# International IBD Genetics Consortium

## PRED4

## **Thiopurine Induced Leucopaenia**

## **Case Report Form**

Please stick study label here

On completion, please return to: Tracey Hill / Claire Bewshea Inflammatory Bowel Disease Research Office Room 422 Noy Scott House Royal Devon & Exeter Hospital (Wonford) Barrack Road, Exeter, EX2 5DW, UK

### Thiopurine Induced Leucopaenia Introduction

Please complete all boxes where indicated and in black ball point pen.

If you make a mistake please put a line through the box, initial and date and write answer to the side.

Complete dates in format dd/mm/yyyy

The patient identification number is the bar code on the front of the CRF. Please transcribe this on to the top of the page in each relevant section.

For study inclusion participants must meet all the major criteria and any number of the additional minor criteria.

#### \*Drug causes of leucopaenia

- Allopurinol
- Antithyroid drugs (thionamides Methimazole, Carbimazole, Propylthiouracil)
- Anti-inflammatory drugs (Sulfasalazine, Nonsteroidal anti-inflammatory drugs [NSAIDs], Penicillamine)
- Psychotropic drugs (Clozapine, Phenothiazines, Tricyclic and tetracyclic antidepressant)
- Gastrointestinal drugs (Sulfasalazine, Histamine H2- receptor antagonists)
- Cardiovascular drugs (Antiarrhythmic agents (tocainide, procainamide, flecainide), ACE inhibitors (enalapril, captopril), Propranolol, Dipyridamole, Digoxin)
- Dermatologic drugs (Dapsone, Isotretinoin)
- Antibacterial drugs (Macrolides including minocycline, Trimethoprim-sulfamethoxazole, Chloramphenicol, Sulfonamides, Vancomycin, Cephalosporin)
- Antimalarial drugs
- Antifungal agents (Amphotericin B, Flucytosine)
- Anticonvulsants (Carbamazepine, Phenytoin, Ethosuximide, Valproate, lamotrigine)
- Diuretics (Thiazides, Acetazolamide, Frusemide, Spironolactone)
- Chlorpropamide
- Bupropion
- Immunosuppressive drugs

#### Section 1 - Inclusion Criteria

Sec	Section 1 - Inclusion Criteria Study code				
	Major criteria (all must be met) History of inflammatory bowel disease History of thiopurine exposure in the Normal total white cell count and/or r Fall in total white cell count to $\leq 2.5 \times 1$ $\leq 1.0 \times 10^{9}$ /L Medical opinion implicating thiopurin (even if temporary)	previous 7 days neutrophil coun 0º/L, or reductic	t at baseline on in neutropl		
<b>1.2</b>	.2 Other risk factor(s) or potential causes for leucopaenia (see page 2)*         No       - Category A         Yes       - Category B         If yes:       Drugs, please specify (* See page 2)         Symptoms suggestive of recent viral infection         Myeloproliferative diseases         Rheumatoid arthritis, SLE         B12 or folate deficiency         Hypersplenism				
1.3	Other, please specify Minor criteria (sum number of c	riteria):		)	
	Fall in total white cell count or neutro thiopurines White cell count and neutrophil count or drug withdrawal Recurrence (defined as total white cell on re-challenge with either Azathiopr	t returns to nor count ≤3.5x10º	mal range aft /L or neutropl	er dose reduction	
1.4	Number of minor criteria		-		
	<b>Participant's eligibility Investiga</b> te e participant eligible to take part in the p, please give reason(s) for screen failur	e clinical trial?	Yes	No No	
1.					
2.					
3.					
	stigator's signature		Date	dd / mm / yyyy	
Inve	stigator's name (print)				
Inte	rnational IBD Genetics Consortium			Page 3 of 11	

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	Thiopurine Induced Leucopaenia				
Sect	Section 2 - Patient Details Study code				
2.1	Patient details				
Date	of Birth dd / mm / yyyy	Sex: M F			
Weig	ght at time of leucopaenia (or nearest es	timate) kg			
Date	of weight dd / mm / yyyy	Height cm			
2.2	Ethnicity - Please tick as appropria	ate			
Whit	te	Black or Black British			
	British	Caribbean			
	Irish	African			
	Any other White background	Any other Black background			
Mixe	ed	Chinese or Other Ethnic Group			
	White and Black Caribbean	Chinese			
	White and Black African	Any other ethnic group ( <i>please specify</i> )			
	White and Asian				
	Any other Mixed background	Not stated			
Asia	n or Asian background				
	Indian				
	Pakistani				

- Bangladeshi
- Any other Asian background

#### 2.3 Participant informed consent

Date participant signed written consent form

Date of blood sample taken

	dd	/ mm /	уууу
[ ]	dd	/ mm /	уууу

Study code

#### 3.1 Hospital Details

3.1.1 Consultant Gastroenterologist	3.1.2 Consultant Haematologist
Hospital	Hospital
Hospital address	Hospital address
Consultant telephone	Consultant telephone
	Consultant amail
Consultant email	Consultant email
3.2 Other significant medical history	Yes No
If yes, please give details here	

#### Section 4 - Diagnosis & Classification of IBD S

Study code

#### 4.1 Diagnosis and classification of IBD Crohn's disease Date of diagnosis dd / mm / yyyy **Ulcerative Colitis** Date of diagnosis dd / mm / yyyy **IBD** unclassified Date of diagnosis dd / mm / yyyy 4.2 Smoking history 4.2.1 Start date dd / mm / yyyy 4.2.2 End date dd / mm / yyyy 4.2.3 Maximum number of cigarettes per day 4.3 Ulcerative colitis 4.3.1 The extent of ulcerative colitis can be classified as: E1 Ulcerative proctitis - inflammation is limited to the rectum (proximal extent of inflammation is distal to the rectosigmoid junction) E2 Left sided UC (distal UC) - inflammation limited to a proportion of the colorectum up to the splenic flexure E3 Extensive UC (pancolitis) - inflammation extends beyond the splenic flexure Ex Unknown 4.3.2 Disease severity in 2 years prior to development of leucopaenia DS0 Clinical remission. Asymptomatic; no escalation of treatment DS1 Mild relapses – managed with oral or rectal aminosalicylates and/or rectal steroids: no oral steroids required DS2 Moderate relapses requiring oral steroids and/or addition of immunomodulator DS3 Severe or refractory disease requiring inpatient admission or colectomy 4.4 Crohn's disease 4.4.1 Location L1 lleal L3 Ileocolonic L4 Isolated upper disease L2 Colonic **4.4.2 Behaviour** - the behaviour can be defined by looking at reports from Barium enema, colonoscopy, MRI, CT B1 Non stricturing, non-penetrating **B3** Internal penetrating p Perianal disease modifier **B2** Stricturing International IBD Genetics Consortium Page 6 of 11 Thiopurine Induced Leucopaenia in IBD CRF v2.0 (20 September2011)

Thiopurine Induced Leucopaenia						
Section 5 - Leucopaenia History Study code						
5.1 Which thiop	5.1 Which thiopurine was suspected of causing leucopaenia?					
Azathiopri	ine		Mercaptopuri	ne		
5.2 Date thiopur	ine first co	ommenced		dd / mm	/ уууу	
5.3 Maximum do to episode o		-	weeks prior			
5.3.1 Date when this	s maximum	dose of thiopu	irine started	dd / mm /	/ уууу	
Yes If yes, what wa	No No Ievel (	$\Box$	known BC)?			
<ul> <li>5.5 Presentation <ul> <li>Did the patient present because of:</li> <li>Routine monitoring</li> <li>Sepsis</li> <li>Opportunistic blood test</li> <li>Other</li> </ul> </li> <li>5.6 Leucopaenia</li> </ul>						
	Date	Total white cell count	Neutrophil count	Haemoglobin	Platelet count	
Normal range for lab	dd/mm/yyyy					
Last blood test prior to commencing thiopurine						
First blood test       demonstrating       demonstrating         leucopaenia       dd/mm/yyyy         (below normal       dd/mm/yyyy         range for your lab)       dd/mm/yyyy						
Blood test demonstrating lowest total white cell count	dd/mm/yyyy					

dd/mm/yyyy

Blood test

count

demonstrating lowest neutrophil

#### Section 5 - Leucopaenia History

Study code

#### 5.7 Recovered cell counts

	Date	Cell count
Best recovered total white cell count within 8 weeks of dose reduction/withdrwal	dd / mm / yyyy	
Best recovered neutrophil count within 8 weeks of dose reduction/withdrawal	dd / mm / yyyy	

Time to best recovered total white cell count/neutrophil count (days)

## 5.8 Did the patient require hospital admission at any stage due to leucopaenia

Thiopurine Induced LeucopaeniaSection 6 - Supplementary InformationStudy code

#### 6.1 What is the individual's thiopurine methytransferase (TPMT) genotype/ activity ?

	Genotype					
	Activity:	Absent	Leve	l (U/ml)		
		Low (carrier)				
		Normal				
		High				
6.2	azathiop	ndividual experier rine/mercaptopuri	ine?		e effects at	tributable to
	Yes	U No	Unknov	vn		
lf ye	s:					
6.2.1	Abnormal	LFTs (please give pea	k ALT/AST an	d laboratory	reference ra	inge)
6.2.2	2 Pancreatiti	s (please state peak s	serum amylas	e/lipase and	laboratory r	eference)
6.2.3	B Other (plea	ase state):				
6.3	Family his	story				
Fam	ily history of	f thiopurine induced	leucopaenia	Yes	No	🗍 Unknown
If ye	s, give detai	ls				

Section 7 - Other Drug History

Study code

## 7.1 Did the patient receive steroids in the 3 months prior to recognition of leucopaenia?

Yes I	No 🗌 Unknown		
If yes, type of steroid		Dose 🤇	
Date commenced	dd / mm / yyyy	Date ceased	dd / mm / yyyy

7.2 Other drugs in 3 months prior to development of leucopaenia

# Thiopurine Induced LeucopaeniaSection 8 - Principal Investigator StatementStudy code

I have reviewed this CRF and confirm that, to the best of my knowledge, it accurately reflects the study information obtained for this participant. All entries were made either by myself or by a person under my supervision who has signed the Delegation and Signature Log.

Prinicpal Investigator's signature		
Date	dd / mm / yyyy	
Princip	al Investigator's name (print)	

## ONCE SIGNED, NO FURTHER CHANGES CAN BE MADE TO THIS CRF WITHOUT A SIGNED DATA QUERY FORM