

*

(DSAB) (Diagnostic Scale for Autistic

(350)

Behavior)

(118)

(82)

(150) :

.(17-14) (13-10) (9-6) :

(17-6)

.(%100-%70)

(Smadi, 1985)

(ABC)

(0.886)

(%57.666)

(3)

(0.939)

(0.975)

.(0.946 -0.880)

(350=)

.()

(DSAB)

:

.(ABC)

(Psychosis) " "

(Pervasive

(Autism)

Developmental Disorders, PDD)

(Autism Spectrum Disorders, ASD)

-

*

(American (2000)

Psychiatric Association, Diagnostic and Statistical Manual
of Mental Disorders - Text Revision, 2000)

.2008/11/9

2008/2/13

/

(International
Classification of Diseases, ICD-10)
(World Health Organization, WHO, 1992)
(Leo Kanner)
(1943)

(Mutism)

(Rutter) (1978)

(1994)

(DSM-IV: 1994)

(DSM-IV-TR: 2000) (2000)

(Wing, 1993) (30)

(1980)

(APA, DSM-III: 1980)

(3) (2) (1)
:(3) (2)

(1)

.1

(30)

(1987)

(APA, -

DSM- III-R: 1987)

)

(1992)

(WHO, ICD-10:1992)

.2

)

(

:

.3

(DSAB)

:

.1

(DSAB)

.2

(DSAB)

.3

(DSAB)

.(DSM-IV- TR, 2000)

.1

.2

.3

:

:

.1

.2

.3

.4

(Gilliam Autism Rating Scale,

GARS)

.(Autism Treatment Evaluation Checklist, ATEC)

)

(17-6)

(Diagnostic Scale for Autistic Behavior, DSAB

(80=)
 (0.83- 0.80)
 .(0.96-0.95)
 (2002)
 (CARS)
 (Asperger's Syndrome)
 (Pervasive
 Developmental Disorder-Not Otherwise Specified,PDD-
 NOS)
 (26) (54) (105)
 (25)

(Smadi,
 (2006) 1985)
 (ABC)

(2006)
 (116) : (0.05 = α)) (

(Gilliam Autism Rating Scale (GARS))

(1080)

(1092)

(DSM-IV)

(22-3)

(85=)

(4)

(14)

(14)

(14)

(2004)

(14)

(0.66)

(13)

(1080=)

(%72)

(ABC)

(.0.92)

(Two-way MANOVA)

(0.05= α)

(0.89)

(0.90)

(0.996)

(35=)

(0.88)

(0.93)

(0.992)

(0.973)

(1092)

(1080=)

(19-1)

(+131 -69>)

(Krug, Arick and Almond, 1980)

/ (131) :

(Autism

/ (120-111) /

(130-121)

Behavior Checklist (ABC))

/ (89-80) /

(110-90)

(57)

(69) /

(79-70)

(Cohen, Allen and Gillberg, 1992)

(18)

(The Checklist for Autism in Toddlers (CHAT))

(9)

(5)

(41)

(0.95)

(50)

(.0.94)

(Gilliam, 1995)

(DSM-IV-TR: 2000)

(18)

(30)

(18)

()

(Lord et al., 2000)

(ADOS)

(PL-

ADOS)

(Autism Diagnostic

Observational Schedule - Generic (ADOS-G))

:

(223)

(40 - 15)

(De Bildt et al., 2004)

(ADI-R) (ADOS-G)

(184=)

(17-6)

(8-5)

(8)

(1)

(1)

(350=)

	17-14	13-10	9 - 6	
150	50	50	50	
82	26	28	28	
118	36	40	42	
350	112	118	120	

.1
 ()
 - :
) -
 (American Psychiatric Association, DSM-IV-TR: ()
 : 2000) :
 -
 .
 -
 :
 .1
 .(Autism Disorders)
 .2
 (10 =) .(Smadi, 1985)
 .2
 .(DSM-IV-TR: 2000) -
 .
 (Autism Treatment Evaluation
 .3 Checklist, ATEC)
 : (60) (GARS)
 ABC :
 .(DSM-IV-TR: 2000)
 .
 (2)
 :

13		1
14		2
8		3
11		4
14		5
60		

(Smadi, 1985) .4 (Concurrent Validity)

(
 .(30 =) (Raters' Agreement Procedure)
 : - (30=)
)
 .(
 .(350 =)

:
 : -
 : (10 =)
 (Content Validity) .1

(10 =)
 (Smadi, (ABC)
 .(50 =) (DSAB) 1985)
 .(%100-%70) : -

(60)
 :
 (2) (Two-Way Manova)

(Concurrent Validity) .2
 (DSAB)
 (ABC)
 (Smadi, 1985)
 (50) : -

(3)) ()

(4) (ABC) (3) (DSAB)

(50=)

	17-14	13-10	9-6	
20	5	7	8	
20	2	8	10	
10	1	4	5	
50	8	19	23	

(4)

(ABC)

(DSAB)

(ABC)	
*0.851	
*0.820	
*0.819	
*0.807	
*0.843	
*0.886	

.001

*

(DSM)

(4)

(DSAB)

(ABC)

(0.886)

(ABC)

(Construct Validity)

.3

(0.807)

(ABC)

(0.851)

(Factor Analysis Results)

-

(0.01= α)

(Gilliam, 1995)

(3)

(%57.666)

(GARS)

(DSM IV:1994)

(5)

(.DSAB)

(0.92)

(Lord, (2006) (2003) :
 (Gilliam, 1995) LeCouteur and Rutter, 1994)
 (Schopler, Rechler and Runner, (Dialavore et al., 1995)
 .(Krug, Arick and Almond, 1980) 1988)

(Two-Way Manova Results) -

(6) (0.05= α)

.(350=)

(5)

34		1
20		2
6		3
60		

(6)

(350=)

2.9796	1.2041	6.122	0.2245	0.2653	1.2245			9-6
4.1708	1.5940	0.2422	0.5868	0.8360	2.1628			
31.5000	7.5000	2.2500	4.1786	8.9643	8.6071			
5.5008	2.6874	1.0758	2.4803	2.6872	2.7801			
84.7857	21.5238	6.9048	13.1190	17.9048	25.4444			
12.3970	5.0473	2.0098	5.0374	4.3438	4.9910			

38.5630	9.8571	2.9916	5.7059	8.5378	11.4706			
36.9525	9.6122	3.2923	6.5540	8.2573	11.2369			
1.2000	0.5600	2.000	0.1200	8.000	0.4200			
3.3746	1.3273	0.1414	0.5206	0.3959	1.3107			
33.2857	7.7857	1.8571	3.4286	10.5714	9.6786			
6.6213	2.8461	1.4836	1.8744	2.9743	3.7422			
85.7250	22.1000	7.1250	12.8500	17.8250	25.8250			13-10
13.0600	5.1481	2.0778	4.6825	4.5171	5.4391			
37.4661	9.5763	2.8644	5.2203	8.5847	11.2288			
37.8708	10.0285	3.4441	6.3261	8.3639	11.7112			
0.4600	0.3400	0.0000	6.000	0.000	6.000			
1.3734	0.9392	0.0000	0.4243	0.000	0.4243			
31.1538	6.8462	2.0000	3.6923	9.5769	9.0385			
7.1593	3.1584	1.1662	2.2230	3.4545	3.3164			
86.7778	21.7222	7.3056	13.3611	18.2222	26.1667			17-14
16.6186	5.3911	1.7373	4.9115	5.6776	6.0781			
35.3304	8.7232	2.8125	5.1786	8.0804	10.5357			
38.8549	9.9541	3.3946	6.5447	8.7262	11.9751			
1.5369	0.6980	0.0265	0.1342	0.1141	0.5638			

3.3400	1.3542	0.1622	0.5154	0.5394	1.5436			
32.0000	7.3902	2.0366	3.7683	9.7073	9.1098			
6.4349	2.8878	1.2516	2.2016	3.0812	3.2924			
85.7119	21.7797	7.1017	13.1017	17.9746	25.7542			
13.9278	5.1493	1.9454	4.8435	4.8047	5.4552			
37.1547	9.3983	2.8911	5.3725	8.4069	11.0888			
37.7958	9.8476	3.3681	6.4607	8.4248	11.6113			

(7)

(350=)

0.884	0.123	9.928	2	19.856		
0.000	2909.723	234376.172	2	468752.343		
0.453	0.919	73.997	4	295.988	x	
		80.549	340	27386.767		
			348	497125.645		
0.858	0.153	2.095	2	4.191		
0.000	1542.105	21078.694	2	42157.388		
0.335	1.146	15.669	4	2.677	x	
		13.669	340	4647.386		
			348	46918.246		
0.578	0.549	5.606	2	11.212		
0.000	1036.333	10579.790	2	21159.580		
0.455	0.916	9.349	4	37.394	x	
		10.209	340	3471.015		
			348	24700.223		

0.650	0.432	4.018	2	8.037	
0.000	609.166	5666.933	2	11333.867	
0.933	0.210	1.953	4	7.814	x
		9.303	340	3162.944	
			348	14525.576	
0.839	0.176	0.294	2	0.588	
0.000	1010.048	1687.695	2	3375.391	
0.554	0.757	1.264	4	5.057	x
		1.671	340	568.108	
			348	3947.862	
0.499	0.696	8.213	2	16.426	
0.000	1255.939	14812.310	2	29624.621	
0.730	0.508	5.996	4	23.983	x
		11.794	340	4009.896	
			348	33747.639	

(6)

(3-0)

(7)

(7)
(0.05= α)

:) :
.1 .(

() (0.05= α)
(30 =)

(DSM IV-TR:2000)

(0.939)

...

.(0.01= α)

.2

(8) (350 =)

(8)

(350 =)

0.946	
0.880	
0.884	
0.902	
0.892	
0.975	

)

.(

(43-16)

(66-43)

.(100-66)

(8)

(0.975)

(0.880 - 0.946)

(1)

(9)

(DSAB)

(9)

32.03	27.95	23.23	23.68	28.4	28.39	
56.29	54.89	54.94	55.08	56.56	55.55	
83.67	84.47	84.28	85.28	85.64	83.68	

)

(...

.1

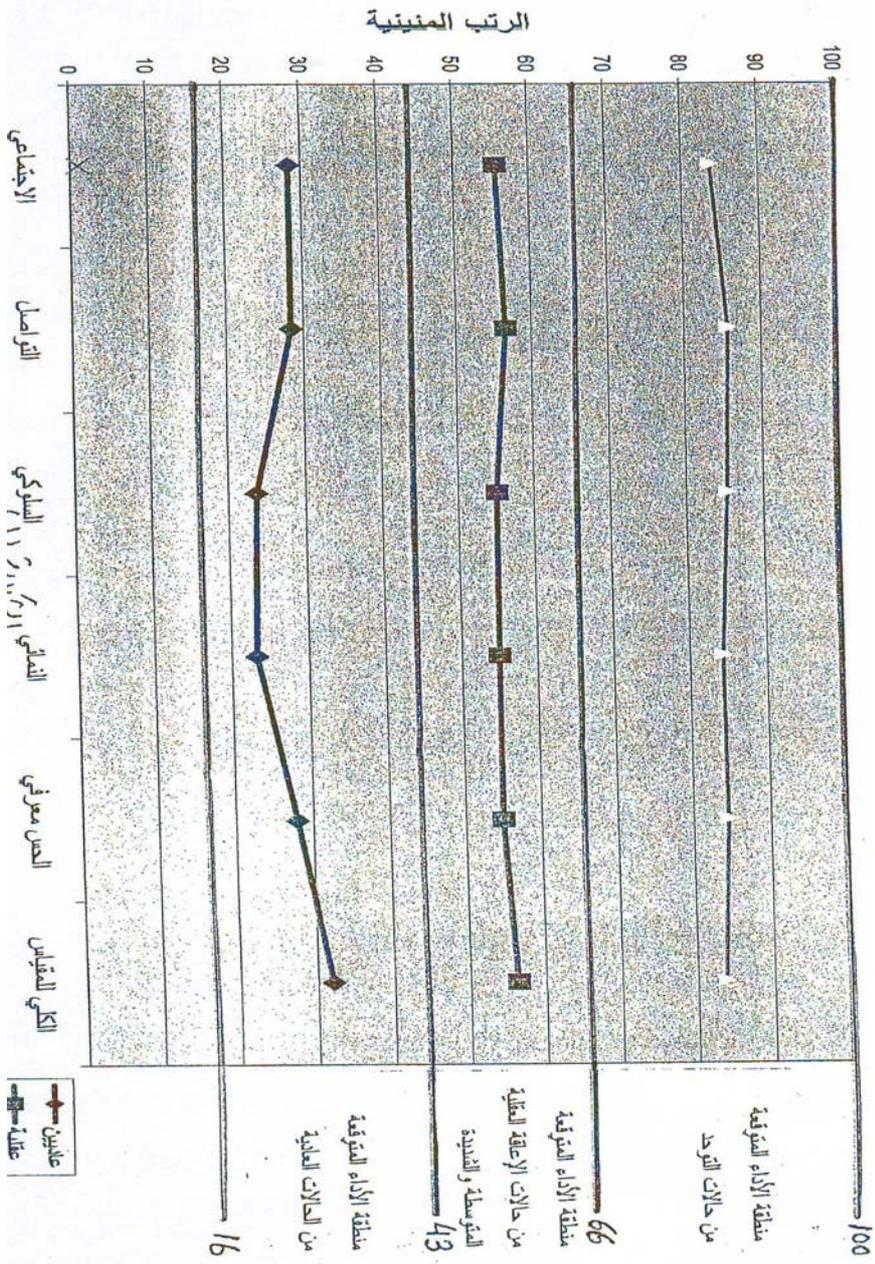
.2

	-	
(3 - 0)	(.3
:		
	:0	
	:1	.4
	:2	
	:3	
	()	.5
	:)
.(1)	:	(
.(0)	:	(DSAB)
(35-20)		.6
	.1	.7
(PDD-NOS)		
	.2	
(30-18)		.3
		-
	.4	
)	" "
		(...
		-

(GARS)

(ADI)

(CHAT)



(1)

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Constructing a Diagnostic Scale for Autistic Behavior and Its Effectiveness in a Jordanian Sample of Autistic, Mentally Retarded and Normal Cases

*Imam Qazzaz and Farouq Al-Rousan**

ABSTRACT

The main purpose of this study was to investigate the effectiveness of a scale designed for diagnosing autism cases and differentiate them from moderately and severely mental retarded cases and normal cases in a Jordanian sample, by the indications of the scale validity, reliability and primary norms of the study sample on the Diagnostic Scale of Autistic Behavior (DSAB) in a Jordanian environment. The study sample constituted of (350) examinees distributed according to mental status and age category as follows: (150) normal cases, (82) moderate and severe mentally retarded cases and (118) autistic cases. Children were selected intentionally and their ages ranged from (6-17) years within (3) age categories: (6-9), (10-13), (14-17).

The validity of the scale was achieved by using the content validity where the arbitrators' agreement ratio on the dimensions and items linguistic formulation and the items correlation with the scale's dimensions was (70%-100%). The concurrent validity indications of the scale were obtained via calculating the correlation coefficient among the performances regarding the scale study and statement of the Jordanian form of Autism Behavior Checklist (ABC) that (smadi, 1985) developed, where the total correlation coefficient was (0.886). As the indications of construction validity by the factors analysis procedure, it was found that (3) factors interpreted (57.666%) of the differences interpreted by the scale items. There were indications on scale differentiation validity as the mental status variables without age category or interaction between both by (Two way- MANOVA), the findings of this analysis according to the variable of mental status referred to the existence of the statistical differences at (Alpha=0.05) in all dimensions and in the total degree.

There were indications related to the reliability of the scale represented by calculating the reliability by raters' agreement procedure (n=30) and the correlation coefficient was (0.939) at (Alpha=0.01), while using the internal consistency approach by the method of Cronbach Alpha (n=350), the correlation coefficient value of the total degree was (0.975) and the dimensions reliability coefficients ranged between (0.946-0.880).

To achieve the performance levels of the scale, means and standard deviations were calculated for the raw scores of the study subjects (n=350) for the different dimensions and the total degree, then standard degrees and percentile ranks corresponding for the raw scores were calculated for each of the mental status categories and age categories, then the means of raw scores were transferred to percentile ranks to design the diagram chart of performance areas for each mental status (normal cases, moderate and severe mentally retarded cases and autism cases).

Keywords: Autistic Disorder, The Diagnostic Scale for Autistic Behavior (DSAB), Mental Retardation, Jordanian Environment, Autism Disorders Spectrum, Pervasive Developmental Disorders, Autism Behavior Checklist (ABC).

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