

Degree of Histological Activity is not Associated with Vedolizumab Therapy Outcome in Ulcerative Colitis

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BACKGROUND

- Histological inflammation is known to be associated with increased risk of disease relapse in patients with ulcerative colitis (UC).
- We aimed to determine if there is an association between histological activity at time of VDZ initiation and outcome of therapy.

METHOD

- We performed a retrospective review of UC patients treated with VDZ who had undergone an endoscopic assessment prior to therapy commencement.

METHOD CONT

- Endoscopic biopsies were retrieved and scored for histological activity using the Geboes Score (GS).
- For analyses of primary endpoint, the cohort was dichotomised around a GS grade of 5.
- Primary endpoint was VDZ therapy outcome. Secondary endpoints included association between GS and MES and a combined endoscopic and histological endpoint (MES = 3 & GS grade 5) and VDZ therapy outcome.

RESULTS

- 33 patients were included.
- Median age was 44.3 years, 36% of patients were male.
- Endoscopic Mayo score and GS grade are summarised in Table 1
- Median time between endoscopy and commencing VDZ therapy was 9 weeks (1.6 – 55.0).
- Median study follow-up was 68 weeks (6.1 – 228.7).
- GS grade was significantly associated with MES (p=0.04) (Figure 1)
- GS grade was not associated with time to discontinuation of VDZ (p=0.64) (Figure 2).
- Combined endoscopic and histological endpoint was not associated with time to discontinuation of VDZ (p=0.43).
- The presence of lamina propria eosinophils was not associated with time to discontinuation of VDZ (p=0.92).

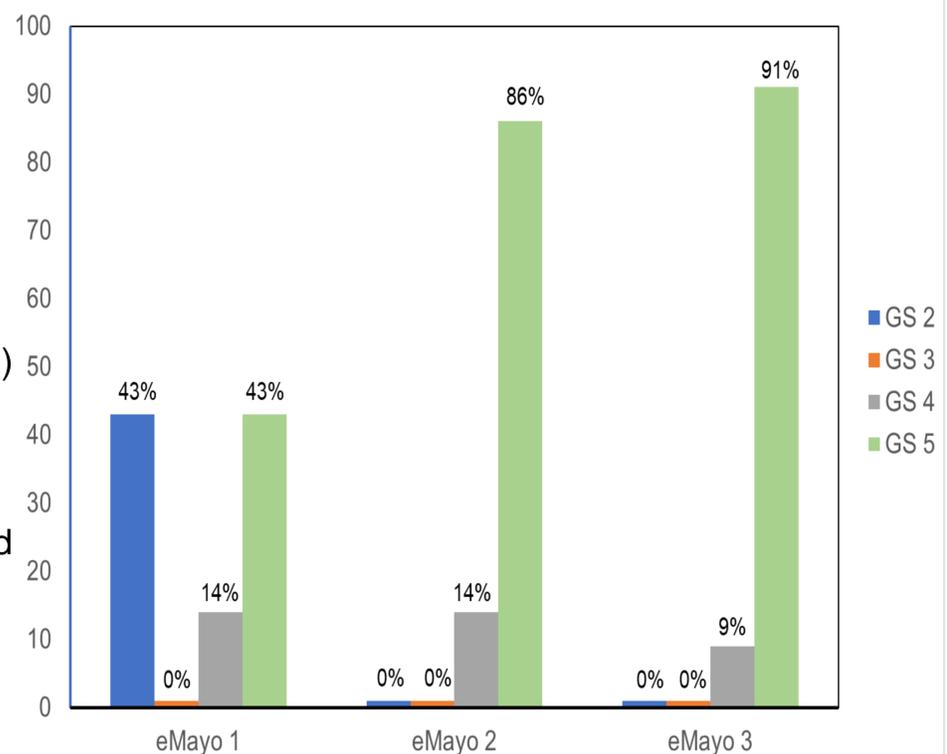


Figure 1: Association between Mayo and Geboes Score

Endoscopic Mayo Score (%)	
0	3%
1	21%
2	42%
3	33%
Geboes Score Grade (%)	
0	0%
1	0%
2	9%
3	0%
4	12%
5	79%

Table 1: Endoscopic and histologic scores

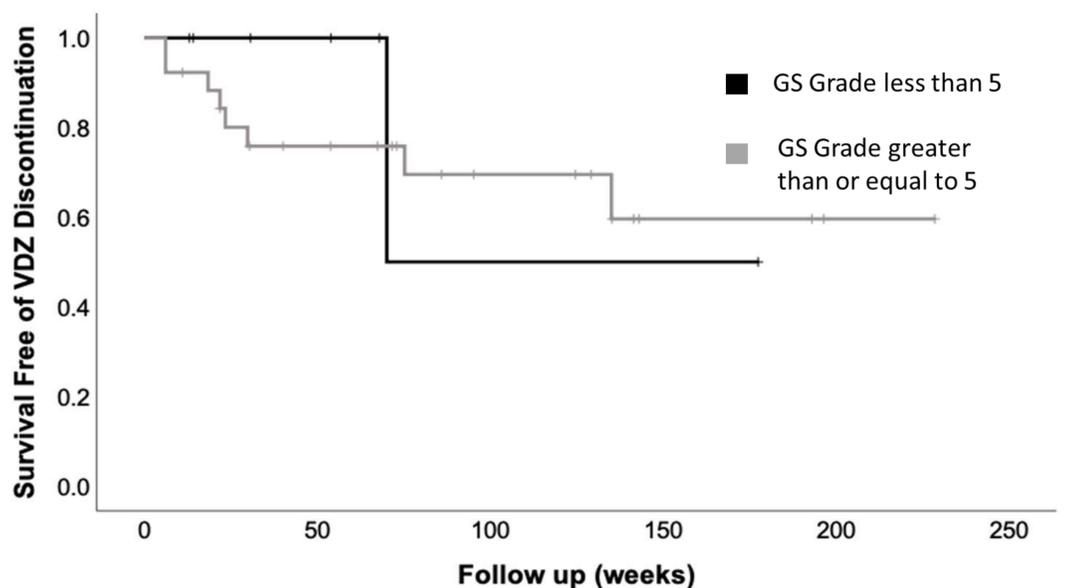


Figure 2: Time to discontinuation of VDZ dependent on GS

CONCLUSION

- GS grade is associated significantly with MES which has been demonstrated previously.
- Neither histological activity alone nor in combination endoscopic activity were associated with outcome of VDZ therapy.
- Assessment of histological activity does not appear to provide additional information when selecting patients for VDZ therapy.