Table 1. Cohort characteristics, numbers in count (%) unless specified

	$ \begin{array}{c} \text{voxelotor} \\ \text{(N=1049)} \end{array} $	hydroxyurea (N=1681)	crizanlizumab- tmca (N=778)	L-glutamine (N=460)	Total (N=3968)
Age					
0-11	0 (0%)	616 (36.6%)	1~(0.1%)	$63\ (13.7\%)$	$680 \ (17.1\%)$
12-19	313 (29.8%)	333 (19.8%)	118 (15.2%)	84 (18.3%)	848 (21.4%)
20-29	253 (24.1%)	278 (16.5%)	292 (37.5%)	133~(28.9%)	956 (24.1%)
30-49	387 (36.9%)	$345\ (20.5\%)$	314 (40.4%)	144 (31.3%)	1190 (30.0%)
50+	96 (9.2%)	109 (6.5%)	53 (6.8%)	36 (7.8%)	294 (7.4%)
Gender					
Female	646 (61.6%)	952 (56.6%)	463 (59.5%)	258 (56.1%)	2319 (58.4%)
Male	403 (38.4%)	729 (43.4%)	315 (40.5%)	202 (43.9%)	1649 (41.6%)
Region	,	, ,	,	, , ,	, ,
Northeast	215 (20.5%)	289 (17.2%)	172 (22.1%)	110 (23.9%)	786 (19.8%)
Midwest	122 (11.6%)	359 (21.4%)	133 (17.1%)	96 (20.9%)	710 (17.9%)
South	629 (60.0%)	931 (55.4%)	420 (54.0%)	221 (48.0%)	2201 (55.5%)
West	83 (7.9%)	102 (6.1%)	53 (6.8%)	33 (7.2%)	271 (6.8%)
CCI	/		/		
0	341 (32.5%)	975 (58.0%)	$233\ (29.9\%)$	186 (40.4%)	1735 (43.7%)
1-3	562 (53.6%)	583 (34.7%)	436 (56.0%)	224 (48.7%)	1805 (45.5%)
4+	146 (13.9%)	123 (7.3%)	109 (14.0%)	50 (10.9%)	428 (10.8%)
Transfusion	()	( )	()	(	
Yes	359 (34.2%)	303 (18.0%)	254 (32.6%)	99 (21.5%)	1015 (25.6%)
No	690 (65.8%)	1378 (82.0%)	524 (67.4%)	361 (78.5%)	2953 (74.4%)
VOC			( , , , ,	( , , , ,	(
(Inpatient)					
0	340 (32.4%)	891 (53.0%)	$118 \ (15.2\%)$	149 (32.4%)	1498 (37.8%)
1	$189 \ (18.0\%)$	365~(21.7%)	$116 \ (14.9\%)$	85 (18.5%)	$755 \ (19.0\%)$
2	$126\ (12.0\%)$	158 (9.4%)	$82\ (10.5\%)$	59~(12.8%)	$425 \ (10.7\%)$
3+	394 (37.6%)	267 (15.9%)	462 (59.4%)	167 (36.3%)	1290 (32.5%)
VOC					
(Emergency					
Room)	479 (45 007)	1066 (63.4%)	222 (20.007)	202 (44 107)	1072 (40 707)
0	472 (45.0%)	\ /	232 (29.8%)	203 (44.1%)	1973 (49.7%)
$\frac{1}{2}$	177 (16.9%) 110 (10.5%)	265 (15.8%)	122 (15.7%)	78 (17.0%)	642 (16.2%)
2 3+	290 (27.6%)	128 (7.6%)	69 (8.9%)	51 (11.1%) 128 (27.8%)	358 (9.0%) 995 (25.1%)
	290 (27.0%)	222 (13.2%)	355 (45.6%)	120 (21.8%)	990 (20.1%)
Number of Prescriptions					
Mean (SD)	7.07 (5.49)	6.05 (4.76)	7.54 (4.77)	5.40 (4.66)	6.54 (5.01)
PDC	1.01 (0.49)	0.00 (4.10)	1.04 (4.11)	0.40 (4.00)	0.04 (0.01)
Mean (SD)	0.446 (0.299)	0.437 (0.290)	0.461 (0.292)	0.334 (0.269)	0.432 (0.293)
	Comorbidity Ind	, ,	0.401 (0.292)	0.554 (0.209)	0.434 (0.433)

CCI - Charlson Comorbidity Index VOC - Vaso-Occlusive Crisis PDC - Proportion of Days Covered

Table 2. Linear regression analysis results for all-medication bundle effects

Covariate	Estimate (95% CI)	p-Value
Intercept	$0.491\ (0.459,\ 0.523)$	< 0.001
Age		
0-11	(Reference)	
12-19	-0.034 (-0.064, -0.004)	0.026
20-29	-0.104 (-0.134, -0.073)	< 0.001
30-49	-0.099 (-0.128, -0.070)	< 0.001
50+	-0.054 (-0.100, -0.009)	0.018
Gender		
Female	(Reference)	
Male	0.008 (-0.010, 0.027)	0.371
Region		
Northeast	(Reference)	
Midwest	0.008 (-0.022, 0.037)	0.616
South	0.012 (-0.012, 0.036)	0.347
West	-0.067 (-0.107, -0.027)	< 0.001
CCI		
0	(Reference)	
1-3	0.010 (-0.010, 0.031)	0.333
4+	0.024 (-0.012, 0.060)	0.193
Transfusion		
No	(Reference)	
Yes	0.045 (0.023, 0.066)	< 0.001
VOC (Inpatient)		
0	(Reference)	
1	-0.004 (-0.030, 0.022)	0.775
2	-0.013 (-0.045, 0.020)	0.447
3+	-0.001 (-0.028, 0.027)	0.968
VOC (Emergency Room)		
0	(Reference)	
1	-0.007 (-0.034, 0.020)	0.620
2	0.001 (-0.034, 0.035)	0.970
3+	-0.058 (-0.086, -0.030)	< 0.001

CCI - Charlson Comorbidity Index VOC - Vaso-Occlusive Crisis