

Switching from originator infliximab to biosimilar CT-P13 compared with maintained treatment with originator infliximab (NOR-SWITCH): a 52-week, randomised, double-blind, non-inferiority trial

Non inferiority, double blind phase 4 trial.

52 weeks follow-up.

Different autoimmune diseases treated with IFX randomised to switched to biosimilar CT-P13 or to remain on IFX originator.

Primary endpoint: disease worsening during follow-up

Secondary endpoints: time to disease worsening; study drug discontinuation; overall remission; changes in CRP and ESR.

Results:

- Overall disease worsening: 26% IFX vs 30% CT-P13, p=ns
- No differences in disease worsening or adverse events

Conclusions:

Switching from IFX originator to CT-P13 was not inferior to continued treatment with IFX originator.

	Baseline		52 weeks		Difference at 52 weeks (95% CI)
	Infliximab originator (n=202)	CT-P13 (n=206)	Infliximab originator (n=202)	CT-P13 (n=206)	
Change variables*					
Physician's global assessment of disease activity	1.2 (1.2)	1.2 (1.3)	0.1 (1.6)	0.1 (1.6)	-0.15 (-0.39 to 0.09)
Patient's global assessment of disease activity	2.0 (1.9)	2.2 (2.0)	0.4 (1.9)	0.3 (2.2)	-0.04 (-0.37 to 0.29)
Erythrocyte sedimentation rate (mm/h), log10	0.9 (0.4)	0.9 (0.4)	0 (0.3)	0 (0.3)	-0.02 (-0.06 to 0.03)
C-reactive protein (mg/L), log10	0.4 (0.4)	0.4 (0.4)	0 (0.3)	0 (0.4)	-0.02 (-0.09 to 0.04)
Calprotectin (mg/kg), log10	1.8 (0.6)	1.9 (0.7)	0 (0.5)	0.1 (0.5)	0.03 (-0.12 to 0.18)
Harvey-Bradshaw Index (Crohn's disease)	2.6 (2.4)	2.6 (2.4)	0.3 (2.3)	0.5 (3.1)	-0.41 (-1.14 to 0.33)
Partial Mayo score (ulcerative colitis)	0.6 (1.3)	0.6 (1.3)	0.1 (1.3)	-0.2 (1.7)	0.14 (-0.30 to 0.59)
ASDAS (spondyloarthritis)	1.7 (0.7)	2.1 (0.8)	0.1 (0.6)	-0.2 (0.7)	-0.01 (-0.27 to 0.24)
DAS28 (rheumatoid arthritis and psoriatic arthritis)	2.5 (1.0)	2.2 (0.9)	0.3 (1.0)	0.1 (0.9)	0.27 (-0.07 to 0.61)
CDAI (rheumatoid arthritis and psoriatic arthritis)	5.0 (3.5)	4.0 (3.1)	1.5 (5.5)	0.7 (3.9)	1.29 (-0.35 to 2.94)
SDAI (rheumatoid arthritis and psoriatic arthritis)	5.4 (3.5)	4.5 (3.1)	1.6 (5.7)	0.7 (4.4)	1.09 (-0.68 to 2.86)
PASI (chronic plaque psoriasis)	2.2 (1.9)	3.1 (1.7)	-0.5 (1.9)	-0.4 (1.9)	-0.28 (-1.10 to 0.55)
State variables†					
HBI remission (Crohn's disease)	41 (62%)	43 (68%)	46 (70%)	41 (65%)	6.1% (-9.6 to 21.9)
PMS remission (ulcerative colitis)	30 (91%)	38 (90%)	29 (88%)	39 (93%)	-5.0% (-18.6 to 8.6)

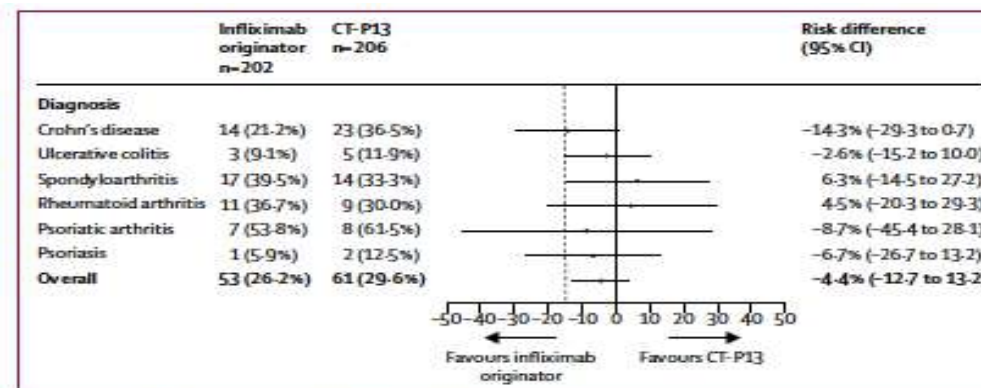


Figure 2: Forest plot of risk difference according to disease

