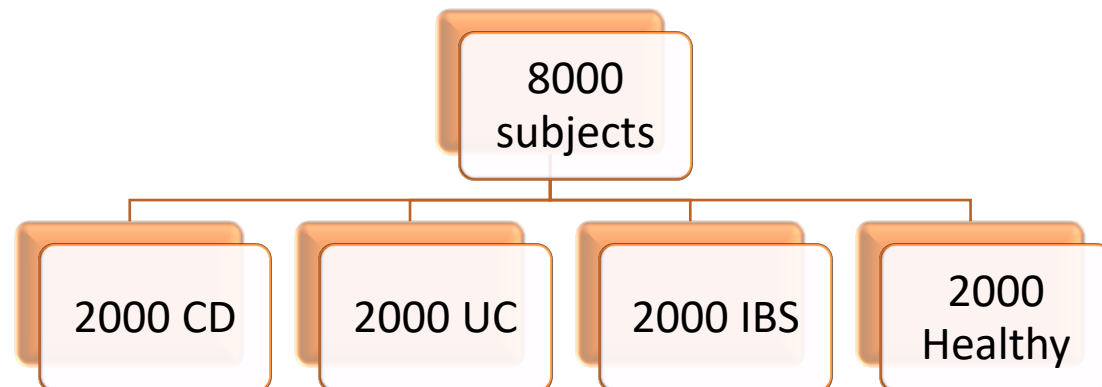


# IMAGINE | Mind And Gut Interactions Cohort



- Understand how genes, diet and mental health impact the gut microbiome in people with IBD & IBS
- Subjects assessed annually for 4 years and submit blood, urine and stool samples & complete online questionnaires
- Start Date: Oct 2017
- Sites: 15 active sites; 2 pending sites [Montreal + SickKids (CIDsCaNN subsites)]



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Inflammation, Microbiome & Alimentation



# IMAGINE | Main Cohort Study – Study Design



	ANALYSIS	RESEARCH CORE LEAD
<b>PATIENT QUESTIONNAIRES</b>	Demographic & Health Status	PHRI (All)
<b>BLOOD</b>	Inflammatory markers	Queen's (Dr. Vanner) & McMaster (Dr. Bercik)
	Genetics	University of Montreal (Dr. Rioux)
<b>STOOL</b>	Microbiome	McMaster (Dr. Surette)
<b>URINE</b>	Metabolomics	U of Alberta (Dr. Madsen)



# IMAGINE | MAGIC – Study Progress



Mind And Gut Interactions Cohort Study — IMAGINE Network

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Gastroenterology and hepatology  
Protocol

### IMAGINE Network's Mind And Gut Interactions Cohort (MAGIC) Study: a protocol for a prospective observational multicentre cohort study in inflammatory bowel disease and irritable bowel syndrome

 Paul Moayyedi<sup>1</sup>, Glenda MacQueen<sup>2</sup>, Charles N Bernstein<sup>3</sup>, Stephen Vanner<sup>4</sup>, Premysl Bercik<sup>1</sup>, Karen L Madsen<sup>5</sup>, Michael Surette<sup>6</sup>, John D Rioux<sup>7</sup>, Levinus A Dieleman<sup>8</sup>, Elena Verdú<sup>9</sup>, Russell J de Souza<sup>10</sup>, Anthony Otley<sup>11</sup>, Laura Targownik<sup>12</sup>, John Lavis<sup>6</sup>,  
 Jennifer Cunningham<sup>13</sup>,  Deborah A Marshall<sup>14</sup>, Sandra Zelinsky<sup>15</sup>, Aida Fernandes<sup>1</sup>

[Author affiliations +](#)

#### Abstract

**Introduction** Gut microbiome and diet may be important in irritable bowel syndrome (IBS), inflammatory bowel disease (IBD) and comorbid psychiatric conditions, but the mechanisms are unclear. We will create a large cohort of patients with IBS, IBD and healthy controls, and follow them over time, collecting dietary and mental health information and biological samples, to assess their gastrointestinal (GI) and psychological symptoms in association with their diet, gut microbiome and metabolome.



PDF +  
Supplementary  
Material



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Inflammation, Microbiome & Alimentation



# IMAGINE | MAGIC – Study Progress



Mind And Gut Interactions Cohort Study — IMAGINE Network

Study Design

Ethics & Legal

Recruitment

Analysis

Dissemination



**15+2**

ACTIVE & PENDING  
RECRUITMENT SITES



**4,426**

SUBJECTS  
RECRUITED



**18,783**

BIOSPECIMENS  
COLLECTED &  
BANKED



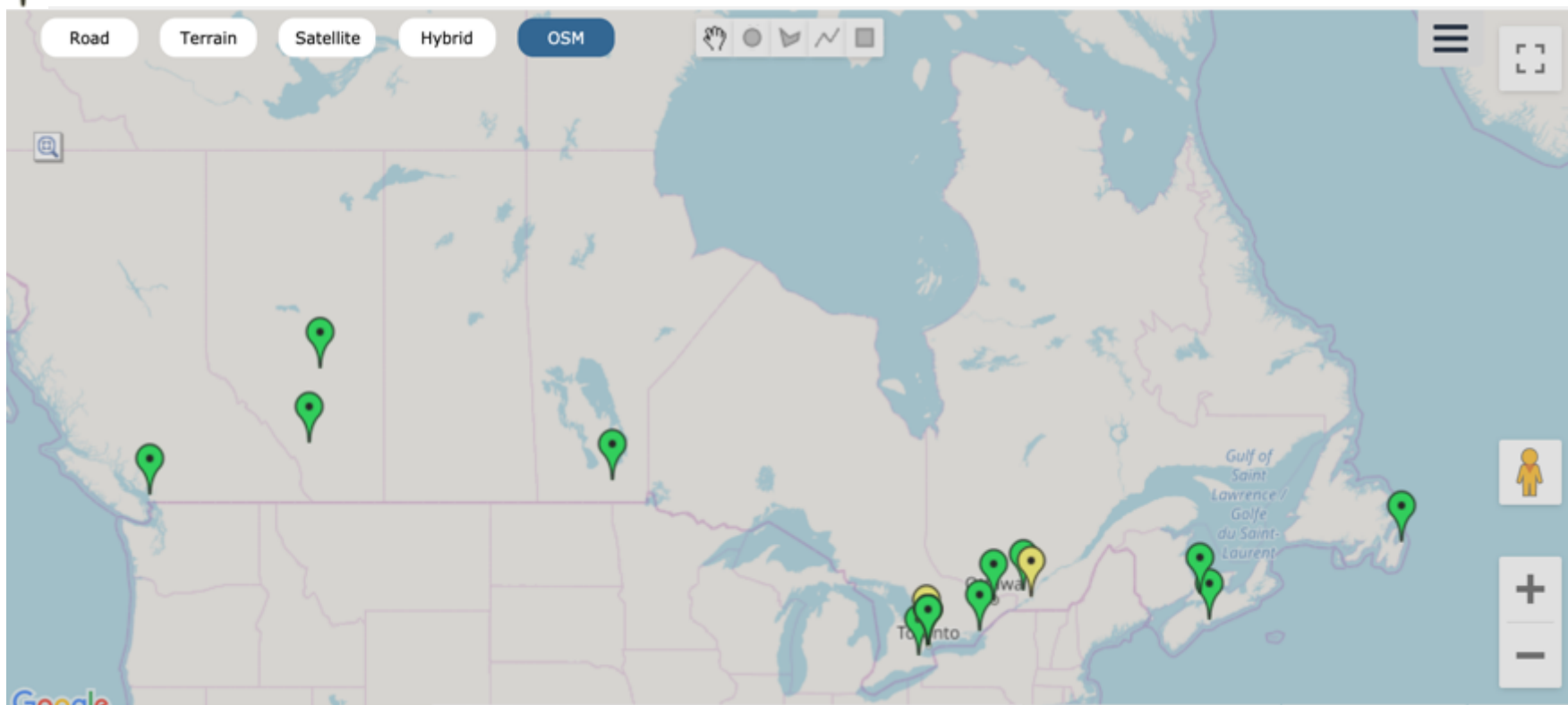
Inflammation, Microbiome & Alimentation



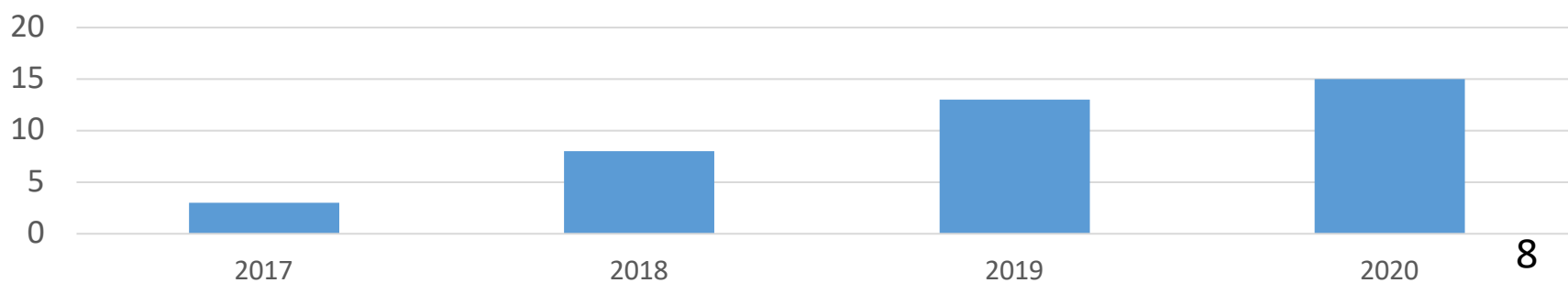


# MAGIC | Recruitment Sites

-  Currently Recruiting
-  Recruitment Pending (Sick Kids/CIDSCaNN sites, Montreal)



Number of IMAGINE recruitment sites



Inflammation, Microbiome & Alimentation



# MAGIC | Recruitment Totals (as of October 2020)

Site	Greenlight Date	Start Date	Average Monthly Recruitment <sup>1</sup>	Total
21 McMaster University Medical Centre - Hamilton	2017-10-11	2017-10-11	22.8	844
21A St. Joseph's Healthcare, West 5th - Hamilton	2019-07-12	2020-03-10	0.4	3
21B St. Joseph's Healthcare, Downtown - Hamilton	2020-10-05			0
22 IBD Clinical & Research Centre - Winnipeg	2017-11-06	2017-11-15	20.5	733
23 Hotel Dieu Hospital - Kingston	2017-10-25	2017-12-06	14.1	497
24 University of Calgary - Calgary	2018-03-19	2018-03-20	25.1	795
25 University of Alberta - Edmonton	2018-03-07	2018-03-23	23.1	730
26 IWK Health Centre - Halifax	2018-03-07	2018-06-25	3.7	105
27 NSHA, Centre for Clinical Research - Halifax	2018-06-21	2018-07-19	12.1	335
28 UHN Toronto Western Hospital - Toronto	2018-06-04	2018-06-19	2.1	59
29 Memorial University - St. John's	2019-06-06	2019-07-19	2.8	43
30 The Ottawa Hospital - Ottawa	2019-04-29	2019-05-02	6.5	118
31 GI Research Institute - Vancouver	2019-04-01	2019-05-10	4.1	73
32 Mount Sinai Hospital - Toronto	2019-09-25	2019-10-18	2.1	26
33 MUHC IBD Research Centre - Montreal	2019-08-23	2019-08-29	4.6	65
34 Centre Hospitalier de l'Université de Montréal - Montreal	2020-03-10			0
36 University of Alberta - Edmonton PEDS	2020-02-13			0
<b>Total</b>				<b>4426</b>



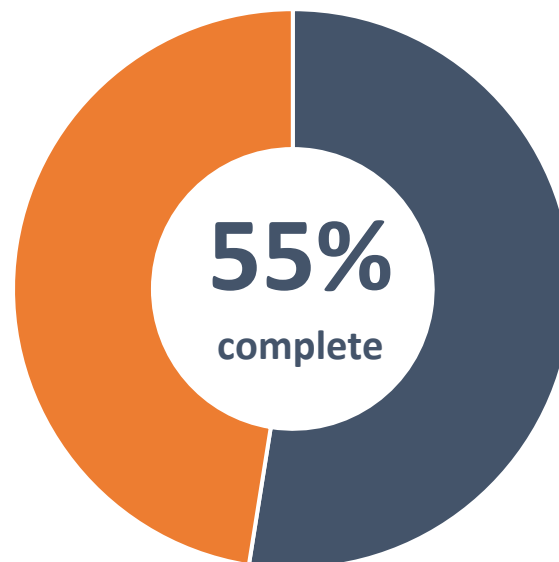
Inflammation, Microbiome & Alimentation Gastro-Intestinal & Neuropsychiatric Effects



# MAGIC | Recruitment Totals (as of October 26, 2020)



Inflammation, Microbiome & Alimentation  Gastro-Intestinal & Neuropsychiatric Effects



- Subjects recruited
- Subjects outstanding

	Recruited	Target	% Complete
CD	1751	2000	88%
UC	1118	2000	56%
IBS	754	2000	38%
Healthy	752	2000	38%
Total	4426	8000	55%

# IMAGINE | News Coverage

Inflammation, Microbiome & Alimentation Gastro-Intestinal & Neuropsychiatric Effects



Participants needed for national GI study at University of Manitoba

Dr. Charles Bernstein is featured on Global News

'Poop is in you to give': Winnipeg GI group recruiting participants for national study



Patient Research Partner, Kim Daley, and Dr. Charles Bernstein talk to CityNews



University of Alberta looking for healthy people to donate stool samples for research

Dr. Leo Dieleman and patient speak to Global News

Halifax doctor seeks poop samples in the name of research



Dr. Tony Otley will spend four years examining stool to test treatment options

Carolyn Ray - CBC News - Posted: Nov 23, 2019 6:00 AM AT | Last Updated: November 23, 2019



Dr. Tony Otley on CBC News



Dr. Charles Bernstein featured on Global News



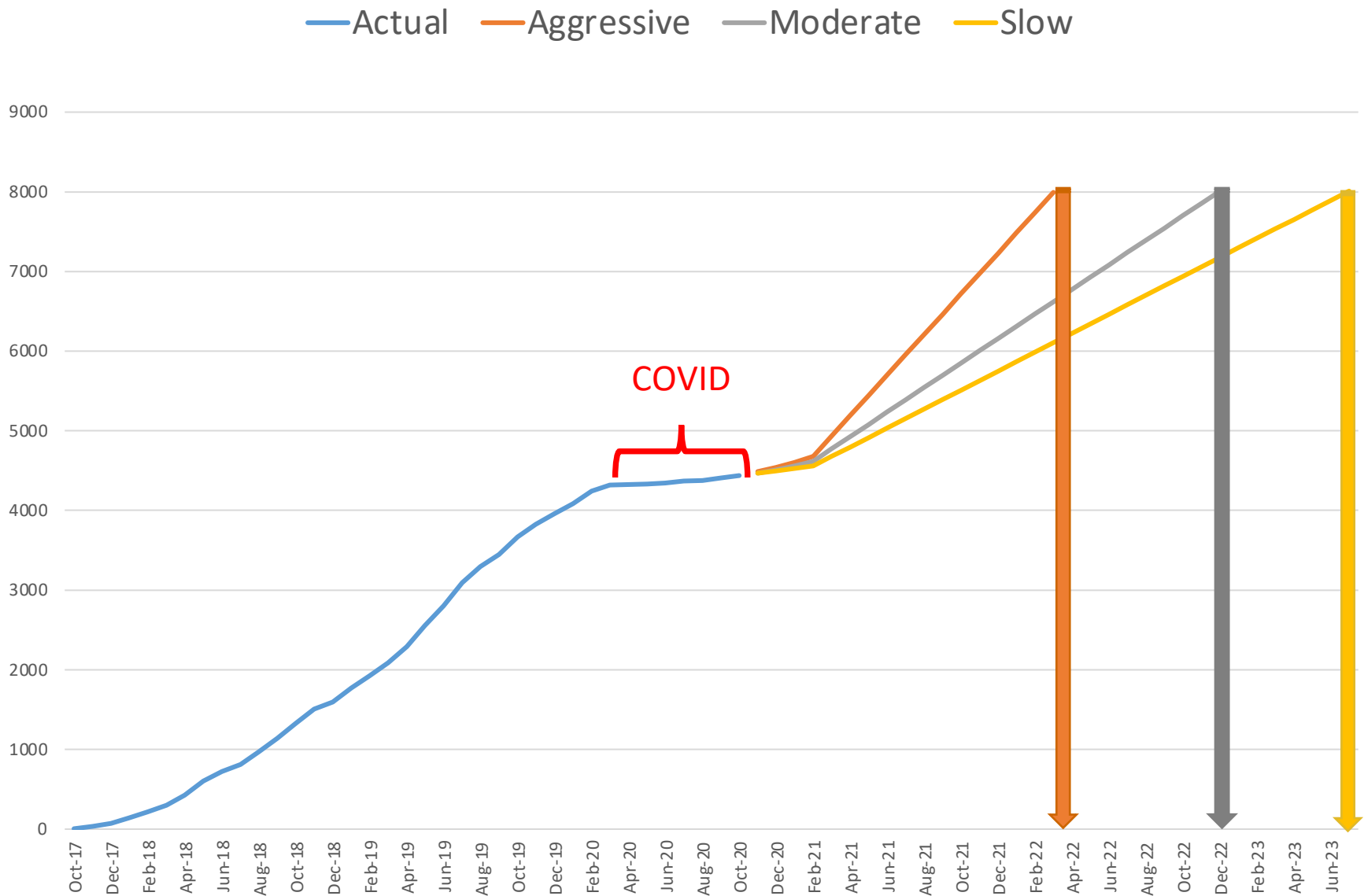
Dr. Tony Otley on Global News Halifax



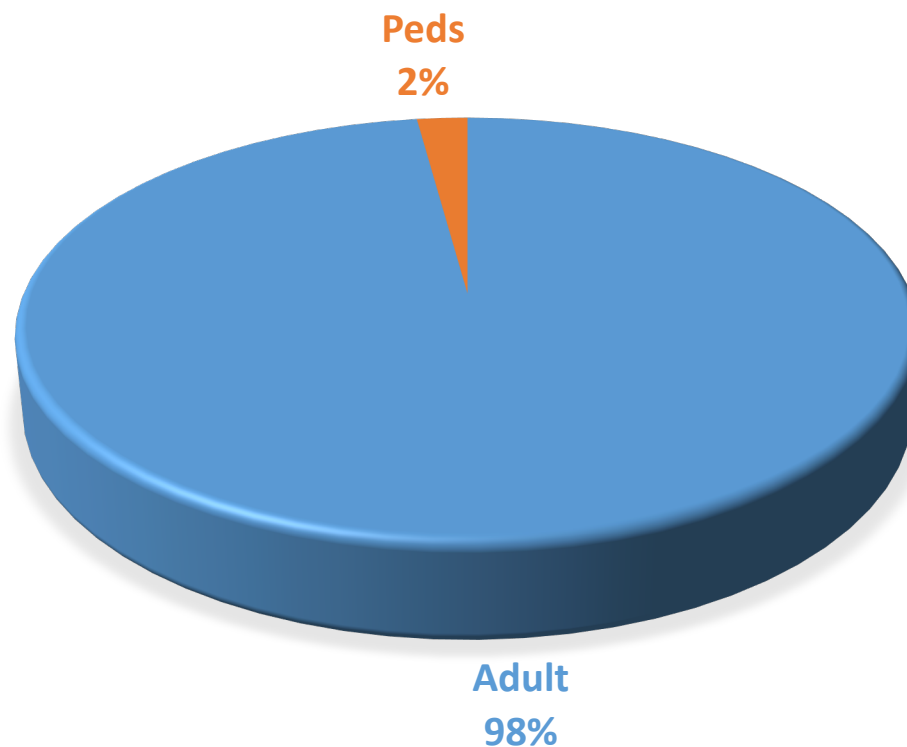
Dr. Jean-Eric Ghia speaks to Radio-Canada (French)



# MAGIC | Recruitment Actual + Projections



# MAGIC | Cohort – Age Distribution



Disease Type	Age (Mean)	Age (Range)
CD	42.9	6 - 87
UC	43.9	5 - 84
IBD-unclassified	39.1	9 - 69
IBS	46.8	16-83
Healthy	52.9	8 - 85

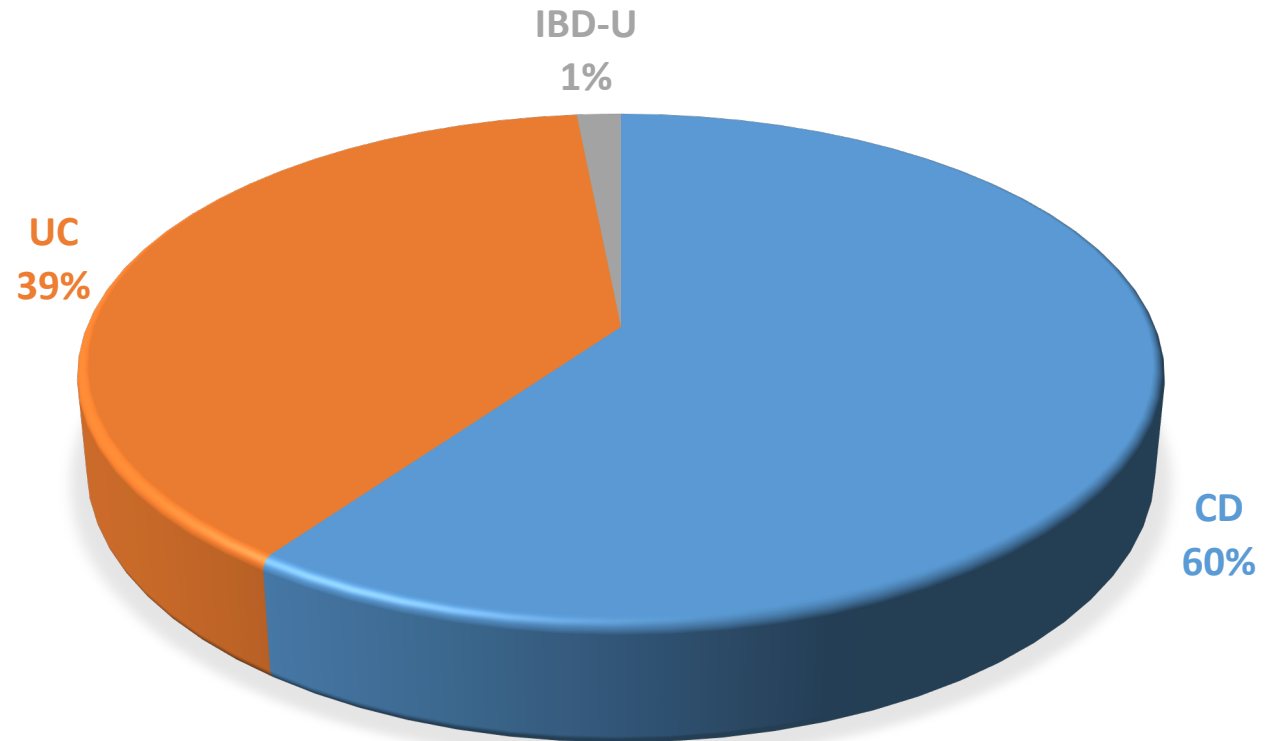
# MAGIC | Cohort - IBD Classification



Inflammation, Microbiome & Alimentation

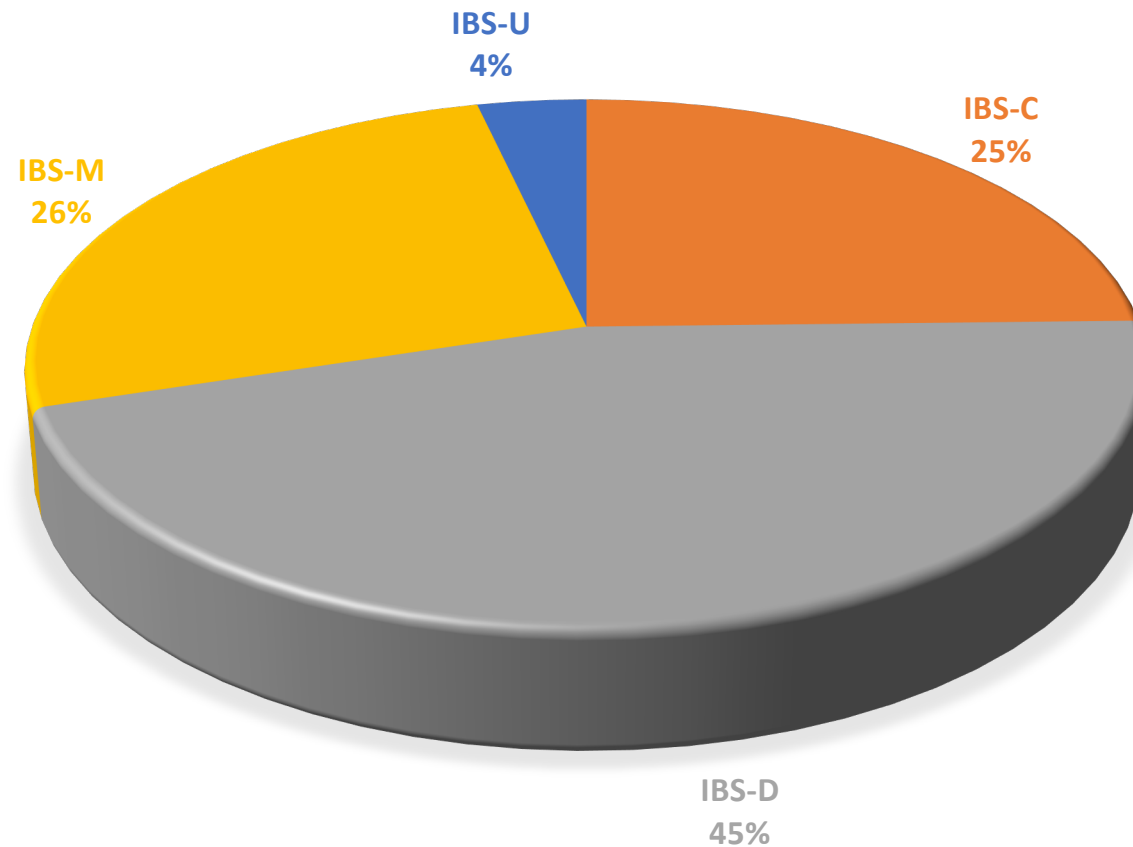


IBD CLASSIFICATION



# MAGIC | Cohort - IBS Classification

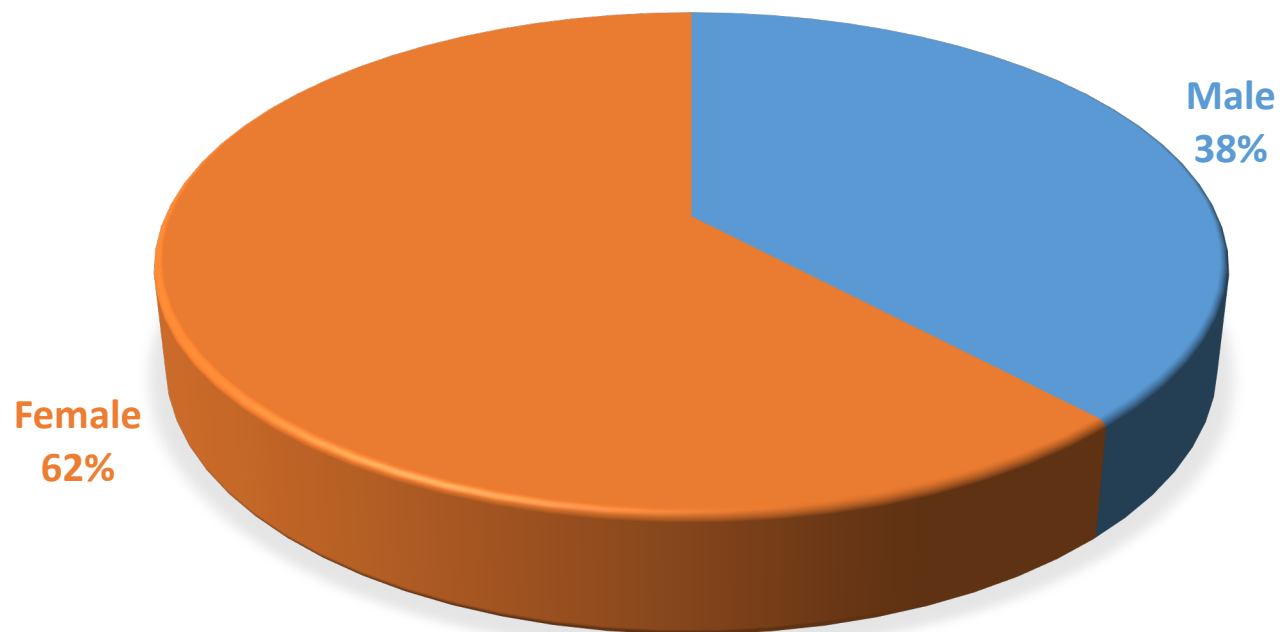
## IBS CLASSIFICATION





# MAGIC | Cohort - Gender Classification

OVERALL COHORT - GENDER BREAKDOWN



Disease Type	Male	Female	%Male	%Female
CD	700	1052	40%	60%
UC	533	586	48%	52%
IBD-unclassified	16	29	36%	64%
IBS	138	616	18%	82%
Healthy	296	456	39%	61%



Inflammation, Microbiome & Alimentation

