NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

Health Technology Appraisal

Filgotinib for treating moderately to severely active ulcerative colitis

Final scope

Remit/appraisal objective

To appraise the clinical and cost effectiveness of filgotinib within its marketing authorisation for treating moderately to severely active ulcerative colitis.

Background

Ulcerative colitis is the most common inflammatory bowel disease. The cause of ulcerative colitis is unknown. Hereditary, infectious and immunological factors have been proposed as possible causes. It can develop at any age, but peak incidence is between the ages of 15 and 25 years, with a second, smaller peak between 55 and 65 years. It has been estimated that around 106,000 people in England have ulcerative colitis, of whom about 52% have moderate to severe disease^{1,2}.

Ulcerative colitis usually affects the rectum, and a variable extent of the colon proximal to the rectum. The symptoms of ulcerative colitis include bloody diarrhoea, colicky abdominal pain, urgency, tenesmus, fatigue and anaemia. Some patients may have extra-intestinal manifestations involving joints, eyes, skin and liver. Ulcerative colitis is associated with significant morbidity; symptoms can have a debilitating impact on quality of life and daily life, including physical, social and mental wellbeing. It is a lifelong disease, and symptoms can recur or the disease can go into remission for months or even years. Around 50% of people with ulcerative colitis will have at least one relapse per year³. About 80% of these are mild to moderate and about 20% are severe³. Complications of ulcerative colitis may include haemorrhage, perforation, stricture formation, abscess formation and anorectal disease. Some people may also develop primary sclerosing cholangitis, osteoporosis and toxic megacolon. People with long-standing disease have an increased risk of bowel cancer.

The aim of treatment in active disease is to address symptoms of bloody diarrhoea, urgent need to defecate and abdominal pain, and thereafter to maintain remission. Initial management depends on clinical severity, extent of disease and the person's preference, and may include aminosalicylates (sulfasalazine, mesalazine, balsalazide or olsalazine), corticosteroids (beclometasone, budesonide, hydrocortisone or prednisolone) and biologics. An immunosuppressant (such as mercaptopurine or azathioprine) may be considered to maintain remission if aminosalicylates fail to do so.

NICE technology appraisal 329 recommends infliximab, adalimumab and golimumab for treating moderately to severely active ulcerative colitis in adults whose disease has responded inadequately to conventional therapy including corticosteroids and mercaptopurine or azathioprine, or who cannot tolerate, or have medical contraindications for, such therapies. Vedolizumab (NICE technology appraisal 342) is recommended for treating moderately to severe active ulcerative colitis. Tofacitinib (NICE technology appraisal 547) is recommended for treating moderately to severely active ulcerative colitis in adults when conventional therapy or a biological agent

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Issue Date: February 2021 © National Institute for Health and Care Excellence [2021]. All rights reserved. cannot be tolerated, or the disease has responded inadequately or lost response to treatment. NICE technology appraisal 633 recommends ustekinumab for treating moderately to severely active ulcerative colitis in adults when conventional therapy or a biological agent cannot be tolerated, or the disease has responded inadequately or lost response to treatment, only if a tumour necrosis factor-alpha inhibitor has failed, cannot be tolerated or is not suitable.

For people admitted to hospital with acute severe ulcerative colitis NICE guideline [NG130] recommends offering intravenous corticosteroids to induce remission and assessing the need for surgery. Surgery may be considered as emergency treatment for severe ulcerative colitis that does not respond to drug treatment. People may also choose to have elective surgery for unresponsive or frequently relapsing disease that is affecting their quality of life. The scope of this appraisal does not include severe ulcerative colitis that is a medical emergency requiring intensive inpatient treatment.

The technology

Filgotinib (Jyseleca, Galapagos Biotech and Gilead Sciences) is a selective Januskinase (JAK) 1 inhibitor that blocks the JAK-signal transducer and activator of transcription (STAT) pathway and inflammatory responses. It is administered orally.

Filgotinib does not currently have a marketing authorisation in the UK for moderately to severely active ulcerative colitis. It has been studied in clinical trials compared with placebo as an induction therapy in people with moderately to severely active ulcerative colitis who are intolerant of, or whose disease has had an inadequate response or loss of response to conventional therapy (oral corticosteroids and/or immunosuppressants) or a biologic agent (a TNF-alpha inhibitor or vedolizumab), and as continued maintenance therapy in people whose disease responded to initial treatment.

Intervention(s)	Filgotinib
Population(s)	People with moderately to severely active ulcerative colitis who have had an inadequate response, loss of response or were intolerant to a previous biologic agent or conventional therapy.
Comparators	 TNF-alpha inhibitors (infliximab, adalimumab and golimumab) Tofacitinib Ustekinumab Vedolizumab Conventional therapies (including aminosalicylates, oral corticosteroids and/or immunomodulators), without biological treatments

Outcomes	The outcome measures to be considered include:
	mortality
	measures of disease activity
	 rates of and duration of response, relapse and remission
	 rates of hospitalisation (including readmission)
	rates of surgical intervention
	endoscopic healing
	 mucosal healing (combines endoscopic and histological healing)
	corticosteroid-free remission
	achieving mucosal healing
	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.
	If the technology is likely to provide similar or greater health benefits at similar or lower cost than technologies recommended in published NICE technology appraisal guidance for the same indication, a cost-comparison may be carried out.
	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 of any managed access arrangement for the intervention will be taken into account.

Other	If the evidence allows the following subgroups will be
considerations	considered:
	 people who have been previously treated with 1 or more biologics;
	 and people who have not received a prior biologic.
	The availability and cost of biosimilar products should be taken into account.
	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	Related Technology Appraisals:
recommendations and NICE Pathways	Ustekinumab for treating moderately to severely active ulcerative colitis (2020). Technology appraisal guidance TA633. Review date: 2023.
	<u>Tofacitinib for treating moderately to severely active</u> <u>ulcerative colitis</u> (2018). Technology appraisal guidance TA547. Review date: November 2021.
	Vedolizumab for treating moderately to severely active ulcerative colitis (2015). Technology appraisal guidance TA342. Review date: June 2018.
	Infliximab, adalimumab and golimumab for treating moderately to severely active ulcerative colitis after the failure of conventional therapy (2015). Technology appraisal guidance TA329. Review date: TBC.
	Related Guidelines:
	<u>Ulcerative colitis: management.</u> NICE guideline NG130. Published date: May 2019. Review date: TBC.
	Related Interventional Procedures:
	Leukapheresis for inflammatory bowel disease (2005). NICE interventional procedures guidance 126.
	Transanal total mesorectal excision of the rectum (2015) NICE interventional procedures guidance 514.
	Related Quality Standards:
	Inflammatory bowel disease (2015). NICE quality standard 81
	Related NICE Pathways:
	<u>Ulcerative colitis overview</u> (2019). NICE pathway
Related National Policy	NHS England (2019) The NHS long term plan
	NHS England (2013) 2013/14 NHS standard contract for colorectal: complex (adult) particulars, schedule 2- the

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services, A - service specifications. Reference: A08/S/c
Department of Health and Social Care, NHS Outcomes Framework 2016-2017 (published 2016): Domains 1, 2
https://www.gov.uk/government/publications/nhs-outcomes- framework-2016-to-2017

References

- 1. National Institute for Health and Care Excellence (2015), Technology Appraisal 342; <u>Costing statement</u> [online; accessed 20 July 2020].
- 2. Office for National Statistics, Clinical commissioning group population estimates; <u>Mid 2018</u> [online; accessed 20 July 2020].
- 3. National Institute for Health and Care Excellence (2014), Quality standards and indicators; <u>Briefing Paper</u> [online; accessed 20 July 2020].