

**Table S1. List of excluded diagnoses.**

Central neurological disorder	Cerebral palsy
Skeletal dysfunctions	Arthrogryposis Extreme skeletal problems
Peripheral neurological disorders	Obstetric Brachial Plexus Lesion
Specific syndromes	Aarskog syndrome Angelman syndrome Beals syndrome Charge syndrome Down syndrome Fragile X syndrome Goldenhar syndrome Gorlin syndrome Joubert syndrome Klinefelter syndrome Moebius syndrome Poland syndrome Prader-Willi syndrome Williams- Beuren syndrome
Neuromuscular diseases	Muscular dystrophy (Becker muscular dystrophy, Duchenne, Strümpell-lorrain disease) Myopathy
Spinal cord abnormalities	Chiari malformation Meningomyelocele Spina bifida

**Table S2. Frequency of movement-quality descriptions in the different age groups**

Age group	0-6mo	6-12mo	12-18mo	18mo-3y
Number of children	223	221	111	449
<b>Hypotonia</b>				
General Hypotonia	27	74	49	135
Mild hypotonia	30	43	21	82
Severe hypotonia	0	1	4	2
Proximal Hypotonia	72	87	28	84
Distal Hypotonia	10	11	6	13
Hypotonia face	3	2	5	24
Problems moving against gravity	10	4	0	0
<b>Hypertonia</b>				
General hypertonia	126	59	18	41
Mild hypertonia	36	11	1	13
Severe hypertonia	1	0	0	0
Proximal hypertonia	10	5	3	1
Distal hypertonia	94	57	12	59
<b>Laxity</b>				
General laxity	6	50	35	127
Laxity lower limbs	26	54	33	100
Laxity upper limbs	0	1	3	9
<b>Poor muscle force</b>				
General force problem	4	3	4	18
Force problems lower limbs	0	0	2	1
Force problems upper limbs	1	0	1	1
Force problems of the abdominal muscles	14	0	0	7
<b>Asymmetry</b>				
General asymmetry	33	14	9	11
Asymmetry lower limbs	32	22	7	29
Asymmetry upper limbs	32	12	3	4
Asymmetry of the head	90	11	5	9
Asymmetry of the trunk	2	4	0	0
Plagiocephaly	36	17	6	8
<b>Poor motor control</b>				
General control problems	23	19	3	12
Problems with trunc control	47	32	10	17
Problems with head control	36	6	0	0
<b>Poor motor regulation</b>				
Problems with Gradation of movements	4	21	9	13

Overshooting	1	1	1	1
Tone regulation problems	20	19	4	13
<b>Poor motor organization</b>				
Problems with postural changes	4	50	8	15
Problems of movement organization on the midline	38	2	0	0
Problems in organizing movements	24	8	2	15
Problems in organizing weight shift	8	23	6	12
Chaotic movements	8	4	0	0
<b>Poor motor coordination</b>				
Mild coordination problems	1	0	1	27
Moderate coordination problems	0	1	0	1
General coordination problems	11	16	6	91
Stiff movements	12	16	12	115
Clumsy movements	0	0	0	3
Awkward movements	0	0	0	2
Jerky	0	0	0	2
Shaky movements	6	1	0	1
Disturbed coordination	0	0	1	2
Disturbed mimmanual coordination	0	1	0	34
Use of dystonic like movements	6	5	1	1
Use of diskenetic like movement	0	1	0	1
Disturbed diadochokinesis	0	0	0	4
<b>Poor balance</b>				
Mild Balance Problems	0	0	2	27
Moderate balance problems	0	0	0	0
Severe balance problems	0	1	0	1
Wider base of support	0	0	12	58
Atactic like movements	0	2	1	5
Drunken appearing gait	0	0	0	1
Stumbling	0	5	7	40
Poor balance reactions	0	5	2	6
Poor balance	0	5	5	75
Slower supporting reactions	0	5	0	2
Slower balance reactions	0	1	1	0
<b>Soft signs</b>				
Tremor	7	9	7	28
Dysmetria	0	2	1	8
Clonus	3	1	1	4
Overflow upper limbs	1	0	0	0
<b>Poor motor dissociation</b>				
Stereotyped movements	7	4	0	4

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Less dissociated movements	3	2	0	0
Less selectivity	8	5	0	2
Dissociating problems	21	33	11	12
<b>Poor motor planning</b>				
Global planning problems	0	0	1	16
Action planning problems	0	3	0	18
Poor motor planning	0	1	3	18