with chlorambucil for untreated chronic lymphocytic leukaemia](#) (2015) NICE technology appraisal 343. On static list

[Bendamustine for the first-line treatment of chronic lymphocytic leukaemia](#) (2011) NICE technology appraisal 216. On static list.

[Rituximab for the first-line treatment of chronic lymphocytic leukaemia](#) (2009) NICE technology appraisal 174. On static list.

[Fludarabine monotherapy for the first-line treatment of chronic lymphocytic leukaemia](#) (2007). NICE technology appraisal 119. On static list.

Terminated appraisals:

[Idelalisib with ofatumumab for treating chronic lymphocytic leukaemia \(terminated appraisal\)](#) (2017). NICE technology appraisal 469.

[Ibrutinib for untreated chronic lymphocytic leukaemia without a 17p deletion or TP53 mutation \(terminated appraisal\)](#) (2017). NICE technology appraisal 452.

Appraisals in development (including suspended appraisals)

[Venetoclax with ibrutinib and obinutuzumab for untreated chronic lymphocytic leukaemia](#) NICE technology appraisals guidance ID1270. Suspended.

Related Guidelines:

[Haematological cancers: improving outcomes](#) (2016). NICE guideline 47 Review date to be confirmed.

	<p>Related quality standards:</p> <p>Haematological cancers (2017). NICE quality standard 150.</p> <p>Related NICE Pathway:</p> <p>Blood and bone marrow cancers</p>
Related National Policy	<p>The NHS Long Term Plan, 2019. NHS Long Term Plan</p> <p>NHS England (2018/2019) NHS manual for prescribed specialist services (2018/2019) Chapter 105.</p> <p>Department of Health (2016) NHS Outcomes Framework 2016 to 2017: Domain 1.</p>

References

1. [Cancer registration statistics, England: 2017](#) (2019). Office for National Statistics. Accessed May 2019.
2. Eichhorst B, Robak T, Montserrat E et al. on behalf of the European Society for Medical Oncology (ESMO) Guidelines Committee (2015). [Chronic lymphocytic leukaemia: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up](#). Annals of Oncology 26 (S5): v78-v84.