

This draft guideline contains:

- the draft recommendations
- recommendations for research
- rationale and impact sections that explain why the committee made the [2019] recommendations and how they might affect practice
- the guideline context.

Full details of the evidence and the committee's discussion on the 2019 recommendations are in the [evidence reviews](#). Evidence for the 2013 recommendations is in the [full version](#) of the 2013 guideline.

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1 Recommendations

People have the right to be involved in discussions and make informed decisions about their care, as described in [your care](#).

[Making decisions using NICE guidelines](#) explains how we use words to show the strength (or certainty) of our recommendations, and has information about prescribing medicines (including off-label use), professional guidelines, standards and laws (including on consent and mental capacity), and safeguarding.

2 **1.1 Patient information and support**

3 1.1.1 Discuss the disease and associated symptoms, treatment options and
4 monitoring:

- 5 • with the person with ulcerative colitis and their family members or
6 carers (as appropriate) **and**
- 7 • within the multidisciplinary team (the composition of which should be
8 appropriate for the age of the person) at every opportunity.

9 Apply the principles in the NICE guideline on [patient experience in adult](#)
10 [NHS services](#). [2013]

11 1.1.2 Discuss the possible nature, frequency and severity of side effects of drug
12 treatment for ulcerative colitis with the person, and their family members
13 or carers (as appropriate). Refer to the NICE guideline on [medicines](#)
14 [adherence](#). [2013]

15 1.1.3 Give the person, and their family members or carers (as appropriate)
16 information about their risk of developing colorectal cancer and about
17 colonoscopic surveillance, in line with the NICE guidelines on:

- 18 • [colorectal cancer prevention: colonoscopic surveillance in adults with](#)
19 [ulcerative colitis, Crohn's disease or adenomas](#)
- 20 • [suspected cancer: recognition and referral](#). [2013]

1 **1.2 *Inducing remission in people with ulcerative colitis***

2 **Treating mild-to-moderate ulcerative colitis**

3 ***Proctitis***

4 1.2.1 To induce remission in people with a mild-to-moderate first presentation or
5 inflammatory exacerbation of proctitis, offer a topical aminosalicylate¹ as
6 first-line treatment. **[2019]**

7 1.2.2 If remission is not achieved within 4 weeks, consider adding an oral
8 aminosalicylate². **[2019]**

9 1.2.3 If further treatment is needed, consider adding a topical or oral
10 corticosteroid³. **[2019]**

11 1.2.4 For people who decline a topical aminosalicylate:

- 12
- 13 • consider an oral aminosalicylate as first-line treatment, and explain that
14 this is not as effective as a topical aminosalicylate
 - 15 • if remission is not achieved within 4 weeks, consider adding a topical or
oral corticosteroid³. **[2019]**

16 1.2.5 For people who cannot tolerate aminosalicylates, consider a topical or an
17 oral corticosteroid. **[2019]**

¹ At the time of consultation (December 2018), some topical aminosalicylates did not have a UK marketing authorisation for this indication in children and young people. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's [Good practice in prescribing and managing medicines and devices](#) for further information.

² At the time of consultation (December 2018), some oral aminosalicylates did not have a UK marketing authorisation for this indication in children and young people. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's [Good practice in prescribing and managing medicines and devices](#) for further information.

³ At the time of consultation (December 2018), beclometasone dipropionate only has a UK marketing authorisation 'as add-on therapy to 5-ASA containing drugs in patients who are non-responders to 5-ASA therapy in active phase'. Additionally, budesonide (oral or rectal) and prednisolone foam are not licensed in children. For use outside these licensed indications, the prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's [Good practice in prescribing and managing medicines and devices](#) for further information.

1 ***Proctosigmoiditis and left-sided ulcerative colitis***

2 1.2.6 To induce remission in people with a mild-to-moderate first presentation or
3 inflammatory exacerbation of proctosigmoiditis or left-sided ulcerative
4 colitis, offer a topical aminosalicylate as first-line treatment. **[2019]**

5 1.2.7 If remission is not achieved, consider:

- 6 • adding a high-dose oral aminosalicylate to the topical aminosalicylate
7 **or**
8 • switching to a high-dose oral aminosalicylate and a topical
9 corticosteroid. **[2019]**

10 1.2.8 If further treatment is needed, stop topical treatments and offer an oral
11 corticosteroid and an oral aminosalicylate. **[2019]**

12 1.2.9 For people who decline any topical treatment:

- 13 • consider a high-dose oral aminosalicylate alone, and explain that this is
14 not as effective as a topical aminosalicylate
15 • if remission is not achieved, offer an oral corticosteroid in addition to
16 the high-dose aminosalicylate. **[2019]**

17 1.2.10 For people who cannot tolerate aminosalicylates, consider a topical or oral
18 corticosteroid. **[2019]**

19 ***Extensive disease***

20 1.2.11 To induce remission in people with a mild-to-moderate first presentation or
21 inflammatory exacerbation of extensive ulcerative colitis, offer a topical
22 aminosalicylate and a high-dose oral aminosalicylate as first-line
23 treatment. **[2019]**

24 1.2.12 If remission is not achieved, stop the topical aminosalicylate and offer an
25 oral corticosteroid with a high-dose oral aminosalicylate. **[2019]**

26 1.2.13 For people who cannot tolerate aminosalicylates, consider an oral
27 corticosteroid. **[2019]**

1 **All extents of disease**

2 1.2.14 For guidance on biologics for treating moderately to severely active
3 ulcerative colitis, see the NICE technology appraisal guidance on:

- 4
- 5 • [infliximab, adalimumab and golimumab for moderately to severely](#)
6 [active ulcerative colitis](#)
 - 7 • [vedolizumab for treating moderately to severely active ulcerative colitis.](#)
[2019]

To find out why the committee made the 2019 recommendations on inducing remission in mild to moderate ulcerative colitis and how they might affect practice, see [rationale and impact](#).

9 **Treating acute severe ulcerative colitis: all extents of disease**

10 **The multidisciplinary team**

11 1.2.15 For people admitted to hospital with acute severe ulcerative colitis:

- 12
- 13 • ensure that a gastroenterologist and a colorectal surgeon collaborate to
14 provide treatment and management
 - 15 • ensure that the composition of the multidisciplinary team is appropriate
16 for the age of the person
 - 17 • seek advice from a paediatrician with expertise in gastroenterology
18 when treating a child or young person
 - 19 • ensure that the obstetric and gynaecology team is included when
treating a pregnant woman. [2013]

20 **Step 1 therapy**

21 1.2.16 For people admitted to hospital with acute severe ulcerative colitis (either
22 a first presentation or an inflammatory exacerbation):

- 23
- 24 • offer intravenous corticosteroids to induce remission **and**
 - 25 • assess the likelihood that the person will need surgery (see
[recommendation 1.2.22](#)). [2013]

1 1.2.17 Consider intravenous ciclosporin⁴ or surgery for people:

- 2
- who cannot tolerate or who decline intravenous corticosteroids **or**
 - for whom treatment with intravenous corticosteroids is contraindicated.
- 3

4 Take into account the person's preferences when choosing treatment.

5 **[2013]**

6 ***Step 2 therapy***

7 1.2.18 Consider adding intravenous ciclosporin⁴ to intravenous corticosteroids or
8 consider surgery for people:

- 9
- who have little or no improvement within 72 hours of starting
10 intravenous corticosteroids **or**
 - whose symptoms worsen at any time despite corticosteroid treatment.
- 11

12 Take into account the person's preferences when choosing treatment.

13 **[2013]**

14 1.2.19 Infliximab is recommended as an option for the treatment of acute
15 exacerbations of severely active ulcerative colitis only in patients in whom
16 ciclosporin is contraindicated or clinically inappropriate, based on a careful
17 assessment of the risks and benefits of treatment in the individual patient.

18 **[2008]**

19 [This recommendation is from the NICE technology appraisal guidance on
20 [infliximab for acute exacerbations of ulcerative colitis](#) .]

21 1.2.20 In people who do not meet the criterion in 1.2.19, infliximab should only be
22 used for the treatment of acute exacerbations of severely active ulcerative
23 colitis in clinical trials. **[2008]**

⁴ At the time of consultation (December 2018), ciclosporin did not have a UK marketing authorisation for this indication. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's [Prescribing guidance: prescribing unlicensed medicines](#) for further information.

[This recommendation is from the NICE technology appraisal on [infliximab for acute exacerbations of ulcerative colitis](#).]

Monitoring treatment

1.2.21 Ensure that there are documented local safety monitoring policies and procedures (including audit) for adults, children and young people receiving treatment that needs monitoring (aminosalicylates, tacrolimus, ciclosporin, infliximab, azathioprine and mercaptopurine). Nominate a member of staff to act on abnormal results and communicate with GPs and people with ulcerative colitis and their family members or carers (as appropriate). **[2013]**

Assessing likelihood of needing surgery

1.2.22 Assess and document on admission, and then daily, the likelihood of needing surgery for people admitted to hospital with acute severe ulcerative colitis. **[2013]**

1.2.23 Be aware that there may be an increased likelihood of needing surgery for people with any of the following:

- stool frequency more than 8 per day
- pyrexia
- tachycardia
- an abdominal X-ray showing colonic dilatation
- low albumin, low haemoglobin, high platelet count or C-reactive protein (CRP) above 45 mg/litre (bear in mind that normal values may be different in pregnant women). **[2013]**

1.3 Information about treatment options for people who are considering surgery

These recommendations apply to anyone with ulcerative colitis considering elective surgery. The principles can also be applied to people requiring emergency surgery.

1 **Information when considering surgery**

2 1.3.1 For people with ulcerative colitis who are considering surgery, ensure that
3 a specialist (such as a gastroenterologist or a nurse specialist) gives the
4 person and their family members or carers (as appropriate) information
5 about all available treatment options, and discusses this with them.
6 Information should include the benefits and risks of the different
7 treatments and the potential consequences of no treatment. **[2013]**

8 1.3.2 Ensure that the person and their family members or carers (as
9 appropriate) have sufficient time and opportunities to think about the
10 options and the implications of the different treatments. **[2013]**

11 1.3.3 Ensure that a colorectal surgeon gives any person who is considering
12 surgery and their family members or carers (as appropriate) specific
13 information about what they can expect in the short and long term after
14 surgery, and discusses this with them. **[2013]**

15 1.3.4 Ensure that a specialist (such as a colorectal surgeon, a
16 gastroenterologist, an inflammatory bowel disease nurse specialist or a
17 stoma nurse) gives any person who is considering surgery and their family
18 members or carers (as appropriate) information about:

- 19
- 20 • diet
 - 21 • sensitive topics such as sexual function
 - 22 • effects on lifestyle
 - 23 • psychological wellbeing
 - 24 • the type of surgery, the possibility of needing a stoma and stoma care.
- 25 **[2013]**

26 1.3.5 Ensure that a specialist who is knowledgeable about stomas (such as a
27 stoma nurse or a colorectal surgeon) gives any person who is having
28 surgery and their family members or carers (as appropriate) specific
information about the siting, care and management of stomas. **[2013]**

1 Information after surgery

2 1.3.6 After surgery, ensure that a specialist who is knowledgeable about stomas
3 (such as a stoma nurse or a colorectal surgeon) gives the person and
4 their family members or carers (as appropriate) information about
5 managing the effects on bowel function. This should be specific to the
6 type of surgery performed (ileostomy or ileoanal pouch) and could include
7 the following:

- 8 • strategies to deal with the impact on their physical, psychological and
9 social wellbeing
- 10 • where to go for help if symptoms occur
- 11 • sources of support and advice. [2013]

12 1.4 *Maintaining remission in people with ulcerative colitis*

13 Proctitis and proctosigmoiditis

14 1.4.1 To maintain remission after a mild to moderate inflammatory exacerbation
15 of proctitis or proctosigmoiditis, consider the following options, taking into
16 account the person's preferences:

- 17 • a topical aminosalicylate⁵ alone (daily or intermittent) **or**
- 18 • an oral aminosalicylate⁶ plus a topical aminosalicylate⁵ (daily or
19 intermittent) **or**
- 20 • an oral aminosalicylate⁶ alone, explaining that this may not be as
21 effective as combined treatment or an intermittent topical
22 aminosalicylate alone. [2013]

⁵ At the time of consultation (December 2018), some topical aminosalicylates did not have a UK marketing authorisation for this indication in children and young people. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's [Prescribing guidance: prescribing unlicensed medicines](#) for further information.

⁶ At the time of consultation (December 2018), some oral aminosalicylates did not have a UK marketing authorisation for this indication in children and young people. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's [Prescribing guidance: prescribing unlicensed medicines](#) for further information.

1 **Left-sided and extensive ulcerative colitis**

2 1.4.2 To maintain remission in adults after a mild to moderate inflammatory
3 exacerbation of left-sided or extensive ulcerative colitis:

- 4
- offer a low maintenance dose of an oral aminosalicylate
 - when deciding which oral aminosalicylate to use, take into account the person's preferences, side effects and cost. **[2013]**
- 5
6

7 1.4.3 To maintain remission in children and young people after a mild to
8 moderate inflammatory exacerbation of left-sided or extensive ulcerative
9 colitis:

- 10
- offer an oral aminosalicylate^{6,7}
 - when deciding which oral aminosalicylate to use, take into account the person's preferences (and those of their parents or carers as appropriate), side effects and cost. **[2013]**
- 11
12
13

14 **All extents of disease**

15 1.4.4 Consider oral azathioprine⁸ or oral mercaptopurine⁸ to maintain remission:

- 16
- after 2 or more inflammatory exacerbations in 12 months that require treatment with systemic corticosteroids **or**
 - if remission is not maintained by aminosalicylates. **[2013]**
- 17
18

19 1.4.5 To maintain remission after a single episode of acute severe ulcerative
20 colitis:

- 21
- consider oral azathioprine⁸ or oral mercaptopurine⁸
 - consider oral aminosalicylates if azathioprine and/or mercaptopurine are contraindicated or the person cannot tolerate them. **[2013]**
- 22
23

⁷ Dosing requirements for children should be calculated by body weight, as described in the BNF.

⁸ Although use is common in UK clinical practice, at the time of consultation (December 2018) not all brands of azathioprine and mercaptopurine had a UK marketing authorisation for this indication. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's [Prescribing guidance: prescribing unlicensed medicines](#) for further information.

1 Dosing regimen for oral aminosalicylates

2 1.4.6 Consider a once-daily dosing regimen for oral aminosalicylates⁹ when
3 used for maintaining remission. Take into account the person's
4 preferences, and explain that once-daily dosing can be more effective, but
5 may result in more side effects. [2013]

6 1.5 *Pregnant women*

7 1.5.1 When caring for a pregnant woman with ulcerative colitis:

- 8
- 9 • Ensure effective communication and information-sharing across
10 specialties (for example, primary care, obstetrics and gynaecology, and
11 gastroenterology).
 - 12 • Give her information about the potential risks and benefits of medical
13 treatment to induce or maintain remission and of not having treatment,
14 and discuss this with her. Include information relevant to a potential
admission for an acute severe inflammatory exacerbation. [2013]

15 1.6 *Monitoring*

16 Monitoring bone health

17 *Adults*

18 1.6.1 For recommendations on assessing the risk of fragility fracture in adults,
19 refer to the NICE guideline on [osteoporosis: assessing the risk of fragility](#)
20 [fracture](#). [2013]

21 *Children and young people*

22 1.6.2 Consider monitoring bone health in children and young people with
23 ulcerative colitis in the following circumstances:

- 24
- 25 • during chronic active disease
 - after treatment with systemic corticosteroids

⁹ At the time of consultation (December 2018), not all oral aminosalicylates had a UK marketing authorisation for once-daily dosing. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's [Prescribing guidance: prescribing unlicensed medicines](#) for further information.

- 1
- after recurrent active disease. **[2013]**

2 **Monitoring growth and pubertal development in children and young people**

3 1.6.3 Monitor the height and body weight of children and young people with
4 ulcerative colitis against expected values on centile charts (and/or z
5 scores) at the following intervals according to disease activity:

- 6
- every 3–6 months:
 - 7 – if they have an inflammatory exacerbation and are approaching or
 - 8 undergoing puberty **or**
 - 9 – if there is chronic active disease **or**
 - 10 – if they are being treated with systemic corticosteroids
 - 11 • every 6 months during pubertal growth if the disease is inactive
 - 12 • every 12 months if none of the criteria above are met. **[2013]**

13 1.6.4 Monitor pubertal development in young people with ulcerative colitis using
14 the principles of Tanner staging, by asking screening questions and/or
15 carrying out a formal examination. **[2013]**

16 1.6.5 Consider referral to a secondary care paediatrician for pubertal
17 assessment and investigation of the underlying cause if a young person
18 with ulcerative colitis:

- 19
- has slow pubertal progress **or**
 - 20 • has not developed pubertal features appropriate for their age. **[2013]**

21 1.6.6 Monitoring of growth and pubertal development:

- 22
- can be done in a range of locations (for example, at routine
23 appointments, acute admissions or urgent appointments in primary
24 care, community services or secondary care)
 - 25 • should be carried out by appropriately trained healthcare professionals
26 as part of the overall clinical assessment (including disease activity) to
27 help inform the need for timely investigation, referral and/or
28 interventions, particularly during pubertal growth.

1 If the young person prefers self-assessment for monitoring pubertal
2 development, this should be allowed if possible and they should be
3 instructed on how to do this. [2013]

4 1.6.7 Ensure that relevant information about monitoring of growth and pubertal
5 development and about disease activity is shared across services (for
6 example, community, primary, secondary and specialist services). Apply
7 the principles in the NICE guideline on [patient experience in adult NHS](#)
8 [services](#) in relation to continuity of care. [2013]

9 ***Terms used in this guideline***

10 In this guideline, the categories of mild, moderate and severe are used to describe
11 ulcerative colitis:

- 12 • In adults these categories are based on the Truelove and Witts' severity index
13 (see Table 1). This table is adapted from the Truelove and Witts' criteria.
- 14 • In children and young people these categories are based on the Paediatric
15 Ulcerative Colitis Activity Index (PUCAI) (see Table 2).

16

1 **Table 1 Truelove and Witts' severity index**

	Mild	Moderate	Severe
Bowel movements (no. per day)	Fewer than 4	4–6	6 or more plus at least one of the features of systemic upset (marked with * below)
Blood in stools	No more than small amounts of blood	Between mild and severe	Visible blood
Pyrexia (temperature greater than 37.8°C) *	No	No	Yes
Pulse rate greater than 90 bpm *	No	No	Yes
Anaemia *	No	No	Yes
Erythrocyte sedimentation rate (mm/hour) *	30 or below	30 or below	Above 30

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3 **Table 2 Paediatric Ulcerative Colitis Activity Index (PUCAI)**

4 Disease severity is defined by the following scores:

- 5 • severe: 65 or above
- 6 • moderate: 35–64
- 7 • mild: 10–34
- 8 • remission (disease not active): below 10.

	Item	Points
1.	Abdominal pain	
	No pain	0
	Pain can be ignored	5
	Pain cannot be ignored	10
2.	Rectal bleeding	
	None	0
	Small amount only, in less than 50% of stools	10
	Small amount with most stools	20
	Large amount (50% of the stool content)	30
3.	Stool consistency of most stools	
	Formed	0
	Partially formed	5
	Completely unformed	10
4.	Number of stools per 24 hours	
	0–2	0
	3–5	5
	6–8	10
	>8	15
5.	Nocturnal stools (any episode causing wakening)	
	No	0
	Yes	10
6.	Activity level	
	No limitation of activity	0
	Occasional limitation of activity	5
	Severe restricted activity	10
	Sum of PUCAI (0–85)	

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2 with permission.

3 **Recommendations for research**

4 As part of the 2019 update, the guideline committee made an additional 3 research
5 recommendations on inducing remission in mild to moderate ulcerative colitis.

6 ***Key recommendations for research***

7 **1 The effectiveness of immunomodulators in inducing remission in proctitis**

8 In mild-to-moderate first presentation or inflammatory exacerbation of proctitis that is
9 resistant to standard treatment, what is the effectiveness of topical

1 immunomodulators, such as tacrolimus, in achieving clinical remission and what is
2 the most effective formulation (suppository/ointment)?

3 To find out why the committee made the research recommendation on
4 immunomodulators for proctitis see [rationale and impact](#).

5 **2 The effectiveness of immunomodulators in unresponsive ulcerative colitis**

6 What is the effectiveness of oral tacrolimus and systemic
7 (intramuscular/subcutaneous/oral) methotrexate in the induction of remission in mild-
8 to-moderate ulcerative colitis unresponsive to aminosalicylates?

9 To find out why the committee made the research recommendation on
10 immunomodulators for unresponsive ulcerative colitis see [rationale and impact](#).

11 **3 The relative effectiveness of corticosteroids for inducing remission in** 12 **ulcerative colitis**

13 What is the clinical and cost effectiveness of prednisolone, budesonide,
14 beclometasone in addition to aminosalicylates compared with each other and with
15 aminosalicylate monotherapy for the induction of remission for people with mild-to-
16 moderate ulcerative colitis?

17 To find out why the committee made the research recommendation on
18 corticosteroids for the induction of remission in mild-moderate ulcerative colitis see
19 [rationale and impact](#).

20 ***Other recommendations for research***

21 **Induction of remission for people with moderate ulcerative colitis:** 22 **prednisolone compared with aminosalicylates**

23 What is the clinical and cost effectiveness of prednisolone compared with
24 aminosalicylates for the induction of remission for people with moderate ulcerative
25 colitis?

1 **Induction of remission for people with moderate ulcerative colitis:**
2 **prednisolone compared with beclomethasone**

3 What is the clinical and cost effectiveness of prednisolone plus an aminosalicylate
4 compared with beclometasone plus an aminosalicylate for induction of remission for
5 people with moderate ulcerative colitis?

6 **Induction of remission for people with subacute ulcerative colitis that is**
7 **refractory to systemic corticosteroids**

8 What are the benefits, risks and cost effectiveness of methotrexate, ciclosporin,
9 tacrolimus, adalimumab and infliximab compared with each other and with placebo
10 for induction of remission for people with subacute ulcerative colitis that is refractory
11 to systemic corticosteroids?

12 **Rationale and impact**

13 This section briefly explains why the committee made the recommendations and how
14 they might affect practice. It links to details of the evidence and a full description of
15 the committee's discussion.

16 ***Inducing remission in people with mild-to-moderate ulcerative***
17 ***colitis***

18 Recommendations [1.2.1 to 1.2.14](#)

19 **Why the committee made the recommendations**

20 ***Proctitis***

21 The evidence showed that topical aminosalicylates (suppositories or enema) are the
22 most effective treatments for achieving remission in people with mild-to-moderate
23 proctitis, so these were recommended as first-line treatments. The evidence did not
24 show any difference in effectiveness between enema and suppository.

25 Topical aminosalicylates alone are recommended for up to 4 weeks because the
26 evidence showed that they were the most effective treatment within this timeframe.
27 There was no direct evidence for combining topical and oral aminosalicylates for
28 people with proctitis. However, evidence showed that this combination was effective
29 for people with proctosigmoiditis, and the committee agreed that this evidence was

1 also applicable to people with proctitis alone. The committee chose not to specify a
2 dose for the oral aminosalicylate, leaving this open to clinical judgment depending on
3 the specific situation. For example, the clinician could give a low dose if the person
4 had not taken an aminosalicylate before, or a high dose if the person was already
5 taking a low dose.

6 Some people will not achieve remission with topical and oral aminosalicylates. In
7 clinical practice, oral or topical corticosteroids are commonly added at this stage, but
8 there was no evidence on this combination. Despite no direct evidence for the
9 effectiveness of topical or oral corticosteroids, the committee agreed that, based on
10 their experience, these should be recommended to people who cannot tolerate
11 aminosalicylates.

12 As the evidence showed that oral aminosalicylates are not as effective at inducing
13 remission, the committee thought it was important to explain this to people who
14 decline topical aminosalicylates. From the committee's experience, they agreed to
15 consider a topical or an oral corticosteroid in people who cannot tolerate
16 aminosalicylates.

17 Cost-effectiveness evidence showed that using an immunomodulator as the next line
18 of treatment after oral or topical corticosteroids and oral aminosalicylates produced
19 greater health benefits at lower total costs than other strategies. However, the
20 clinical evidence on topical immunomodulators was limited and it was unclear how
21 applicable it was to UK clinical practice. Because of this, the committee
22 recommended the sequence without this final treatment, and recommended further
23 research on topical immunomodulators.

24 ***Proctosigmoiditis or left-sided ulcerative colitis***

25 There is evidence that topical aminosalicylates are effective for achieving remission
26 in people with mild-to-moderate proctosigmoiditis or left-sided ulcerative colitis, so
27 these are recommended as first-line treatment. Cost-effectiveness evidence showed
28 that treatment sequences starting with topical aminosalicylates produced greater
29 health benefits and incurred lower total costs than other strategies.

30 There is no direct evidence for the effectiveness of high-dose oral aminosalicylates
31 combined with either topical aminosalicylates or topical corticosteroids. However,

1 there is evidence that topical or high-dose oral aminosaliculates individually provide
2 some benefit. Therefore, the committee agreed it was reasonable to recommend
3 combinations of these if remission is not achieved. While there was limited evidence
4 for oral corticosteroids, in the committee's experience an oral corticosteroid may
5 benefit people with proctosigmoiditis or left-sided disease if further treatment is
6 needed. As a result, they recommended oral corticosteroids with oral
7 aminosaliculates instead of topical treatment for these people. This reflects current
8 practice for people who do not achieve remission with topical treatments and
9 high-dose oral aminosaliculates.

10

11 In people who cannot tolerate aminosaliculates, topical or oral corticosteroids are
12 recommended as they are also an effective treatment option.

13 ***Extensive ulcerative colitis***

14 The evidence showed that people with mild-to-moderate extensive ulcerative colitis
15 would benefit most from a combination of high-dose oral aminosaliculates with
16 topical aminosaliculates as first-line treatment. There is evidence that an oral
17 corticosteroid combined with a high-dose oral aminosaliculate is also effective, so the
18 committee recommended this combination if remission is not achieved with
19 aminosaliculates alone. In people who cannot tolerate aminosaliculates, oral
20 corticosteroids are recommended as they are also an effective treatment option.

21 The sequence of drugs recommended was more effective than starting with a high-
22 dose oral aminosaliculate alone. There was some uncertainty around the cost
23 effectiveness of this sequence. The data on the effectiveness of high-dose oral
24 aminosaliculates combined with topical aminosaliculates was from an 8-week clinical
25 trial. The committee believed that in practice, people whose disease did not respond
26 to treatment within 4 weeks would switch to another treatment. When the cost-
27 effectiveness analysis allowed for early switching, the combination of a high-dose
28 oral aminosaliculate and topical aminosaliculate was not cost effective. However, if it
29 was assumed that everyone continued treatment as described in the trial, the
30 combination of a high-dose oral aminosaliculate and topical aminosaliculate was
31 more likely to be cost effective. The committee agreed that although allowing for

1 early switching was a better reflection of clinical practice, the other approach to the
2 analysis more closely reflected the trial data.

3 There was some evidence on methotrexate for inducing remission, but it did not
4 show a clear benefit. There was no evidence found on oral tacrolimus so the
5 committee recommended further research to address the effectiveness of tacrolimus
6 and methotrexate.

7 **All extents of disease**

8 There was limited evidence from paediatric populations, and the committee agreed
9 that it is reasonable to generalise the recommendations made to all ages.

10 There is limited evidence on oral corticosteroids. In addition, the committee agreed
11 that the use of oral corticosteroid is generally reserved for later lines of treatment
12 because of concerns about side effects. It is not clear which corticosteroid is most
13 effective for each extent of disease. There is also limited evidence on
14 immunomodulators, specifically oral tacrolimus and systemic methotrexate for each
15 extent of disease. The committee recommended further research to address these
16 uncertainties.

17 **How the recommendations might affect practice**

18 The new recommendations classify the extents of ulcerative colitis differently. This
19 will be clearer and more informative for people with mild-to-moderate ulcerative
20 colitis and healthcare professionals. It more closely reflects current practice.

21 The recommendations in the 2013 guideline referred to specific corticosteroids. To
22 better reflect the available evidence, the updated recommendations refer to
23 corticosteroids as a class rather than recommending individual corticosteroids. This
24 allows healthcare professionals and people with mild-to-moderate ulcerative colitis to
25 choose the most appropriate corticosteroid, depending on patient preference,
26 availability and acquisition cost.

27 Full details of the evidence and the committee's discussion are in [evidence review:](#)
28 [induction of remission in mild-moderate ulcerative colitis](#).

1 **Context**

2 Ulcerative colitis is the most common type of inflammatory disease of the bowel. It
3 has an incidence in the UK of approximately 10 per 100,000 people annually, and a
4 prevalence of approximately 240 per 100,000. This amounts to around
5 146,000 people in the UK with a diagnosis of ulcerative colitis. The cause of
6 ulcerative colitis is unknown. It can develop at any age, but peak incidence is
7 between the ages of 15 and 25 years, with a second, smaller peak between 55 and
8 65 years (although this second peak has not been universally demonstrated).

9 Ulcerative colitis usually affects the rectum, and a variable extent of the colon
10 proximal to the rectum. The inflammation is continuous in extent. Inflammation of the
11 rectum is referred to as proctitis, and inflammation of the rectum and sigmoid as
12 proctosigmoiditis. Left-sided colitis refers to disease involving the colon distal to the
13 splenic flexure. Extensive colitis affects the colon proximal to the splenic flexure, and
14 includes pan-colitis, where the whole colon is involved.

15 Symptoms of active disease or relapse include bloody diarrhoea, an urgent need to
16 defecate and abdominal pain.

17 Ulcerative colitis is a lifelong disease that is associated with significant morbidity. It
18 can also affect a person's social and psychological wellbeing, particularly if poorly
19 controlled. Typically, it has a relapsing–remitting pattern.

20 Current medical approaches focus on treating active disease to address symptoms,
21 to improve quality of life, and thereafter to maintain remission. The long-term benefits
22 of achieving mucosal healing remain unclear. The treatment chosen for active
23 disease is likely to depend on clinical severity, extent of disease and the person's
24 preference, and may include the use of aminosalicylates, corticosteroids or biological
25 drugs. These drugs can be oral or topical (into the rectum), and corticosteroids may
26 be administered intravenously in people with acute severe disease. Surgery may be
27 considered as emergency treatment for severe ulcerative colitis that does not
28 respond to drug treatment. People may also choose to have elective surgery for
29 unresponsive or frequently relapsing disease that is affecting their quality of life.

1 Advice and support for people with ulcerative colitis is important, in terms of
2 discussing the effects of the condition and its course, medical treatment options, the
3 effects of medication and the monitoring required. Around 10% of inpatients with
4 inflammatory bowel disease reported a lack of information about drug side effects on
5 discharge from hospital. Information to support decisions about surgery is also
6 essential, both for clinicians and for people facing the possibility of surgery. This
7 includes recognising adverse prognostic factors for people admitted with acute
8 severe colitis to enable timely decisions about escalating medical therapy or
9 predicting the need for surgery. It is also very important to provide relevant
10 information to support people considering elective surgery.

11 The wide choice of drug preparations and dosing regimens, the judgement required
12 in determining the optimum timing for surgery (both electively and as an emergency)
13 and the importance of support and information may lead to variation in practice
14 across the UK. This guideline aims to address this variation, and to help healthcare
15 professionals to provide consistent high-quality care. Managing ulcerative colitis in
16 adults and children overlaps in many regards, so the guideline incorporates advice
17 that is applicable to children and young people, which again should help to address
18 potential inconsistencies in practice.

19 **Finding more information and resources**

20 To find out what NICE has said on topics related to this guideline, see our web page
21 on [inflammatory bowel disease](#).

22 **Update information**

23 This guideline is an update of NICE guideline CG166 (published June 2013) and will
24 replace it.

25 We have reviewed the evidence on inducing remission for people with mild-to-
26 moderate ulcerative colitis.

27 Recommendations are marked **[2019]** if the evidence has been reviewed.

1 ***Recommendations that have been deleted or changed***

2 We propose to delete some recommendations from the 2013 guideline. [Table 1](#) sets
3 out these recommendations and includes details of replacement recommendations.

4 If there is no replacement recommendation, an explanation for the proposed deletion
5 is given.

6 In recommendations shaded in grey and ending **[2008]** or **[2013]**, we have not
7 reviewed the evidence. In some cases minor changes have been made, for example,
8 to update links or bring the language and style up to date without changing the intent
9 of the recommendation. Minor changes are listed in [table 2](#).

10 See also the [previous NICE guideline and supporting documents](#).

1 Table 1 Recommendations that have been deleted

Recommendation in 2013 guideline	Comment
<p>1.2.1 To induce remission in people with a mild to moderate first presentation or inflammatory exacerbation of proctitis or proctosigmoiditis:</p> <ul style="list-style-type: none"> • offer a topical aminosalicylate alone (suppository or enema, taking into account the person's preferences) or • consider adding an oral aminosalicylate to a topical aminosalicylate or • consider an oral aminosalicylate alone, taking into account the person's preferences and explaining that this is not as effective as a topical aminosalicylate alone or combined treatment. [2013] 	<p>Replaced by: Recommendations 1.2.1–14</p>
<p>1.2.2 To induce remission in people with a mild to moderate first presentation or inflammatory exacerbation of proctitis or proctosigmoiditis who cannot tolerate or who decline aminosalicylates, or in whom aminosalicylates are contraindicated:</p> <ul style="list-style-type: none"> • offer a topical corticosteroid or • consider oral prednisolone, taking into account the person's preferences. [2013] 	
<p>1.2.3 To induce remission in people with subacute proctitis or proctosigmoiditis, consider oral prednisolone, taking into account the person's preferences. [2013]</p>	

<p>1.2.4 To induce remission in adults with a mild to moderate first presentation or inflammatory exacerbation of left-sided or extensive ulcerative colitis:</p> <ul style="list-style-type: none"> • offer a high induction dose of an oral aminosalicylate • consider adding a topical aminosalicylate or oral beclometasone dipropionate, taking into account the person's preferences. [2013] 	
<p>1.2.5 To induce remission in children and young people with a mild to moderate first presentation or inflammatory exacerbation of left-sided or extensive ulcerative colitis:</p> <ul style="list-style-type: none"> • offer an oral aminosalicylate, • consider adding a topical aminosalicylate or oral beclometasone dipropionate, taking into account the person's preferences (and those of their parents or carers as appropriate). [2013] 	
<p>1.2.6 To induce remission in people with a mild to moderate first presentation or inflammatory exacerbation of left-sided or extensive ulcerative colitis who cannot tolerate or who decline aminosalicylates, in whom aminosalicylates are contraindicated or who have subacute ulcerative colitis, offer oral prednisolone. [2013]</p>	
<p>1.2.7 Consider adding oral prednisolone to aminosalicylate therapy to induce remission in people with mild to moderate ulcerative colitis if there is no improvement within 4 weeks of starting step 1 aminosalicylate therapy or if symptoms worsen despite treatment. Stop beclometasone dipropionate if adding oral prednisolone. [2013]</p>	

<p>1.2.8 Consider adding oral tacrolimus to oral prednisolone to induce remission in people with mild to moderate ulcerative colitis if there is an inadequate response to oral prednisolone after 2–4 weeks. [2013]</p>	
<p>1.2.9 For guidance on infliximab for treating subacute ulcerative colitis (all extents of disease), refer to Infliximab for subacute manifestations of ulcerative colitis (NICE technology appraisal guidance 140). [2013]</p>	

1

2 **Table 2 Minor changes to recommendation wording (no change to intent)**

Recommendation numbers in current guideline	Comment
<p>All recommendations except those labelled [2019]</p>	<p>Recommendations have been edited into the direct style (in line with current NICE style for recommendations in guidelines) where possible.</p>

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