CHAPTER 6

6.0 RESULTS

Forty-three children with ASD across four special schools were finalized for participation in the study. As shown in the CONSORT Flow Diagram, four children with ASD were excluded as they did not meet the inclusion criteria specified for the study. There were no dropouts in the study. Only two participants in the control group (n=2) were excluded from the BOT-2 Brief for motor proficiency analysis as they did not undergo the postintervention assessments due to their sudden absenteeism from school. The baseline demographic characteristics of the participants found no statistically significant differences between two groups on age [t (41) = .231, p >.05] and gender [χ^2 (1, N = 43) = .048, p = .83]. In yoga group total ATEC scores (M = 65.13, SD = 17.82) and control group (M = 64.85, SD = 22.41), t (41) = .046, p >.05. The baseline characteristics of the participants are given in Table 6.1.

TABLE 6.1 BASELINE DESCRIPTIVE STATISTICS OF PARTICIPANTS

Participants	Yoga Group (n=23)	Waitlist control group
		(n=20)
	n/M (SD)	n/M (SD)
Age	9.77(2.63)	9.61(1.93)
Gender (M: F)	19:04	16:04
Total ATEC scores	65.13 (17.82)	64.85(22.41)
(p = 0.96)		
Comorbid diagnosis		
ADHD	2(8.70%)	3(15%)
Comorbidities as reported by parents		
Gastrointestinal issues	4(17.39%)	3(15%)
Anxiety	5(21.74%)	0(0%)
Therapies	1(4.35%)	2(10%)
Speech	0(0%)	1(5%)
Oral Placement therapy	0(0%)	1(5%)
Occupational	1(4.35%)	1(5%)
Auditory	0(0%)	1(5%)
Diet	1(4.35%)	1(5%)
On medication (Allopathic medication)		
Epilepsy	8(34.78%)	6(30%)
Sleep	4(17.39%)	4(20%)
Gastrointestinal issues	3(13.04%)	3(15%)
Homeopathic medicine		
Hyperactivity	0(0%)	1(5%)

Note. ADHD= Attention-deficit hyperactivity disorder

6.2 IMPLEMENTATION OF INTERVENTION AND PARTICIPATION INTEGRITY

Since the intervention was conducted in four special schools, there were few differences in the school holidays due to local festivals. Attendance and the responses are considered the criteria for effective participation in the intervention for children with disabilities (Imms et al., 2016). The attendance records were kept on the school premises after every *yoga* session. The first author collected this every week from each school. The average attendance was 89.4%, indicating students attended 89.4% of the *yoga* sessions. It was collected and reviewed by the first author weekly. Intervention integrity and participation were maintained by daily tracking the PPR and PPNR of the children on the *yoga* feedback checklist completed by *yoga* teachers after every session.

6.3 AUTISM SEVERITY

The baseline was matched for all the variables in ATEC. Table 6.1 shows, a significant group time interaction for the total ATEC Score [F (1,41) = 13.42, p = 0.001, $\eta^2 = 0.247$] and Subscale I (Speech/Language/Communication) [F (1,41) = 6.55, p = 0.014, $\eta^2 = .137$). Further post hoc Bonferroni showed that there was a significant decrease in score for Subscale II (Sociability), p =.004: Ш (Sensory/Cognitive .022: Subscale Awareness) = Subscale IV p (Health/Physical/Behavior), p = .008 and Total ATEC score (p < .001) in the yoga group but a nonsignificant change in the control group. Health/Physical/Behavior (p < 0.005) and Total ATEC Score (p < 0.031) found significant changes when post-score compared between groups.

TABLE 6.3.1 COMPARISON OF MEANS AND STANDARD DEVIATIONS OF ATEC SCORES PRE AND POST-INTERVENTION

	Variables	Group M (SD)					Group Time*		
			Yoga (= 23)	Control (n = 20)		F	df	<i>p</i> -value	Partial eta square (η^2)
		Pre	Post	Pre	Post				
	Total ATEC	65.13	51.83	66.61	65.83	13.42	1,41	.001	.247
	Score	(17.82)	(16.74) ***	(22.73)	(21.28)				
ATEC	Speech/Language/	15.17	13.65	13.0	14.89	6.55	1,41	.014	.137
	Communication	(6.17)	(6.43)	(6.38)	(5.76)				
	Sociability	16.04	12.35	17.33	14.33	.542	1,41	.446	.013
		(6.49)	(5.45) **	(7.86)	(6.80)				
	Sensory/Cognitive	15.61	13.39	16.61	16.89	3.66	1,41	.063	.082
	Awareness	(6.74)	(6.16) *	(6.91)	(6.85)				
	Health/Physical/	18.30	12.52	19.61	19.72	13.42	1,41	.055	.087
	Behavior	(8.83)	(7.27) ** @@	(11.41)	(9.32)				
		Legend: *	p <0.05, **p <	0.01, ***p	<0.001 w	ithin-gr	oup pre	e-to-post compa	rison
		$*^{@}p < 0.05$	5, @@p <0.01, @	p < 0.00	01 post wi	th post-t	o-post	comparison	
		Bold deno	otes group-time	interaction	n				

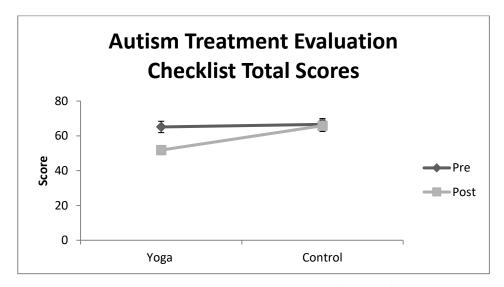


Figure 6.3.1 Pre-post changes in ATEC Total Scores

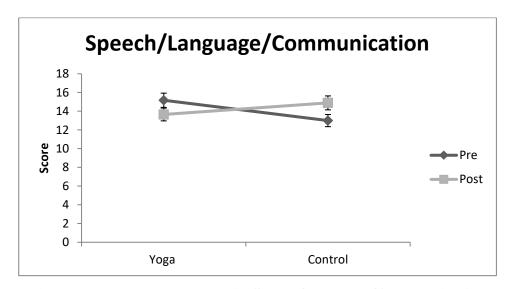


Figure 6.3.2 Pre-post changes in Speech/Language/Communication

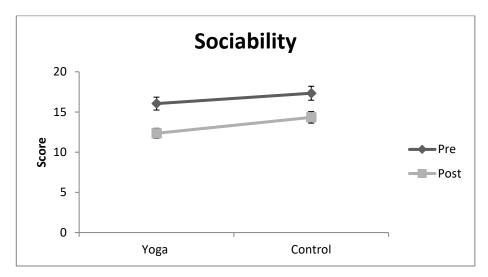


Figure 6.3.3 Pre-post changes in Sociability

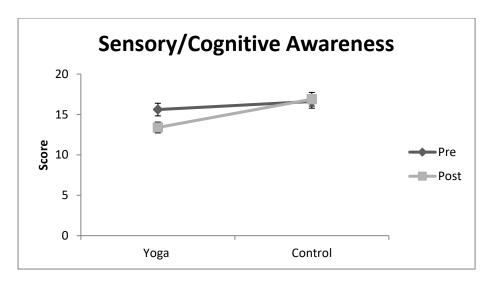


Figure 6.3.4 Pre-post changes in Sensory/Cognitive Awareness

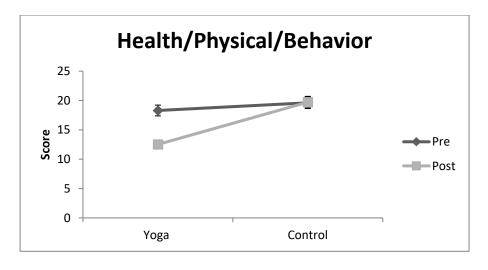


Figure 6.3.5 Pre-post changes in Health/Physical/Behavior

6.4 SOCIAL SKILLS DEFICITS

The baseline was matched for all the variables in SRS-2. Table 6.2 shows, a significant difference between times in total SRS- 2 Score [F (1,41) = 24.58, p < 0.001, η^2 = 0.375] and Subscale II (S. Cognition) [F (1,41) = 11.86, p = 0.001, η^2 = .224), Subscale III (S. Communication) [F (1,41) = 18.98, p <0.001, η^2 = .317), Subscale IV (S. Motivation) [F (1,41) = 5.78, p = 0.021, η^2 = .124) and Subscale V (RRB) [F (1,41) = 17.14, p < 0.001, η^2 = .295) Further post hoc Bonferroni showed that there was a significant decrease in scores for Subscale III (S. Communication), p < .001 and Subscale IV (S. Motivation) p = .026 in the yoga group but a non-significant change in the Control group with significant decrease in scores in both yoga and control group for Subscale II (S. Cognition), p = .014, Subscale V (RRB), p = .003 and Total SRS scores, p <.001, Social Communication, p =.021 found significant change when post scores were compared between groups.

Table 6.4.1

COMPARISON OF MEANS AND STANDARD DEVIATIONS OF SRS-2 SCORES PRE

AND POST-INTERVENTION

	Variable		Group N	I (SD)				Group	Time*
		7	Yoga	Cor	ntrol	F	df	<i>p</i> -value	Partial
		(n	=23)	(n= 20)					eta
									square (η^2)
		Pre	Post	Pre	Post				
	SRS-2 Total	81.30	69.26**	88.17	81.22	1.58	1,41	.215	.039
SRS-2		(28.11)	(22.31)	(26.49)	(28.08)				
	Social	11.26	10.65	11.56	11.33	.407	1,41	0.527	.010
	Awareness	(3.59)	(3.22)	(3.56)	(3.92)				
	Social	15.96	13.78**	17.61	16.0	.276	1,41	.602	.007
	Cognition	(4.96)	(4.51)	(6.06)	(5.95)				
	Social	26.70	21.61****	29.0	26.83	3.02	1,41	.090	.072
	Communication	(10.06)	(6.89)	(10.80)	(10.26)				
	Social	13.48	11.78*	14.89	13.83	.322	1,41	.574	.008
	motivation	(6.62)	(4.68)	(5.14)	(5.10)				
	RRB	13.91	11.43**	15.11	13.22	.251	1,41	.619	.006
		(7.45)	(6.14)	(6.64)	(6.24)				
			p < 0.05, **p						
		•	05, @@p < 0.01		-	with post-to-	post compari	ison	
		Bold den	otes group-tii	ne interac	tion				

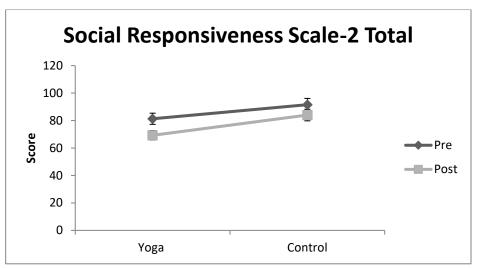


Figure 6.4.1 Pre-post changes in SRS-2 Total Scores

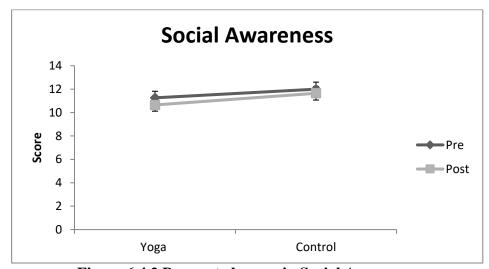


Figure 6.4.2 Pre-post changes in Social Awareness

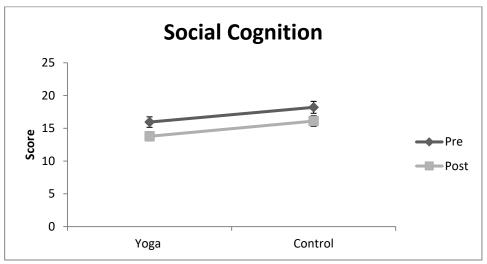


Figure 6.4.3 Pre-post changes in Social Cognition

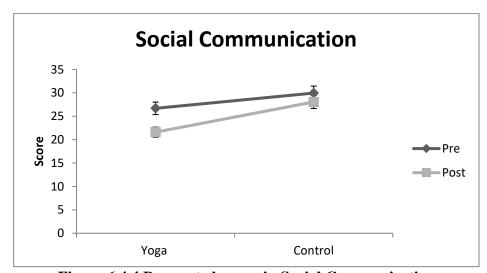


Figure 6.4.4 Pre-post changes in Social Communication

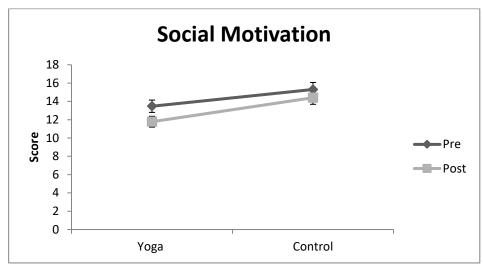


Figure 6.4.5 Pre-post changes in Social Motivation

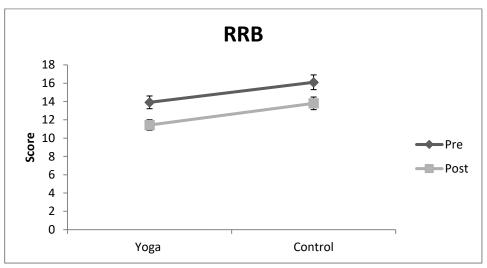


Figure 6.4.6 Pre-post changes in RRB

6.5 PROBLEM BEHAVIORS

The baseline was matched for all the variables in ABC-2 except for Subscale II (Social Withdrawal). Table 6.3 shows, a significant difference between times in Subscale III (Stereotypic Behavior) [F (1,41) = 6.81, p = .013, η^2 = 0.142] and Subscale IV (Hyperactivity/Noncompliance) [F (1,41) = 9.25, p = 0.004, η^2 = .184), Subscale V (Inappropriate Speech) [F (1,41) = 5.99, p = .019, η^2 = .127). Further post hoc Bonferroni showed that there was a significant decrease in scores for Subscale III (Stereotypic Behavior) p = .006 and Subscale IV (Hyperactivity/Noncompliance) p = .002 and Subscale (Inappropriate Speech) p = .028 in the yoga group but non-significant changes in the Control group. The Social Withdrawal was analyzed with the ANCOVA test with baseline pretest values as the covariate, which showed an overall statistically significant difference in the post-intervention between groups [F (1,41) = 4.19, p = 0.005] after their means were adjusted for pre-intervention values.

6.5.1 COMPARISON OF MEANS AND STANDARD DEVIATIONS OF ABC-2 SCORES
PRE AND POST-INTERVENTION

	Variable					Gro	up Time*		
		Yoga (n= 23)		Control (n= 20)		F	df	p- value	Partial eta square(η^2)
		Pre	Post	Pre	Post				
	Irritability	8.96	6.7	15.15	12.2	.163	1,41	.688	.004
ABC-2		(9.29)	(6.6)	(11.97)	(10.29)				
ABC-2	Social Withdrawal	7.87	5.96	14.9	12.9	.005	1,41	.005	.001
		(7.44)	(6.07)	(12.02)	(8.95)				
	Stereotypic Behavior	5.74	3.83**	6.65	6.05	1.86	1,41	.180	.043
		(5.35)	(3.43)	(5.31)	(5.14)				
	Hyperactivity	14.3	9.22**	16.8	15.05	2.2	1,41	.145	.051
		(13.37)	(8.82)	(14.35)	(13.32)				
	Inappropriate Speech	3.48	2.43*	4.15	3.55	.436	1,41	.513	.011
		(4.25)	(3.01)	(4.42)	(4.11)				
		Legend: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ within-group pre-to-post comparison * $^{@}p < 0.05$, * $^{@}p < 0.01$, * $^{@}p < 0.001$ post with post-to-post comparison							
		_	-	_	-	st with p	ost-to-po	st compa	rison
		Bold den	otes group	-time inter	raction				

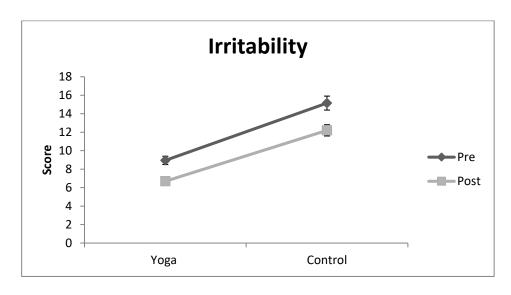


Figure 6.5.1 Pre-post changes in Irritability

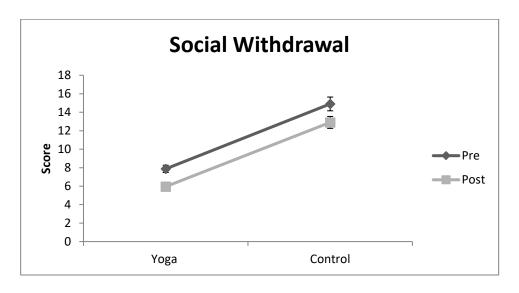


Figure 6.5.2 Pre-post changes in Social Withdrawal

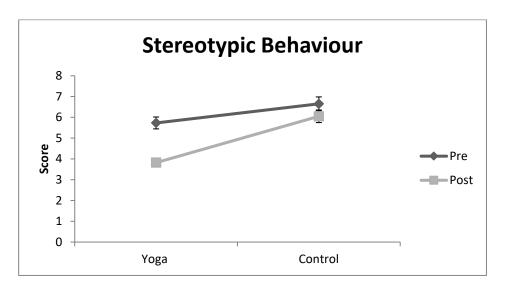


Figure 6.5.3 Pre-post changes in Stereotypic Behavior

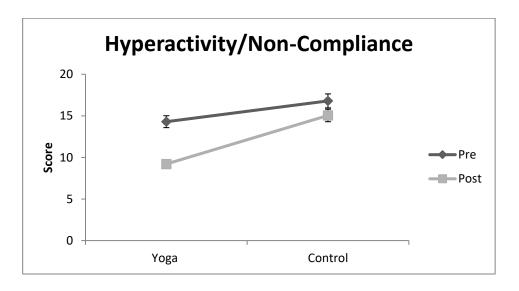


Figure 6.5.4 Pre-post changes in Hyperactivity/Non-Compliance

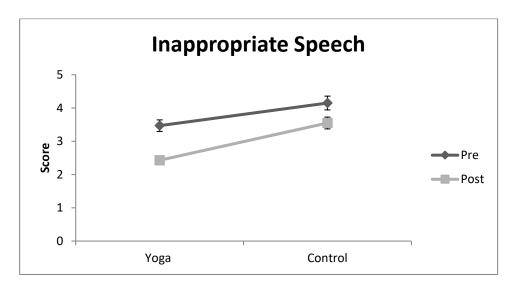


Figure 6.5.5 Pre-post changes in Inappropriate Speech

6.6 MOTOR PROFICIENCY

The baseline was matched for all the variables in BOT- 2 Brief. Table 6.4 shows, a significant group time interaction for the total BOT2 scores [F (1,41) = 8.0, p = 0.007, η^2 = 0.170], Subtest II (Manual Coordination) [F (1,41) = 5.5, p = 0.024, η^2 = .124), Subtest III (Body Coordination) [F (1,41) = 6.6, p = .014, η^2 = .145]. Further post hoc Bonferroni showed that there was a significant decrease in score for Total BOT 2 scores (p = .001), Manual Coordination (p = .034), Body Coordination (p = .004) and Strength & Agility (p = .002) in the yoga group but non-significant change in the Control group. Manual Coordination (p = 0.042) found significant change when post score compared between groups.

6.6.1 ANOVA COMPARISON OF MEANS AND STANDARD DEVIATIONS OF BOT-2 BRIEF SCORES PRE AND POST-INTERVENTION

	Variable		Group N	A (SD)				Gr	oup Time*
			Yoga Control (n= 23) (n= 18)		F	df	<i>p</i> value	Partial eta square(η^2)	
		Pre	Post	Pre	Post				
	BOT-2 Brief	7.65	11.48**	6.89	5.94	8.0	1,41	.007*	.170
BOT 2	Total	(7.7)	(10.64)	(8.26)	(8.53)				
Brief F	Fine Manual	3.52	3.73	2.88	2.55	.383	1,41	0.54	.010
	Coordination	(4.53)	(4.29)	(4.78)	(4.48)				
	Manual	1.86	2.95*@	1.22	1.88	5.5	1,41	.024*	.124
	Coordination		(3.26)	(1.39)	(2.37)				
		(1.57)							
	Body	1.69	3.17**	1.88	1.5	6.6	1,41	.014*	.145
	Coordination	(2.16)	(2.91)	(2.37)	(2.33)				
	Strength and	.478	1.56**	.333	.722	1.99	1,41	.166	.049
	Agility	(1.16)	(1.77)	(.766)	(1.22)				
			Legend: * p <0.05, ** p <0.01, *** p <0.001 within-group pre to post comparison * $^{@}p$ <0.05, * $^{@}p$ <0.01, * $^{@}$ 0 post with post-to-post comparison						
			enotes grou				Tan post		-P

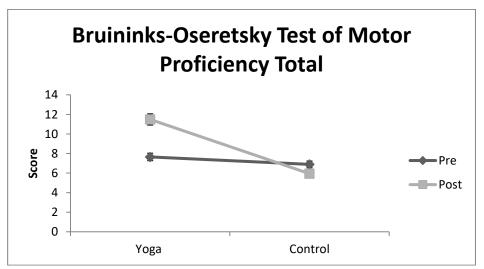


Figure 6.6.1 Pre-post changes in BOT-2 Brief



Figure 6.6.2 Pre-post changes in Fine Manual Coordination

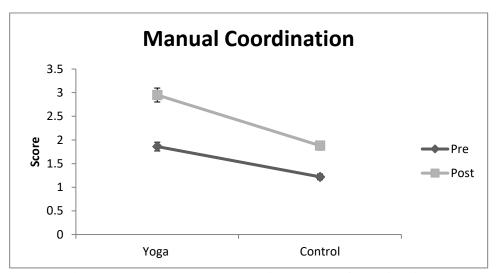


Figure 6.6.3 Pre-post changes in Manual Coordination

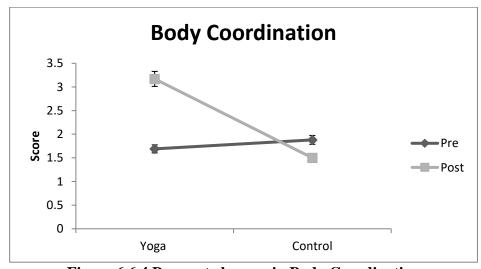


Figure 6.6.4 Pre-post changes in Body Coordination

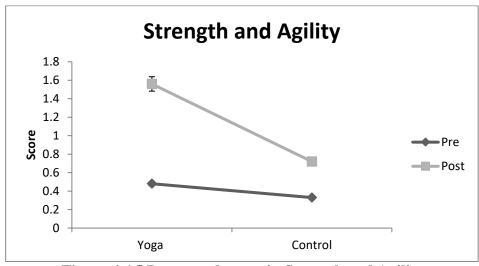


Figure 6.6.5 Pre-post changes in Strength and Agility

6.7 FOOD AND DIGESTION PROBLEMS

Tables 6.7.1 and 6.7.2 show no significance post-intervention in the *yoga* group on any of the items in the food and digestion checklist.

TABLE 6.7.1 GI ITEMS FOR FOOD AND DIGESTION PROBLEMS- WILCOXON SIGNED-RANK TEST (WITHIN-GROUP)

Items	Yoga group (M/SD)		Control gr (M/SD)	oup	z-score		Asymı (2-taile	
	Pre	Post	Pre	Post	Yoga	Control	Yoga	Control
GI I-1	2.35 (1.3)	2.04(1.26)	1.85(1.13)	2(1.29)	- 1.323 ^b	465°	0.186	0.642
GI I-2	1.65(.83)	1.78(1.08)	1.9(1.29)	2.1(1.25)	500°	449 ^c	0.617	0.653
GI I-3	1.35(.98)	1.39(1.07)	1.3(.80)	1.1(.308)	$.000^{d}$	962 ^b	1.0	0.336
GI I-4	2(1.53)	1.87(1.35)	2.65(1.46)	2.2(1.28)	319 ^b	-1.937 ^b	0.75	0.053
GI I-5	2.3(1.25)	2(1.2)	2.35(1.3)	2.55(1.43)	834 ^b	568 ^c	0.404	0.570
GI I-6	2.04(1.43)	2.35(1.43)	1.7(1.03)	1.6(1.09)	- 1.166 ^c	333°	0.244	0.739
GI I-7	2.04(1.33)	2.13(1.39)	2.5(1.63)	2.55(1.46)	361 ^d	265 ^b	0.718	0.791
GI I-8	2.09(1.34)	2.04(1.22)	2.05(1.43)	2.65(1.66)	136 ^b	-1.705 ^b	0.891	0.088
GI I-9	3.22(1.34)	2.87(1.18)	3.1(1.51)	3.55(1.31)	- 1.279 ^b	-1.145 ^c	0.201	0.252
GI I-10	2.57(1.37)	2.26(1.35)	2.05(1.5)	2.4(1.5)	885 ^c	823°	0.376	0.410
GI I-11	2.39(1.15)	2.26(1.17)	1.85(1.38)	2.05(1.39)	406 ^d	597 ^b	0.684	0.550
GI I-12	2.39(1.27)	2.61(1.55)	2.25(1.58)	2.35(1.38)	383 ^b	428 ^b	0.701	0.669
GI I-13	2(1.38)	1.91(1.41)	1.35(.87)	1.85(1.22)	399 ^b	-1.298 ^c	0.690	0.194
GI I-14	1.74(1.32)	1.57(1.12)	2.1(1.44)	1.7(1.3)	638 ^c	-1.381 ^c	0.524	0.167
GI I-15	1.74(.81)	1.96(1.29)	1.65(1.26)	1.9(1.33)	749 ^d	710 ^b	0.454	0.478
GI I- 16	1.83(1.43)	2.13(1.63)	1.5(1.23)	1.7(1.12)	- .1.063 ^b	782 ^b	0.288	0.434

Note* GI I (Gastrointestinal items), a. Wilcoxon signed-rank test; b. based on positive ranks; c. based on negative ranks; d. the sum of negative ranks is equal to the sum of positive ranks

TABLE 6.7.2 GI ITEMS FOR FOOD AND DIGESTION PROBLEMS -MANN-WHITNEY TEST (BETWEEN-GROUP)

Group		Mann-	t	Signed Test Statistics		
Yoga (n=23) Control (n=20)	Mean Rank		Sum of I	Ranks	Mann- Whitney U	
	Yoga	Control	Yoga	Control		
GI 1 Pre	23.93	19.78	550.50	395.50	185.5	
GII 1 Post	22.26	21.7	512	434	224	
GI I_2_Pre	21.59	22.48	496.5	449.5	220.5	
GI I 2 Post	20.52	23.7	472	474	196	
GI I_3_Pre	21.87	22.15	503	496.5	227	
GI I_3_Post	22.43	21.5	516	430	220	
GII 4 Pre	19.43	24.95	447	499	171	
GI I_4_Post	20.09	24.2	462	484	186	
GI I_5_Pre	21.7	22.35	499	447	223	
GI I_5_Post	19.5	24.88	448.5	497.5	172.5	
GI I_6_Pre	23.09	20.75	531	415	205	
GI I_6_Post	24.85	18.73	571.5	374.5	164.5	
GI I_7_Pre	20.43	23.8	470	476	194	
GI I_7_Post	20.28	23.98	466.5	479.5	190.5	
GI I_8_Pre	22.39	21.55	515	431	221	
GI I_8_Post	20.11	24.18	462.5	483.5	186.5	
GI I_9_Pre	22.2	21.78	510.5	435.5	225.5	
GI I_9_Post	18.87	25.6	434	512	158	
GI I_10_Pre	24.15	19.53	555.5	390.5	180.5	
GI I_10_Post	21.28	22.83	489.5	456.5	213.5	
GI I_11_Pre	18.53	25.02	575.5	370.5	160.5	
GI I_11_Post	23.09	20.75	531	415	205	
GI I_12_Pre	22.83	21.05	525	421	211	
GI I_12_Post	23.07	20.78	530.5	415.5	205.5	
GI I_13_Pre	24.52	19.1	382	564	172	
GI I_13_Post	22.11	21.88	508.5	437.5	227.5	
GI I_14_Pre	20.67	23.53	475.5	470.5	199.5	
GI I_14_Post	21.61	22.45	497	449	221	
GI I_15_Pre	23.89	19.83	549.5	396.5	186.5	
GI I_15_Post	22.22	21.75	511	435	225	
GI I_16_Pre	23.04	20.80	530	416	206	
GI I_16_Post	22.83	21.05	525	421	211	

G I = Gastrointestinal Item; a. Wilcoxon Signed Ranks Test; b. Based on positive ranks , c. Based on negative ranks; d. The sum of negative ranks equals the sum of positive ranks

6.8 SLEEP DISORDERS

Table 6.8.1 and 6.8.9 shows no significance in the *yoga* group post-intervention on any of the items in the sleep checklist.

TABLE 6.8.1 SLEEP ITEMS FOR SLEEP DISORDERS - WILCOXON SIGNED-RANK TEST (WITHIN-GROUP)

Items	(M/SD)		Control gr (M/SD)	oup	z-score		Asymp. Sig. (2-tailed)		
	Pre	Post	Pre	Post	Yoga	Control	Yoga	Control	
SI-1	2.09(1.53)	1.7(1.1)	1.7(1.21)	1.4(.88)	-1.631 ^b	-1.566 ^b	.103	.226	
SI-2	2.26(1.28)	1.65(1.02)	1.55(.945)	1.5(.82)	-1.566 ^b	499 ^b	.117	.618	
SI-3	2.04(1.14)	1.96(1.1)	2.75(1.41)	2.55(1.31)	397 ^c	556 ^c	.691	.578	
SI-4	1.96(1.33)	1.61(1.07)	1.6(.94)	1.65(1.18)	-1.543°	172 ^b	.123	.863	
SI-5	2.91(1.37)	2.17(1.37)	2.15(1.13)	2.05(1.14)	-1.953 ^b	454 ^b	.051	.65	
SI-6	2.22(1.38)	2(1.41)	1.9(1.16)	1.6(.88)	929 ^b	964 ^b	.353	.335	
SI-7	2.61(1.4)	2.74(1.32)	2.55(1.09)	2.1(.96)	145 ^c	-1.727 ^c	.885	.084	
SI-8	1.74(1.25)	1.74(1.32)	1.85(1.34)	2(1.58)	085°	258 ^c	.932	.796	
SI-9	1.74(1.48)	1.52(1.27)	1.65(1.26)	1.75(1.55)	736 ^b	340 ^b	.461	.734	
SI-10	1.43(.788)	1.48(.79)	1.65(.988)	1.85(1.08)	123 ^b	1.265 ^b	.902	.206	
SI-11	3.09(1.37)	2.83(1.23)	3.05(1.57)	3(1.45)	966 ^c	344 ^c	.334	.731	
SI-12	1.83(1.15)	1.57(.94)	1.6(1.04)	1.7(1.17)	934 ^c	530 ^b	.351	.596	
SI-13	3.09(1.56)	3.22(1.41)	3.6(1.31)	3.55(1.31)	562 ^b	312 ^b	.574	.755	
SI-14	1.57(.84)	1.65(.93)	2.25(1.41)	2.2(1.05)	513 ^b	247 ^b	.608	.805	
SI-15	1.96(1.39)	1.57(1.03)	2.05(1.57)	1.55(1.19)	-1.628 ^c	-2.271°	.103	.023	
* -	T (01						<u> </u>		

Note* SI (Sleep items), a. Wilcoxon signed-rank test; b. based on positive ranks; c. based on negative ranks; d. the sum of negative ranks is equal to the sum of positive ranks

TABLE 6.8.2 SLEEP ITEMS FOR SLEEP DISORDERS -MANN-WHITNEY TEST (BETWEEN-GROUP)

Group		Signed							
Yoga (n=23) Control (n=20)		Mann-Whitney Test							
()	Mean R	Rank	Sum of	Ranks	Mann- Whitney U				
	Yoga	Control	Yoga	Control					
SI-1_Pre	23.2	20.63	533.5	412.5	202.5				
SI -1_Post	23.48	20.30	540	406	196				
SI - 2_Pre	25.09	18.45	577	369	159				
SI- 2_Post	22.43	21.5	516	430	220				
SI-3_Pre	19	25.45	437	509	161				
SI-3_Post	19.39	25	446	500	170				
SI-4_Pre	23.07	20.78	530.5	509	205.5				
SI-4_Post	22.28	21.68	512.5	433.5	223.5				
SI-5_Pre	25.24	18.28	580.5	365.5	155.5				
SI-5_Post	22.17	21.8	510	436	226				
SI- 6_Pre	23.17	20.65	533	413	203				
SI-6_Post	22.98	20.88	528.5	417.5	207.5				
SI-7_Pre	21.98	22.03	505.5	440.5	229.5				
SI- 7_Post	24.87	18.7	572	374	164				
SI-8_Pre	21.52	22.55	495	451	219				
SI-8_Post	21.3	22.8	490	456	214				
SI-9_Pre	21.91	22.1	504	442	228				
SI-9_Post	21.63	22.43	497.5	448.5	221.5				
SI-10_Pre	20.98	23.18	482.5	463.5	206.5				
SI-10_Post	20.24	24.03	465.5	480.5	189.5				
SI-11_Pre	21.98	22.03	505.5	440.5	229.5				
SI -11_Post	21.3	22.8	490	456	214				
SI-12_Pre	23	20.85	529	417	207				
SI-12_Post	21.54	22.53	495.5	450.5	219.5				
SI-13_Pre	20.22	24.05	465	481	189				
SI-13_Post	20.63	23.58	474.5	471.5	198.5				
SI-14_Pre	19.3	25.1	444	502	168				
SI -14_Post	19.04	25.4	438	508	162				
SI-15_Pre	22.02	21.98	506.5	439.5	229.5				
SI-15_Post	22.43	21.5	516	430	220				

S I = Sleep Item; a. Wilcoxon Signed Ranks Test; b. Based on positive ranks c. Based on negative ranks; d. The sum of negative ranks equals the sum of positive ranks

6.9 FEASIBILITY OF CONDUCTING A REGULAR GROUP *YOGA* PROGRAM FOR CHILDREN WITH ASD

The percentage of PPR under the five *Yoga* components of the *Yoga* feedback checklist were: Chanting—75.49%, Preparatory practices—94.12%, *Yoga* postures—94.32%, Breathing practices—75.19%, and Relaxation—91.12%, with Total PPR—86.15%.