

The TREAT Registry is a prospective, observational, multicenter, long-term registry of North American patients with CD from 1999 to 2006.

Results:

- Patients with IFX had mod-severe to fulminant disease more frequently, p<0.001

Increased mortality risk factors:

- Prednisone HR=2.14; Narcotic drugs HR=1.7 ; Age HR=1.08

Increased risk of serious infections:

- Mod-sev disease HR=2.24 Narcotic drugs HR=1.98
Prednisone HR=1.57; IFX HR=1.43

Conclusions:

Prednisone and narcotic drugs related with both serious infections and mortality. Older age related to increased mortality. Increased risk of serious in patients on IFX or with mod-severe CD.

Table 3. Predictors of Mortality

Predictor variable	All patients (N = 6290)	Deaths (N = 53) ^a	Unadjusted results		Adjusted results	
			OR (95% CI) ^b	P value ^c	OR (95% CI) ^b	P value ^c
Age						
Mean ± SD	42 ± 14.7	59 ± 16.1	1.072 (1.053-1.092) ^d	<.001	1.072 (1.050-1.094)	<.001
Sex						
Male/unknown	2671	.94%	—	—	—	—
Female	3619	.77%	.825 (.480-1.418)	.49	.733 (.415-1.293)	.28
Race						
Non-Caucasian/unknown	689	.73%	—	—	—	—
Caucasian	5601	.86%	1.182 (.469-2.980)	.72	0.734 (.284-1.900)	.52
Diseased segment(s)						
Ileum and colon	2475	1.01%	—	—	—	—
Ileum only	1806	.78%	.766 (.397-1.477)	.43	.891 (.449-1.768)	.74
Colon only	1767	.74%	.726 (.371-1.424)	.35	.866 (.419-1.789)	.70
Unknown	242	.41%	.407 (.055-3.014)	.38	.698 (.082-5.927)	.74
Years between diagnosis and enrollment						
Mean ± SD	11 ± 10.2	19 ± 15.7	1.062 (1.040-1.084)	<.001	1.030 (1.008-1.052)	.006
Severity at baseline						
Remission	1535	.65%	—	—	—	—
Mild	3081	.71%	1.097 (.518-2.322)	.81	1.266 (.562-2.852)	.57
Moderate/severe	1398	1.29%	1.989 (.915-4.324)	.083	2.256 (.900-5.653)	.083
Unknown	276	1.09%	1.676 (.458-6.128)	.44	3.223 (.776-13.387)	.11
Infliximab						
No	3111	.80%	—	—	—	—
Yes	3179	.88%	1.097 (.638-1.885)	.74	1.015 (.531-1.942)	.96
Prednisone						
No	3894	.59%	—	—	—	—
Yes	2396	1.25%	2.134 (1.237-3.683)	.007	2.096 (1.147-3.832)	.016
Immunomodulators						
No	2526	1.03%	—	—	—	—
Yes	3764	.72%	.695 (.404-1.193)	.19	.731 (.398-1.340)	.31
Narcotic analgesics						
No	5085	.73%	—	—	—	—
Yes	1205	1.33%	1.836 (1.018-3.312)	.044	1.787 (.946-3.379)	.074

^aData representing patient status between registration and June 30, 2004, were used in the logistic regression analysis because this is the timeframe for which there is complete information on medication usage. Two patients died after June 30, 2004.
^bP value from Wald χ^2 test.
^cOR reported as OR per year increase in age.

Table 5. Predictors of Serious Infection

Predictor variable	All patients (N = 6253) ^a	Serious infections (N = 106) ^b	Unadjusted results		Adjusted results	
			OR (95% CI)	P value ^c	OR (95% CI)	P value ^c
Age at enrollment						
Mean ± SD	43 ± 14.7	45 ± 14.6	1.013 (1.001-1.026)	.038	1.012 (.997-1.027)	.12
Sex						
Male/unknown	2648	1.40%	—	—	—	—
Female	3605	1.91%	1.377 (.921-2.059)	.12	1.216 (.807-1.832)	.35
Race						
Non-Caucasian/unknown	674	2.37%	—	—	—	—
Caucasian	5579	1.61%	.674 (.394-1.155)	.15	.543 (.313-.943)	.030
Diseased segment(s)						
Ileum and colon	2463	2.27%	—	—	—	—
Ileum only	1799	1.39%	.608 (.377-.974)	.039	.699 (.431-1.135)	.15
Colon only	1761	1.36%	.594 (.367-.962)	.034	.705 (.429-1.160)	.17
Unknown	230	.43%	.188 (.026-1.362)	.098	.385 (.052-2.853)	.35
Years between diagnosis and enrollment						
Mean ± SD	11 ± 10.2	14 ± 12.4	1.030 (1.013-1.047)	<.001	1.024 (1.006-1.044)	.011
Severity at baseline						
Remission	1529	.98%	—	—	—	—
Mild	3074	1.53%	1.567 (.874-2.812)	.13	1.324 (.725-2.419)	.36
Moderate/severe	1386	3.03%	3.155 (1.742-5.714)	<.001	2.114 (1.103-4.052)	.024
Unknown	264	.76%	.771 (.176-3.380)	.73	.963 (.214-4.329)	.96
Infliximab^d						
No	3320	1.39%	—	—	—	—
Yes	2933	2.05%	1.486 (1.009-2.190)	.045	.991 (.641-1.535)	.97
Prednisone^e						
No	4111	1.09%	—	—	—	—
Yes	2142	2.85%	2.649 (1.706-3.907)	<.001	2.212 (1.464-3.342)	<.001
Immunomodulators^f						
No	2775	1.75%	—	—	—	—
Yes	3478	1.67%	.963 (.665-1.417)	.85	.782 (.519-1.179)	.24
Narcotic analgesics^g						
No	5251	1.26%	—	—	—	—
Yes	1002	3.96%	3.267 (2.102-4.867)	<.001	2.380 (1.560-3.631)	<.001

