



Epidemiologia i Diagnòstic en Psicopatologia del Desenvolupament (UED)
Universitat Autònoma de Barcelona (UAB), Bellaterra (BCN), Spain

Normative SDQ Data from Spain for preschool-age children (3-4 years)

The following norms are based on study of parents and teachers who completed SDQs on 1341 and 625 children aged 3 year-old, respectively, attending schools in Barcelona (Spain). Data for 4-year-old children correspond to the assessment at one-year follow-up and 599 and 607 questionnaires were available for parents and teachers, respectively. These norms have been weighted in accordance with the sample design; sample characteristics and design are described in:

Ezpeleta, L., de la Osa, N., & Doménech, J. M. (2014). Prevalence of DSM-IV disorders, comorbidity and impairment in 3-year-old Spanish preschoolers. *Social Psychiatry and Psychiatric Epidemiology*, 49(1), 145-155. <https://doi.org/10.1007/s00127-013-0683-1>

Psychometric properties in the 3 year-old sample are available in:

Ezpeleta, L., Granero, R., de la Osa, N., Penelo, E. & Doménech, J.M. (2013). Psychometric properties of the Strengths and Difficulties Questionnaire 3-4 in 3 year-old preschoolers. *Comprehensive Psychiatry*, 54(3), 282-291. <https://doi.org/10.1016/j.comppsy.2012.07.009>

Means and standard deviations split by age and gender

3 years old	Parent SDQ		Teacher SDQ	
	Females <i>N</i> = 658	Males <i>N</i> = 683	Females <i>N</i> = 310	Males <i>N</i> = 315
Total	8.94 (5.06)	9.79 (5.41)	6.98 (5.47)	8.64 (5.71)
Emotional	1.57 (1.64)	1.52 (1.57)	1.31 (1.77)	1.35 (1.70)
Conduct	2.55 (1.81)	2.68 (1.88)	1.72 (1.95)	2.02 (2.12)
Hyperactivity	3.51 (2.39)	4.15 (2.53)	2.58 (2.60)	3.72 (2.92)
Peer	1.34 (1.49)	1.44 (1.73)	1.37 (1.61)	1.56 (1.73)
Prosocial	8.08 (1.60)	7.61 (1.70)	7.33 (2.19)	6.24 (2.22)
Impact	0.18 (0.76)	0.30 (1.08)	0.29 (0.87)	0.45 (0.99)

Spanish norms for SDQ³⁻⁴ for 3-4 year-old preschoolchildren

Unitat d'Epidemiologia i de Diagnòstic en Psicopatologia del Desenvolupament (www.ued.uab.cat)

v.26.04.2018

4 years old	Parent SDQ		Teacher SDQ	
	Females	Males	Females	Males
	<i>N</i> = 297	<i>N</i> = 302	<i>N</i> = 304	<i>N</i> = 303
Total	6.51 (4.63)	8.02 (5.17)	6.88 (5.22)	8.70 (6.05)
Emotional	0.95 (1.39)	1.11 (1.49)	1.39 (1.73)	1.47 (1.76)
Conduct	1.89 (1.68)	2.26 (1.85)	1.60 (1.891)	1.97 (2.32)
Hyperactivity	2.77 (2.25)	3.65 (2.60)	2.60 (2.57)	3.95 (3.04)
Peer	0.89 (1.31)	1.00 (1.50)	1.29 (1.51)	1.30 (1.64)
Prosocial	8.51 (1.56)	7.95 (1.67)	7.62 (2.05)	6.45 (2.32)
Impact	0.19 (0.78)	0.38 (0.98)	0.27 (0.70)	0.59 (1.13)

Frequency distributions split by age and gender

1) SDQ total difficulties score, Spanish 3 year old

Total difficulties score	Parent SDQ				Teacher SDQ			
	Females N = 658		Males N = 683		Females N = 310		Males N = 315	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	1.2	1.2	1.0	1.0	4.2	4.2	4.2	4.2
1	2.0	3.2	1.5	2.5	5.1	9.3	7.0	11.2
2	4.0	7.2	2.9	5.4	6.5	15.8	8.6	19.8
3	4.4	11.6	4.6	10.0	6.9	22.7	7.9	27.7
4	7.6	19.2	5.4	15.4	5.6	28.3	7.3	35.0
5	5.8	25.0	4.7	20.1	5.5	33.8	6.9	41.9
6	8.9	33.9	9.3	29.4	6.4	40.2	5.7	47.6
7	10.2	44.1	9.0	38.4	5.8	46.0	6.3	53.9
8	9.0	53.1	8.7	47.1	6.4	52.4	6.2	60.1
9	6.0	59.1	6.9	54.0	4.5	56.9	5.6	65.7
10	7.6	66.7	7.6	61.6	7.0	63.9	5.3	71.0
11	7.8	74.5	5.1	66.7	7.6	71.5	5.1	76.1
12	6.1	80.6	5.9	72.6	4.2	75.7	4.5	80.6
13	3.2	83.8	5.9	78.5	5.1	80.8	3.3	83.9
14	2.7	86.5	3.7	82.2	3.4	84.2	2.4	86.3
15	4.0	90.5	3.2	85.4	3.0	87.2	2.0	88.3
16	1.4	91.9	2.6	88.0	3.4	90.6	3.1	91.4
17	1.8	93.7	3.5	91.5	1.9	92.5	1.7	93.1
18	1.7	95.4	2.1	93.6	3.1	95.6	2.3	95.4
19	1.4	96.8	1.5	95.1	1.4	97.0	1.0	96.4
20	0.5	97.3	0.7	95.8	0.6	97.6	1.6	98.0
21	0.3	97.6	1.6	97.4	0.6	98.2	0.7	98.7
22	0.3	97.9	0.4	97.8	0.2	98.4	0.2	98.9
23	0.6	98.5	0.4	98.2	0.2	98.6	0.5	99.4
24	0.2	98.7	0.4	98.6	0.2	98.8	0.2	99.6
25	0.2	98.9	0.3	98.9	0.8	99.6	0.3	99.9
26-40	1.1	100.0	0.9	100.0	0.4	100.0	0.1	100.0

2) SDQ emotional symptoms score, Spanish 3 year olds

Emotional symptoms score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 658		N = 683		N = 310		N = 315	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	31.3	31.3	30.7	30.7	47.8	47.8	44.7	44.7
1	26.4	57.7	26.9	57.6	19.5	67.3	20.2	64.9
2	19.8	77.5	22.6	80.2	13.3	80.6	13.5	78.4
3	10.7	88.2	9.4	89.6	7.9	88.5	9.8	88.2
4	5.3	93.5	5.3	94.9	2.7	91.2	7.0	95.2
5	3.8	97.3	2.3	97.2	4.9	96.1	1.9	97.1
6	1.2	98.5	1.8	99.0	2.7	98.8	0.5	97.6
7	0.8	99.3	0.1	99.1	0.8	99.6	1.7	99.3
8	0.5	99.8	0.7	99.8	0.0	99.6	0.8	100.0
9	0.2	100.0	0.0	99.8	0.2	99.8		
10			0.2	100.0	0.2	100.0		

3) SDQ conduct problems score, Spanish 3 year old

Conduct symptoms score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 658		N = 683		N = 310		N = 315	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	14.0	14.0	12.0	12.0	37.8	37.8	31.4	31.4
1	17.8	31.8	17.8	29.8	19.8	57.6	19.8	51.2
2	18.9	50.7	21.4	51.2	14.2	71.8	17.3	68.5
3	21.8	72.5	18.8	70.0	9.7	81.5	8.1	76.6
4	13.9	86.4	12.2	82.2	6.5	88.0	9.2	85.8
5	7.3	93.7	9.3	91.5	5.7	93.7	6.5	92.3
6	4.4	98.1	5.6	97.1	4.0	97.7	3.4	95.7
7	0.8	98.9	1.9	99.0	1.4	99.1	2.5	98.2
8	0.8	99.7	0.3	99.3	0.5	99.6	0.8	99.0
9	0.5	100.0	0.7	100.0	0.5	100.0	0.6	99.6
10							0.5	100.0

4) SDQ hyperactivity-inattention score, Spanish 3 year old

Hyperact. inattent. score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 658		N = 683		N = 310		N = 315	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	9.2	9.2	6.3	6.3	25.4	25.4	16.6	16.6
1	13.0	22.2	10.0	16.3	21.6	47.0	11.5	28.1
2	15.0	37.2	12.3	28.6	11.4	58.4	14.9	43.0
3	18.2	55.4	14.8	43.4	10.1	68.5	9.3	52.3
4	15.0	70.4	14.4	57.8	10.5	79.0	7.3	59.6
5	10.2	80.6	14.0	71.8	7.1	86.1	11.8	71.4
6	6.9	87.5	9.3	81.1	5.2	91.3	10.0	81.4
7	5.3	92.8	7.3	88.4	1.4	92.7	5.4	86.8
8	4.0	96.8	5.7	94.1	2.5	95.2	4.8	91.6
9	1.7	98.5	3.1	97.2	3.0	98.2	4.8	96.5
10	1.7	100.0	2.8	100.0	1.7	100.0	3.4	100.0

5) SDQ peer problems score, Spanish 3 year old

Peer problems score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 658		N = 683		N = 310		N = 315	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	39.4	39.4	40.2	40.2	41.2	41.2	39.1	39.1
1	22.1	61.5	21.4	61.6	19.7	60.9	20.4	59.5
2	19.2	80.7	16.4	78.0	20.9	81.8	14.0	73.5
3	10.5	91.2	9.5	87.5	8.2	90.0	10.0	83.5
4	5.0	96.2	6.8	94.3	3.8	93.8	10.0	93.5
5	2.0	98.2	2.2	96.5	2.5	96.3	4.0	97.5
6	1.1	99.3	2.2	98.7	2.2	98.5	0.9	98.4
7	0.8	100.0	0.4	99.2	1.5	100.0	1.4	99.8
8-10			0.7	100.0			0.2	100.0

6) SDQ prosocial behaviour score, Spanish 3 year old

Prosocial behaviour score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 658		N = 683		N = 310		N = 315	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0					0.5	0.5		
1			0.1	0.1	0.5	1.0	0.9	0.9
2	0.2	0.2	0.4	0.5	1.6	2.6	4	4.9
3	0.8	1.0	1	1.5	1.9	4.5	4.8	9.7
4	1.2	2.2	2.8	4.3	4.1	8.6	12.6	22.3
5	4.9	7.1	7.5	11.8	16.6	25.2	17.5	39.8
6	10.7	17.8	12	23.8	11.1	36.3	16.8	56.6
7	14.3	32.1	19.5	43.3	12.4	48.7	14.9	71.5
8	21.8	53.9	22.5	65.8	13.3	62.0	8.2	79.7
9	24.4	78.3	20.9	86.7	16.6	78.6	10.4	90.1
10	21.7	100.0	13.3	100.0	21.4	100.0	9.9	100.0

7) SDQ impact score, Spanish 3 year old

Impact score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 658		N = 683		N = 310		N = 315	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	91.6	91.6	89.0	89.0	87.2	87.2	77.5	77.5
1	4.1	95.7	3.5	92.5	3.6	90.8	9.0	86.5
2	2.0	97.7	2.7	95.2	5.7	96.5	6.8	93.3
3	1.1	98.8	2.0	97.2	1.6	98.1	5.1	98.4
4	0.3	99.1	1.4	98.6	0.8	98.9	1.0	99.4
5	0.5	99.6	0.3	98.9	1.1	100.0	0.2	99.6
6	0.2	99.8	0.8	99.7			0.4	100.0
7-10	0.2	100.0	0.3	100.0				

8) SDQ total difficulties score, Spanish 4 year old

Total difficulties score	Parent SDQ				Teacher SDQ			
	Females N = 297		Males N = 302		Females N = 304		Males N = 303	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	5.1	5.1	4.3	4.3	6.9	6.9	4.0	4.0
1	8.1	13.2	4.0	8.3	7.6	14.5	3.3	7.3
2	8.8	22.0	4.0	12.3	9.2	23.7	5.6	12.9
3	8.1	30.1	6.6	18.9	7.2	30.9	5.6	18.5
4	8.4	38.5	5.3	24.2	5.3	36.2	8.9	27.4
5	8.4	46.9	8.3	32.5	11.2	47.4	10.2	37.6
6	9.4	56.3	8.9	41.4	7.2	54.6	5.6	43.2
7	8.4	64.7	11.3	52.7	7.2	61.8	5.6	48.8
8	6.4	71.1	9.6	62.3	4.6	66.4	6.6	55.4
9	6.1	77.2	5.3	67.6	6.3	72.7	5.0	60.4
10	5.1	82.3	7.9	75.5	4.3	77.0	4.6	65.0
11	3.4	85.7	3.6	79.1	4.9	81.9	6.6	71.6
12	3.0	88.7	4.3	83.4	4.3	86.2	5.3	76.9
13	2.4	91.1	3.0	86.4	3.6	89.8	5.0	81.9
14	1.7	92.8	2.3	88.7	1.6	91.4	3.0	84.9
15	3.0	95.8	2.0	90.7	1.0	92.4	2.0	86.9
16	0.7	96.5	3.6	94.3	1.3	93.7	3.0	89.9
17	1.0	97.5	0.7	95	2.3	96.0	2.6	92.5
18	1.0	98.5	0.0	95	0.7	96.7	1.3	93.8
19	0.0	98.5	1.0	96	1.0	97.7	1.0	94.8
20	0.7	99.2	1.3	97.3	0.7	98.4	1.0	95.8
21	0.8	100.0	0.7	98	0.7	99.1	1.0	96.8
22			0.0	98	0.0	99.1	0.7	97.5
23			0.0	98	0.3	99.4	0.0	97.5
24			0.7	98.7	0.0	99.4	0.7	98.2
25			0.7	99.4	0.0	99.4	0.0	98.2
26			0.6	100.0	0.3	99.7	0.7	98.9
27					0.3	100.0	0.0	98.9
28							0.6	99.5
29-40							0.5	100.0

9) SDQ emotional symptoms score, Spanish 4 year olds

Emotional symptoms score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 297		N = 302		N = 304		N = 303	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	52.9	52.9	46.0	46.0	41.8	41.8	38.3	38.3
1	24.2	77.1	25.8	71.8	22.4	64.2	26.1	64.4
2	10.4	87.5	14.2	86	14.1	78.3	14.2	78.6
3	5.4	92.9	7.6	93.6	9.9	88.2	8.9	87.5
4	2.7	95.6	2.0	95.6	6.6	94.8	4.3	91.8
5	3.7	99.3	1.7	97.3	2.0	96.8	4.0	95.8
6	0.0	99.3	1.7	99.0	2.0	98.8	2.0	97.8
7	0.7	100.0	0.3	99.3	0.7	99.5	1.7	99.5
8			0.7	100.0	0.0	99.5	0.7	100.0
9-10					0.5	100.0		

10) SDQ conduct problems score, Spanish 4 year old

Conduct symptoms score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 297		N = 302		N = 304		N = 303	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	25.6	25.6	22.8	22.8	41.8	41.8	35.0	35.0
1	20.5	46.1	14.6	37.4	15.8	57.6	21.8	56.8
2	22.2	68.3	21.9	59.3	16.1	73.7	12.2	69.0
3	15.5	83.8	16.2	75.5	10.9	84.6	10.9	79.9
4	8.4	92.2	11.3	86.8	7.2	91.8	5.3	85.2
5	4.0	96.2	8.9	95.7	3.3	95.1	5.3	90.5
6	2.4	98.6	2.0	97.7	3.0	98.1	2.6	93.1
7	1.0	99.6	1.7	99.4	1.0	99.1	2.6	95.7
8	0.4	100.0	0.3	99.7	0.0	99.1	2.6	98.3
9			0.3	100.0	0.9	100.0	1.0	99.3
10							0.7	100.0

11) SDQ hyperactivity-inattention score, Spanish 4 year old

Hyperact. inattent. score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 297		N = 302		N = 304		N = 303	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	17.5	17.5	11.6	11.6	27.3	27.3	13.9	13.9
1	18.5	36.0	13.2	24.8	17.1	44.4	12.2	26.1
2	16.2	52.2	11.9	36.7	12.8	57.2	11.6	37.7
3	12.1	64.3	14.9	51.6	11.5	68.7	13.2	50.9
4	12.1	76.4	12.6	64.2	7.9	76.6	12.2	63.1
5	11.1	87.5	13.9	78.1	10.2	86.8	8.3	71.4
6	5.7	93.2	7.3	85.4	3.6	90.4	5.9	77.3
7	4.0	97.2	5.3	90.7	3.6	94.0	5.3	82.6
8	1.0	98.2	3.6	94.3	2.6	96.6	5.6	88.2
9	1.4	99.6	3.0	97.3	1.3	97.9	5.9	94.1
10	0.4	100.0	2.7	100.0	2.1	100.0	5.9	100.0

12) SDQ peer problems score, Spanish 4 year old

Peer problems score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 297		N = 302		N = 304		N = 303	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	55.6	55.6	51.7	51.7	42.1	42.1	42.6	42.6
1	20.2	75.8	24.2	75.9	23.0	65.1	21.8	64.4
2	12.1	87.9	11.9	87.8	14.1	79.2	19.8	84.2
3	7.7	95.6	5.3	93.1	11.2	90.4	5.9	90.1
4	2.4	98	3	96.1	5.3	95.7	4.0	94.1
5	0.7	98.7	1.7	97.8	2.6	98.3	2.6	96.7
6	0.7	99.4	1	98.8	1.3	99.6	2.0	98.6
7	0.6	100.0	0.7	99.5	0.3	100.0	1.0	99.6
8-10			0.5	100.0			0.4	100.0

13) SDQ prosocial behaviour score, Spanish 4 year old

Prosocial behaviour score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 297		N = 302		N = 304		N = 303	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0							1.3	1.3
1	0.3	0.3					1.3	2.6
2	0.3	0.6	0.7	0.7	1.0	1.0	2.0	4.6
3	0.0	0.6	0.7	1.4	3.0	4.0	5.0	9.6
4	0.7	1.3	1.7	3.1	3.6	7.6	9.9	19.5
5	3.4	4.7	5.6	8.7	8.6	16.2	15.8	35.3
6	6.4	11.1	10.9	19.6	12.8	29.0	16.2	51.5
7	12.8	23.9	15.9	35.5	17.8	46.8	12.5	64.0
8	16.2	40.1	20.9	56.4	12.5	59.3	12.5	76.5
9	26.6	66.7	24.2	80.6	14.8	74.1	13.5	90.0
10	33.3	100.0	19.4	100.0	25.9	100.0	10.0	100.0

14) SDQ impact score, Spanish 4 year old

Impact score	Parent SDQ				Teacher SDQ			
	Females		Males		Females		Males	
	N = 297		N = 302		N = 304		N = 303	
	%	Cumul. %	%	Cumul. %	%	Cumul. %	%	Cumul. %
0	90.9	90.9	81.7	81.7	83.6	83.6	71.0	71.0
1	4.4	95.3	8.3	90.0	8.9	92.5	11.6	82.6
2	2.4	97.7	5.3	95.3	5.6	98.1	10.9	93.5
3	1.0	98.7	1.3	96.6	1.0	99.1	3.0	96.4
4	0.7	99.4	2.0	98.6	0.9	100.0	2.0	98.4
5	0.3	99.7	1.1	99.7			1.0	99.3
6	0.0	99.7	0.3	100.0			0.7	100.0
7-10	0.3	100.0						