

2-week study. Placebo-controlled, double-blind randomized trial. Refractory active UC patients randomised to:  
 - Tacrolimus 0.05mg/kg, high trough (HT) (levels 10-15ng/ml) vs low-trough (LT) (5-10ng/ml) or placebo. Followed by an open-label 10 week extension in which all patients received tacrolimus.

Primary endpoint: improvement of DAI score w2, w10

#### Results:

- Improvement of DAI at w2, 68.4% in HT vs 10% placebo,  $p < 0.001$
- OLE at w10, 55.2% improved DAI
- Higher incidence of side effects in the HT than placebo.

#### Conclusions:

A dose dependent efficacy and safety of oral tacrolimus for remission-induction therapy of refractory UC was observed. The optimal target range appears to be 10–15 ng/ml in terms of efficacy with two week therapy.

**Table 4** Clinical responses to therapy in the two week double blind study

Clinical response*	High trough group	Low trough group	Placebo group
<b>No of patients (%)</b>			
(n = 60)†	19	21	20
Complete	0 (0)	0 (0)	0 (0)
Partial	13 (68.4) ( $p < 0.001$ §)	8 (38.1) ( $p = 0.067$ ¶)	2 (10.0)
None	6 (31.6)	13 (61.9)	18 (90.0)
<b>Severe patients (DAI score 10–12)</b>			
(n = 27)	6	10	11
Complete	0 (0)	0 (0)	0 (0)
Partial	4 (66.7) ( $p = 0.086$ §)	5 (50.0) ( $p = 0.219$ ¶)	2 (18.2)
None	2 (33.3)	5 (50.0)	9 (81.8)
<b>Moderate patients (DAI score 6–9)</b>			
(n = 33)	13	11	9
Complete	0 (0)	0 (0)	0 (0)
Partial	9 (69.2) ( $p = 0.002$ §)	3 (27.3) ( $p = 0.155$ ¶)	0 (0)
None	4 (30.8)	8 (72.7)	9 (100.0)
<b>Steroid resistant‡</b>			
(n = 15)	5	5	5
Complete	0 (0)	0 (0)	0 (0)
Partial	4 (80.0) ( $p = 0.106$ §)	2 (40.0) ( $p = 0.718$ ¶)	1 (20.0)
None	1 (20.0)	3 (60.0)	4 (80.0)
<b>Steroid dependent</b>			
(n = 45)	14	16	15
Complete	0 (0)	0 (0)	0 (0)
Partial	9 (64.3) ( $p = 0.002$ §)	6 (37.5) ( $p = 0.074$ ¶)	1 (6.7)
None	5 (35.7)	10 (62.5)	14 (93.3)

