

S12: Additional primary outcome analyses

Supplemental Table S3a. Primary outcome: Indication and completion of individual evaluations (missing evaluations excluded)

Variable	Randomized Group			DSC2U vs. Control		P-value
	Overall (N = 216)	Control (N = 111)	DSC2U (N = 105)	Rate Ratio (95% Confidence Interval)	Risk Difference (95% Confidence Interval)	
Celiac screen (bloodwork)						
Indicated evaluations	85 (39.4%)	45 (40.5%)	40 (38.1%)	0.9 (0.7,1.3)	-2.5 (-15.8,10.7)	0.781
Indicated evaluations that were recommended or completed	16 (7.4%)	5 (4.5%)	11 (10.5%)	2.3 (0.9,10.7)	6.0 (-1.2,14.0)	0.120
Indicated evaluations that were completed	14 (6.5%)	5 (4.5%)	9 (8.6%)	1.9 (0.6,7.1)	4.1 (-3.0,11.7)	0.275
Evaluations that were not indicated and completed	40 (18.5%)	14 (12.6%)	26 (24.8%)	2.0 (1.0,3.8)	12.2 (1.4,23.1)	0.024*
Sleep Study						
Indicated evaluations	89 (41.2%)	47 (42.3%)	42 (40.0%)	1.0 (0.7,1.3)	-2.3 (-15.7,11.0)	0.783
Indicated evaluations that were recommended and completed	21 (9.7%)	7 (6.3%)	14 (13.3%)	2.1 (0.9,5.9)	7.1 (-1.1,15.8)	0.108
Indicated evaluations that were completed	12 (5.6%)	3 (2.7%)	9 (8.6%)	3.2 (0.9,15.9)	5.9 (-0.3,13.3)	0.077
Evaluations that were not indicated and completed	41 (19.0%)	23 (20.7%)	18 (17.1%)	0.8 (0.5,1.5)	-3.6 (-14.2,7.2)	0.603
Thyroid test (bloodwork)						
Indicated evaluations	43 (19.9%)	23 (20.7%)	20 (19.0%)	0.9 (0.5,1.6)	-1.7 (-12.5,9.4)	0.865
Indicated evaluations that were recommended or completed	25 (11.6%)	13 (11.7%)	12 (11.4%)	1.0 (0.4,2.2)	-0.3 (-9.4,8.8)	1.000
Indicated evaluations that were completed	21 (9.7%)	12 (10.8%)	9 (8.6%)	0.8 (0.3,1.8)	-2.2 (-10.6,6.2)	0.650
Evaluations that were not indicated and completed	126 (58.3%)	54 (48.6%)	72 (68.6%)	1.4 (1.1,1.8)	19.9 (5.0,32.8)	0.004**

Variable	Randomized Group			DSC2U vs. Control		
	Overall (N = 216)	Control (N = 111)	DSC2U (N = 105)	Rate Ratio (95% Confidence Interval)	Risk Difference (95% Confidence Interval)	P-value
Audiogram						
Indicated evaluations	86 (39.8%)	44 (39.6%)	42 (40.0%)	1.0 (0.7,1.4)	0.4 (-13.1,13.6)	1.000
Indicated evaluations that were recommended or completed	28 (13.0%)	8 (7.2%)	20 (19.0%)	2.6 (1.2,7.2)	11.9 (2.4,21.4)	0.014*
Indicated evaluations that were completed	21 (9.7%)	6 (5.4%)	15 (14.3%)	2.6 (1.0,10.3)	8.9 (0.8,17.6)	0.037*
Evaluations that were not indicated and completed	74 (34.3%)	36 (32.4%)	38 (36.2%)	1.1 (0.8,1.6)	3.8 (-9.1,16.8)	0.570
Ophthalmology						
Indicated evaluations	20 (9.3%)	11 (9.9%)	9 (8.6%)	0.9 (0.3,2.2)	-1.3 (-9.6,7.0)	0.817
Indicated evaluations that were recommended or completed	9 (4.2%)	4 (3.6%)	5 (4.8%)	1.3 (0.3,5.9)	1.2 (-4.9,7.6)	0.743
Indicated evaluations that were completed	7 (3.2%)	4 (3.6%)	3 (2.9%)	0.8 (0.1,3.7)	-0.8 (-6.7,5.0)	1.000
Evaluations that were not indicated and completed	123 (56.9%)	56 (50.5%)	67 (63.8%)	1.3 (1.0,1.6)	13.4 (-0.2,26.5)	0.055

Notes:

P-values calculated by Cochran-Armitage trend test. *P-value <0.05, ** p-value <0.01, *** p-value <0.001