

PROACTIVE TDM IS SUPERIOR TO CONVENTIONAL MANAGEMENT IN IBD

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CONFLICTS OF INTEREST

The authors have no conflicts of interest to declare



BACKGROUND

- \checkmark Therapeutic drug monitoring (TDM) of anti-TNF therapies is recommended
 - upon secondary loss of response to guide clinical decision-making. ¹⁻²
- \checkmark There is insufficient data supporting the use of proactive TDM in IBD. $^{3-4}$

Aims of the study

To evaluate the clinical and endoscopic outcomes of a proactive TDM strategy

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METHODS

- Prospective comparative single center study
- Inclusion criteria: Patients completing Infliximab induction (3 doses)

Proactive cohort (pTDM)

- Bf 4th infusion and every 2 infusions:
 - Trough levels and anti-drug antibodies
 - Proactive escalation

Crohn's disease	3-7 ug/ml
Ulcerative colitis	5-10 ug/ml

Theradiag ${\ensuremath{\mathbb R}}$, Lisa Tracker

Comparative cohort (noTDM)

- Inclusion: 2000-2014
- No therapeutic drug monitoring

Outcomes: 2 years



Exclusion criteria

Primary non-response

Episodic treatment

Major IBD surgery

Drug holiday



Crohn's disease

ECCO







RESULTS

Regression analysis

Multivariate analysis	Odds ratio [95% CI]	Р	
Mucosal healing			
Immunomodulator use	2.291 [1.287-4.080]	0.005	
TDM strategy	3.173 [1.642-6.129]	0.001	
Surgery			
TDM strategy	0.355 [0.133-0.949]	0.039	
Any unfavorable outcome			
Immunomodulator use	0.502 [0.277-0.910]	0.023	
TDM strategy	0.394 [0.213-0.728]	0.003	

Other variables:

Gender, age, IBD type, prior anti-TNF



CONCLUSION

- ✓ Up to 25% of patients with CD and almost 50% with UC presented infratherapeutic trough levels;
- Patients with proactive TDM had lower rates of surgery and unfavorable outcomes and higher rates of mucosal healing than patients under conventional management.