

**Table S1.** Demographic characteristics of the study population and patients with adherence to the ICT regimen.

Variable	Total N (%)	Adherence Status N (%)		P-value	Treatment Efficacy N (%)		P-value
		Good (N = 34)	Poor (n = 24)		Good Control (n = 16)	Poor Control (n = 42)	
Sex (Male/Female)	21 (36.2)/37 (63.8)	13 (61.9) /21 (56.8)	8 (38.1)/16 (43.2)	0.46	7 (33.3)/9 (24.3)	14 (66.7)/28 (75.7)	0.32
Age Mean (Mean $\pm$ SD) Years	8.60 $\pm$ 4.45	8.29 $\pm$ 4.26	9.04 $\pm$ 4.76	0.62	8.63 $\pm$ 4.74	8.60 $\pm$ 4.39	0.94
2-6 Years	22 (37.9)	12 (54.5)	10(45.5)	0.09	5 (22.7)	17 (77.3)	0.09
6-10 Years	16 (27.6)	11 (68.8)	5 (31.3)		5 (31.3)	11 (68.8)	
10-14 Years	14 (24.1)	9 (64.3)	5 (35.7)		4 (28.6)	10 (71.4)	
14-18 Years	6 (10.3)	2 (33.3)	4 (66.7)		2 (33.3)	4 (66.7)	
Mother's Age (Mean $\pm$ SD)	35.14 $\pm$ 9.78	32.39 $\pm$ 9.57	38.76 $\pm$ 8.97	0.008	33.75 $\pm$ 9.78	35.67 $\pm$ 9.83	0.60
Under 18 years	2 (3.4)	1 (50)	1 (50)	0.06	1 (50)	1 (50)	0.37
18 to 30 years	16 (27.6)	15 (93.8)	1 (6.3)		4 (25)	12 (75)	
30 to 40 years	26 (44.8)	12 (46.2)	14 (53.8)		8 (30.8)	18 (69.2)	
More than 49 years	14 (24.1)	6 (42.9)	8 (57.1)		3 (21.4)	11 (78.6)	
ICT Regimen Duration Years	6.48 $\pm$ 4.33	6.17 $\pm$ 4.15	6.91 $\pm$ 4.63	0.66	6.5 $\pm$ 4.61	6.47 $\pm$ 4.28	0.98
Positive Thalassaemic Sibling	18 (31.0)	9 (50.0)	9 (50.0)	0.27	4 (22.2)	14 (77.8)	0.39
Mother's Educational Status				0.19			0.73
Illiterate	29 (50.0)	14 (48.3)	15 (51.7)	0.51	9 (31)	20 (69)	0.81
Primary school	16 (27.6)	10 (62.5)	6 (37.5)		3 (18.8)	13 (81.3)	
High school	13 (22.4)	10 (76.9)	3 (23.1)		4 (30.8)	9 (69.2)	
Adolescents' Educational Status*							
Illiterate	1 (6.3)	0 (0.0)	1 (100.0)		1 (100.0)	0 (0.0)	
Primary School	8 (50.0)	4 (50.0)	4 (50.0)		3 (37.5)	5 (62.5)	

High School	7 (43.8)	4 (57.1)	3 (42.9)		2 (28.5)	5 (71.5)	
ICT Regimen				0.48			0.53
Oral	52 (89.7)	31 (59.6)	21 (40.4)		14 (26.9)	38 (73.1)	
Injection	6 (10.3)	3 (50.0)	3 (50.0)		2 (33.3)	4 (66.7)	
Residential Area				0.02			0.09
Urban	10 (17.2)	9 (90.0)	1 (10.0)		5(50)	5 (50)	
Rural	48 (82.8)	24 (50.0)	24 (50.0)		11 (22.9)	37 (77.1)	
Ferritin Level							
Mean	3120.52 ± 1549.97	2823.65 ± 1804.06	3541.08 ± 984.51	0.30	1323.31 ± 650.1	3805.17 ± 1201.94	0.0001
Good Control	16 (27.6)	13 (81.3)	3 (18.8)		-	-	-
Poor Control	42 (72.4)	21 (50)	21 (50)	0.03	-	-	-

\*Adolescents' educational status: total sample size = 16