Table, Supplemental Digital Content 3. Pattern of use of first biologic agent and numbers of subsequent biologic agents used in Crohn's disease and ulcerative colitis (Chart Review Cohort; N = 1029)

	Crohn's disease	Ulcerative	Overall	Р
	(N = 809)	colitis (N = 220)	(N = 1029)	value*
Time from diagnosis to initiation of first	325 (121, 740)	423 (208, 938)	356 (139, 779)	0.004
biologic agent (days), median (Q1, Q3)				
Discontinued first biologic agent, n (%)	165 (20)	69 (31)	234 (23)	0.003
Reasons for discontinuation of first biologic				0.008
agent, n (%)				
Intolerance [†]	42 (25)	11 (16)	53 (23)	
Primary lack of effectiveness	24 (15)	20 (29)	44 (19)	
Secondary loss of response	66 (40)	25 (37)	91 (39)	
Financial barriers	1 (1)	0 (0)	1 (<1)	
Pain with injections	1 (1)	1 (1)	2 (1)	
Choice	20 (12)	2 (3)	22 (9)	
Unknown	5 (3)	2 (3)	7 (3)	
Other	6 (4)	8 (12)	14 (6)	
Number of biologic agents used, n (%)				‡
≥2	132 (16)	43 (20)	175 (17)	
≥3	18 (2)	6 (3)	24 (2)	
≥4	5 (0.6)	1 (<1)	6 (1)	
Positioning of biologic agent use, n (%)				‡
Adalimumab [§]				
First [∥]	104 (13)	19 (9)	123 (12)	
Second [¶]	104 (79)	31 (72)	135 (77)	
Third#	1 (6)	2 (33)	3 (13)	

Fourth**	1 (20)	-	1 (17)	
Certolizumab pegol [§]				‡
First∥	2 (<1)	0 (0)	2 (<1)	
Second [¶]	0 (0)	0 (0)	0 (0)	
Third#	89 (44)	0 (0)	8 (33)	
Fourth**	0 (0)	-	0 (0)	
Golimumab§				‡
First∥	0 (0)	1 (1)	1 (<1)	
Second [¶]	0 (0)	1 (2)	1 (1)	
Third#	0 (0)	1 (17)	1 (4)	
Fourth**	0 (0)	-	0 (0)	
Infliximab [§]				‡
First∥	703 (87)	200 (91)	903 (88)	
Second [¶]	23 (17)	7 (16)	30 (17)	
Third#	2 (11)	1 (17)	3 (13)	
Fourth**	0 (0)	-	0 (0)	
Ustekinumab				‡
First∥	0 (0)	0 (0)	0 (0)	
Second [¶]	1 (1)	0 (0)	1 (1)	
Third#	0 (0)	0 (0)	0 (0)	
Fourth**	0 (0)	0 (0)	0 (0)	
Vedolizumab				‡
First [∥]	0 (0)	0 (0)	0 (0)	
Second [¶]	4 (3)	4 (9)	8 (5)	
Third#	7 (39)	2 (33)	9 (38)	
Fourth**	4 (80)	1 (100)	5 (83)	

*The *P* values were from the log-rank test for the time-to-event variable and exact Chi-square test for categorical variables.

†Intolerance was defined as an allergic reaction or other drug side effect.

[‡]No tests were done either because of the nested samples (eg, patients who used ≥3 biologics were also included in those who used ≥2 biologics) or because each row represented different samples (reasons explained in footnotes || through ** below).

§Anti-TNF agent.

The denominator is N = 809 for CD patients and N = 220 for UC patients who all used ≥1 biologics.

¶The denominator is N = 132 for CD patients and N = 43 for UC patients who all used ≥2 biologics.

[#]The denominator is N = 18 for CD patients and N = 6 for UC patients who all used ≥3 biologics.

**The denominator is N = 5 for CD patients and N = 1 for UC patients who all used ≥4 biologics.

CD = Crohn's disease; UC = ulcerative colitis.