## RCT/AZA&allopurinol/UC/ Maintain

Open-label, unblinded, randomised, controlled investigator-initiated, multicentre study.

Adult patients with active moderate to severe UC steroid dependent/refractory with normal TPMT who achieved remission with steroids or infliximab were randomized to low dose azathioprine (L-AZA median dose 50mg) +allopurinol (ALLO) 100mg vs AZA monotherapy (median dose 200mg).

\*IFX could be used up to week 26 at which time it had to be discontinued if in clinical remission.

Primary endpoints: Steroid and infliximab free remission at week 52

## Results: N=89

- Remission at week 52, 43% L-AZA-ALLO vs 21% AZA, p<0.0048.
- No differences were observed in endoscopic and histologic remisionn (endoscopic data only available of those who stayed on the therapy for 52 weeks)
- Drug withdrawal due to side effects occurred in 30% L-AZA-ALLO vs 38% AZA.
- Use of IFX before week 26 did not predict remission, p=0.602

## Conclusion:

L-AZA/ALLO therapy was associated with a beneficial effect on steroid and infliximab-free clinical remission in patients with moderate-to-severe UC.

Low-dose azathioprine and allopurinol versus azathioprine monotherapy in patients with ulcerative colitis (AAUC): An investigator-initiated, open, multicenter, parallel-arm, randomised controlled trial

Outcomes	AZA/ALLO n = 47	AZA n = 42	P value	Odds Ratio	95% CI
Primary outcome					
Remission	20 (43%)	9 (21%)	0-048	2.54	1.00-6.78
Secondary outcomes					
Total Mayo score < 3	22 (47%)	13 (31%)	0.034	1.54	1.01-2.36
Endoscopic Mayo 0	19 (41%)	8 (19%)	0-072	0.64	0.13-3.13
Histological score 0	16 (34%)	7 (17%)	0.362	2.00	0.45-8.98
6TGN Week 6	454 (341-568)	330 (207-412)	0.001		
6-TGN Week 52	475 (356-594)	303 (199-401)	0.001		
MeMP Week 6	246 (156-299)	3134 (1836-5987)	0.001		
MeMP Week 52	113 (66-267)	3305 (1334-6153)	0.001		
Calprotectin	121 (30-1210)	49 (30-1800)	0.757		
SIBDQ	57 (36-68)	55 (47-65)	0-621		
SHS	61 (14-279)	73 (27-117)	0-396		

Table 2: Primary and secondary outcomes in patients allocated to L-azathioprine (L-AZA)/ allopurino I (ALLO) versus AZA at week 52 (n = number of patients) in intention to treat analysis. The table shows the median (25th to 75th percentile) 6-thioguanine (TGN) and methylmercaptopurine (MeMP) levels (pmol/8  $\times$  10<sup>8</sup> RBC) at week 6 and week 52, calprotectin (mg/kg) at week 52 and the two health-related quality of life scores at week 52 short inflammatory bowel disease questionnaire (SIBDQ) and short health scale (SHS).

