

High rates of oral 5-aminosalicylic acid co-prescription with advanced therapy in patients with ulcerative colitis

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Northern Health INTRODUCTION

- 5-aminosalicylates (5-ASA) is the first-line treatment for inducing and maintaining remission in patients with mild to moderate ulcerative colitis (UC).
- The additive role of 5-ASA therapy after advanced therapy is initiated is minimal^[1].
- The cost of 5-ASA therapy can be significant with annual per patient costs of up to \$3469.

AIMS

We aimed to quantify the co-prescription of oral 5-ASAs with advanced therapies in UC, evaluate associations with disease activity and estimate annual costs.

METHODS

- Retrospective observational study of all consecutive adult patients with UC receiving advanced therapy from a single tertiary IBD centre.
- Data collection included patient and disease characteristics, 5-ASA and advanced therapy type, dose and duration and objective disease activity (most recent intestinal ultrasound [IUS], faecal calprotectin [FCP] and endoscopy within 12 months).
- Biochemical remission was defined as FCP <150 μg/g.
- Sonographic remission was defined as normal bowel wall thickness without hyperaemia.
- Endoscopic remission was defined as Mayo endoscopic subscore of 0.
- · Histological remission was defined as the absence of active neutrophilic infiltrates.

RESULTS

- 230 patients were included in the analysis.
- 42% female, median age 40 years, median disease duration 96 months.
- Concurrent oral 5-ASA therapy was used in 116 patients (50%) for a median duration of 42 months (IQR 11–59), including 19 overlapping months with the most recent advanced therapy.
- The majority (89%) remained on maximal induction doses and annual average costs were estimated at \$3469.73 per patient.
- Almost 2/3rds of patients remaining on 5-ASAs were in biochemical and/or sonographic remission and 1/3rd were in endoscopic and histological remission.
- Rates of 5-ASA co-prescription varied by type of advanced therapy,
 being most common with Vedolizumab (31.9%), followed by intravenous
 Infliximab (21.6%) and Upadacitinib (14.7%).
- Combination oral 5-ASA and advanced therapy was associated with topical 5-ASA use (p = 0.002) and shorter duration on current advanced therapy (p = 0.03) compared to those on an advanced therapy alone.
- No significant differences in clinical, biochemical, endoscopic, or histologic disease activity were observed between patients receiving advanced therapy alone and those receiving advanced therapy plus 5-ASA (Table 1).

	Advanced Therapy	Advanced therapy + 5-ASA	
Characteristic	(n = 114)	(n = 116)	p value
Age, median (IQR)	(n = 114) 40 (27–53)	(n = 116) 39 (30–55)	0.20
Female	55 (48.2%)	41 (35.3%)	0.20
Disease duration	33 (40.270)	41 (00.070)	0.00
(months)	72 (33–113)	66 (32–117)	0.58
Duration of current			
advanced therapy	20 (11–42)	18 (8–30)	0.03
(months)			
Advanced therapy type			
infliximab IV	16 (14.0%)	25 (21.6%)	0.168
infliximab SC	16 (14.0%)	5 (4.3%)	0.011
adalimumab	2 (1.7%)	0 (0%)	0.24
golimumab	1 (0.8%)	2 (1.7%)	>0.99
vedolizumab IV	38 (33.3%)	37 (31.9%)	>0.99
vedolizumab SC	8 (7.0%)	8 (6.9%)	>0.99
upadacitinib	17 (14.9%)	17 (14.7%)	>0.99
ustekinumab	12 (10.5%)	12 (10.3%)	>0.99
tofacitinib	3 (2.6%)	8 (6.9%)	0.21
ozanimod	0 (0%)	1 (0.8%)	>0.99
etrasimod	0 (0%)	1 (0.8%)	>0.99
infliximab + stelara	1 (0.8%)	0 (0%)	>0.99
Previous advanced	, ,		0.00
therapy	61 (63.5%)	63 (54.3%)	0.99
Topical 5-ASA use	12 (10.5%)	31 (26.7%)	0.002
Clinical remission	97 (85.1%)	87 (75.0%)	0.06
FCP (µg/g)	48 (14–281)	70 (20–240)	0.63
FCP < 150 µg/g	76 (66.6 %)	79 (68.1%)	>0.99
IUS remission	19/24 (79.2%)	22/35 (62.9%)	0.25
Endoscopic remission	51 (44.7%)	38 (33.0%)	0.07
Histological remission	51 (44.7%)	41 (35.6%)	0.17

Table 1. Patient, disease and medication characteristics according to 5-ASA co-prescription with advanced therapies. Values presented as median (IQR) or number (%), unless specified.

CONCLUSIONS

- Co-prescription of 5-ASAs and advanced therapies is common despite high rates of objective remission.
- No significant differences in clinical, biochemical, endoscopic, or histologic disease activity were observed in patients remaining on 5-ASA therapy vs those on advanced therapy alone
- Identifying patients suitable for a trial of 5-ASA withdrawal may allow reductions in healthcare expenditure and improve adherence.