Instrument	Abbreviation	Way of operationalizing	ICF domains covered
1. Unidimensional Instruments: frequ	ency		
1.1 The Keel Assessment of	KAP	11 items.	5 domains:
Participation (112)		Frequency : e.g. of an item: During the past 4 weeks, I have moved around in my home, as and when I have wanted.	d4, d6, d7, d8, d9
		5-point scale: all of the time, most of the time, some of the time, little of the time, none of the time.	
1.2 Participation, patient-reported outcome (113)	PAR-PRO	20 items.	5 domains: d4, d6, d7, d8, d9
		Frequency: e.g. of an item: Work/employment.	
		5-point scale: Did not participate in this life situation, participated monthly (once every 3–4 weeks), participated bi-weekly (once every 2 weeks), participated weekly (1–4 days per week), participated daily/ almost every day (5 or more days per week)	
2 Unidimensional Instruments: lin	nitations		
2.1 Participation Scale (85)	P-Scale	18 items.	8 domains:
		Limitations: e.g. of an item: helping other people.	d1, d3, d4, d5, d6, d7, d8, d9
		5-point scale: no restriction, some restriction but no problem, small problem, medium problem, large problem.	
2.2 ICF measure of Participation and	IMPACT-S	33 items.	4 domains for participation:
Activities Questionnaire – screener part (26)		Participation Restrictions: e.g. of an item: basic economic transactions.	d6, d7, d8, d9
		3-point scale: no restrictions, minor restrictions, major restrictions	
		Remark: next to participation also activities are operationalized in this instrument	
		Activity Limitations: e.g. of an item: communicating, receiving.	5 domains for activities:
		3-point scale: no limitations, minor limitations, major limitations	d1, d2, d3, d4, d5
2.3 Oxford Participation and Activities Questionnaire (114)	Ox-PAQ	23 items.	Theoretically based on ICF, but not on the 9 domains (the following domains are given: routine activities,
Activities Questionnaire (114)		Difficulties : e.g. of an item: how often during the past four weeks you had difficulties with getting up in the morning?	emotional well-being and social engagement).
		5-point scale: never, rarely, sometimes, often, always	
2.3 Child and Adolescent Scale of Participation (45, 122)	CASP	20 items.	Theoretically based on ICF, but not on the 9 domains.
		Limitations: e.g. of an item: Compared to other children your child's age, what is your child's current level of participation in household activities?	
		4-point scale: as expected for age, somewhat limited, very limited, unable (at home, in school and in neighborhood/community in comparison with peers)	
3 Multidimensional instruments: mult	, ,		The survive line has a day totol (17) (The following
3.1 Impact on Participation and Autonomy Questionnaire (35, 115,	IPA	41 items – 2 dimensions.	Theoretically based on ICIDH-2 (17). (The following domains are given: autonomy indoors, family role, autonomy outdoors, social life and relationships, work and education)
139)		Autonomy: e.g. of an item: My chances of contributing to looking after my home the way I want to are:	
		5-point scale: very good, good, fair, poor, very poor	
		Limitations: e.g. of an item: If your health or your disability affect your activities in and around your home, to what extent does this cause you problems?	
		3-point scale: no problems, minor problems, major problems	The endine like here along TOT, but not along an oblight
 Participation Enfranchisement (116) 	PE	19 items – 3 dimensions.	Theoretically based on ICF, but not clear on which domains (the following domains are given: productivity social participation, being out and about in the community)
(110)		Choice and control , e.g. of an item: <i>I have choices about the activities I want to do.</i>	
		4-point scale: true, mostly true, mostly false, false.	
		Contribution to the community , e.g. of an item: <i>I do things that improve my community</i> . 4-point scale: true, mostly true, mostly false, false.	
		Valued by others, e.g. of an item: I feel valued as a member of the society:	
		4-point scale: true, mostly true, mostly false, false.	
3.3 Rating of Perceived Participation	ROPP	16 items – 3 dimensions.	Originally based on the ICIDH-2, including 7 domains; d3, d4, d5, d6, d8 and d9 but blended in other subdomains.
(117)		Restrictions in performing activities, e.g. of an item: involvement in cultural, political and spiritual activities.	
		5-point scale: not restricted, mildly restricted, moderately restricted, very restricted, severely restricted.	
		Satisfaction with my level of participation (same item).	
		2-point scale: yes, no.	
		Change : I want support to change my level of participation (same item).	
		2-point scale: yes, no.	

Table I. Overview of participation instruments, abbreviations, way of operationalizing and domains of the International Classification of Functioning, Disability and Health (ICF)

Table I cont

Instrument	Abbreviation	Way of operationalizing	ICF domains covered
3.4 Time Organization and Participation Scale (110)	TOPS	32 items – 3 dimensions.	Theoretically based on ICF, but not on the 9 domains
		Task performance in an appropriate pace, e.g. of an item: fulfilling varied roles.	<i>(</i>
		5-point scale: never, rarely, sometimes, usually, always.	
		Performance in time organization of activities (same item).	
		5-point scale: ranging from 1 very bad to 5 excellent	
		Emotional responses as a result of lack of success at the expected pace (same item).	
		7 answer options: lack of motivation to perform, sadness, frustration, anger, crying, outburst towards family members, and outburst towards friends.	
		2 open items: difficulty in organizing daily activities and distraction to perform activities.	
4 Multidimensional instruments: com	bining objective	and subjective dimensions	
4.1. Participation Measure for Post-	PM-PAC	52 items – 3 objective dimensions 2 subjective dimensions.	Initially constructed on the ICIDH-2 but revised to
Acute Care (119)		Duration, e.g. of an item: During the past week, how much of the time: have you accomplished less than	correspond with the ICF, 8 domains:
		you would like?'	
		5-point scale: all of the time, most of the time, some of the time, a little of the time, none of the time.	
		Frequency , e.g. of an item: <i>How many times in the past week have you done things socially with other people?</i> Different according to the item:	
		5-point scales: none, once, twice, three times, more than three times	
		Remark: depending on the item, another 5-point scale is used: Every day, 5-6 days, 3-4 days, 1-2 days, never.	
		Number of family and friends and close contacts, e.g. of an item: How many close friends do you have?	
		5-point scale: none, one, two to four, five to eight, nine or more.	
		Limitation, e.g. of an item: How much are you currently limited in getting around offices, stores or public buildings?	
		5-point scale: not at all, a little, some, quite a lot, completely	
		Remark: depending on the item, another 5-point scale is used: Not at all limited, a little limited, somewhat limited, very much limited, extremely limited.	
		Satisfaction, e.g. of an item: How satisfied are you with how much you can help family and friends?	
		5-point scale: very satisfied, somewhat satisfied, neither satisfied or dissatisfied, somewhat satisfied, very dissatisfied.	
		In addition; the following descriptive questions are asked: the current category of employment, current enrolment in an educational program and the effect of the disability on social economic status.	
4.2. Participation Objective, Participation Subjective (111)	POPS	26 items: 2 objective and 2 subjective dimensions.	5 domains:
		Frequency, e.g. of an item: In a typical week, do you do 'answer option' of the shopping for groceries in your household?	d4, d6, d7, d8, d9
		4-answer options: all, most, some, none	
		Duration , e.g. of an item: How many hours in a typical day do you 'the activity' (e.g. of an item: work for pay)?	
		No answer options, number of hours is asked for.	
		Importance, e.g. of an item: how important is this 'activity' to your wellbeing	
		7-point scale: most, very, moderate, little, not, not applicable, don't know.	
		Desired activity level , e.g. of an item: <i>would you like to be doing 'this activity' more or less than you are doing now?</i>	
		5-point scale: more, less, same, not applicable, don't know.	

Table I cont

Instrument	Abbreviation	Way of operationalizing	ICF domains covered
4.3 Participation Survey/Mobility	PARTS/M	20 items – 1 objective and 5 subjective dimensions:	6 domains:
123)		Duration, e.g. of an item: How much time do you require for working inside your home?	d4, d5, d6, d7, d8, d9
		3-point scale: more than 20 minutes, 10 to 20 minutes, less than 10 minutes	
		Remark, depending on the item, another 3-point scale is used: more than 60 minutes, 30 to 60 minutes, less than 30 minutes.	
		Or Frequency, e.g. of an item: How frequently do you participate in outdoor maintenance activities:	
		Remark: only duration or frequency is asked, not both	
		4-point scale: 5 or more times a week, 3 to 4 times a week, 1 or two times a week, never.	
		Remark: depending on the item, a 5-point scale is used: 3 or more times a day, once or twice a week, once or twice a day, once or twice a month, never.	
		Choice, e.g. of an item: To leave you house, how much choice do you have compared to others:	
		4-point scale: a lot of choice, some choice, little choice, no choice.	
		Satisfaction, e.g. of an item: How satisfied are you with your participation in leisure activities?	
		4-point scale: very satisfied, satisfied, somewhat satisfied, dissatisfied.	
		Help form others, e.g. of an item: How much help from another person do you require for take a vacation?	
		4-point scale: a great deal, a moderate amount, just a little, none.	
		The use of accommodations, adaptations or special equipment, e.g. of an item: How often do you use accommodations, adaptations, or special equipment to socialize?	
		5-point scale: all of the time, most of the time, some of the time, a little of the time, never.	
		In addition; the reason of limitation is asked for each item.	
		5 option answer scale: Illness, A physical impairment, Pain, Fatigue, Not limited.	
Children's Assessment of	CAPE	55 items – 4 objective dimensions and 1 subjective dimension:	Theoretically based on ICF, but not on the 9 doma
ticipation & Enjoyment (125)		Diversity, e.g. of an item: Have you done active physical recreation activities in the past four months?.	
		Answer option: yes, no	
		Frequency, If yes: How often?	
		7-point scale:1 time in the past 4 months, 2 times in the past four months, 1 time a month, 2–3 times a month, 1 time a week, 2–3 times a week, 1 time a day or more.	
		With whom do you do this most often?	
		5 answer options: alone, with family, with other relatives, with friends, with others.	
		Where do you do this most often?	
		6 answer options: at home, at a relative's home, in your neighborhood, at school, in your community, beyond the community	
		Enjoyment: How much do you enjoy this activity?	
		6-point scale: not at all, somewhat; sort of, pretty much, very much, love it.	
Participation and Environment	PEM-CY	25 items, 1 objective and 3 subjective dimensions	Theoretically based on ICF, but not on the 9 domain
asure for Children and Youth 1)		Remark: the scale is divided in items depending on the context of the activity: home, school, community	
		Frequency , e.g. of an item: <i>How often does your child participate in 1 or more computer video games:</i>	
		8-point scale: daily, few times a week, once a week, few times a month, once a month, few times in last four months, once in the last four months, never.	
		Involvement in activities, e.g. of an item: How involved is your child when doing these activities?	
		5-point scale: Ranging from minimally, over somewhat involved to very involved (in-between point not given).	
		Expected change in number and type of activities : e.g. of an item: <i>Would you like your child's participation to change in this type of activity?</i> yes or no, along with 5 answer options to clarify the desire:	
		5 Answer options: No change desired, yes; Do more often, yes; Do less often, yes; To be more involved, yes; To be less involved, yes; Be involved in a broader variety of activities	
		The amount of environmental support:	
		e.g. of an item: <i>Do things help or make it harder for the child to participate;</i> 4 answer options: Not an issue, usually helps, sometimes helps/sometimes makes harder, usually makes it harder.	
		Does the child need help; 4 answer options: not needed, usually yes, sometimes yes/sometimes no, usually no.	

Table I *cont*

Instrument	Abbreviation	Way of operationalizing	ICF domains covered
4.6 Utrecht Scale for Evaluation of Rehabilitation-Participation (120)	USER-P	32 items, 1 objective and 2 subjective dimensions:	4 domains of the ICF:
		Frequency A, e.g. of an item: how many hours per week or how often do you usually spend on the following education)?	r d4, d5, d6, d9
		6-point scale: none at all, 1–8 hours, 9–16 hours, 17–254 hours, 25–35 hours, 36 hours or more.	
		Frequency B, e.g. of an item: How often have you undertaken sports or other physical exercise in the last 4 weeks?	
		6-point scale: never, 1-2 times, 3-5 times, 6-10 times, 11-18 times, 19 times or more.	
		Limitations, e.g. of an item: does your illness or condition currently limit you daily live (e.g. going out)?	
		5-point scale: not applicable, not possible, with assistance, with difficulty, without difficulty.	
		Satisfaction, e.g. of an item: How satisfied are you with your current daily life? (e.g. household activities):	
		5-point scale: very satisfied, dissatisfied, neutral satisfied, very satisfied, not applicable.	
4.7 Participation Measure – 3	PM-3D4D	19 items, 2 objective dimensions, 2 subjective dimensions:	Theoretically based on the ICF but not on the domains
domains, 4 dimensions (117)		Diversity, e.g. of an item: did you go to movies, concerts, shows, sports events, lectures, or exhibits?	(based on Chan & Coster (140) in which the 9 domai of the ICF are blended into Productivity, Social, and Community domains)
		2 answer options: yes, no	
		Frequency, if yes how often? Different multi-point scales depending on the item:	
		For productivity items: Less than once a month, 1–3 days a month, once a week, 2–4 days a week, 5 or more days a week.	
		For social and community items: Never in the past 3 months, once or twice in past 3 months, once a month, 2-3 times a month, once a week, 2-4 times a week, every day or almost every day?	
		Desire for change, Would you like to change your current participation in this activity?	
		2 answer options: yes, no.	
		Perceived difficulty, what was the level of difficulty in participating in this type of activity?	
		4-point scale: very difficult, moderately difficult, a little difficult, not difficult at all.	
4.8 Ghent Participation Scale (71,	GPS	19 items, 2 objective dimensions, 3 subjective dimensions:	All domains of the ICF
72)		Remark: the scale starts by asking 2 questions:	d1,d2,d3,d4,d5,d6,d7,d8,d9
		What are the5 most important activities that you have performed during the last week and	
		What are the 5 most important activities that you have delegated during the last week	
		The scale builds further on these 10 activities (5 self-performed and 5 delegated activities).	
		Duration, How much time did you spent in these 5 self-performed activities?	
		5-point scale: maximum 1 hour, more than 1 hour and less than half a day, half a day, a full day, more than 1 day.	
		The need to delegate activities: How many of the 5 delegated activities you would rather have performed yourself?	
		No answer options.	
		Self-performed activities in accordance with choices and wishes, e.g. of an item: It was entirely my choice to engage in this activity.	
		5-point scale: I totally disagree, I disagree, I doubt, I agree, I totally agree	
		Self-performed activities leading to appreciation and social acceptance, e.g. of an item: I felt a strong appreciation during this activity.	
		5-point scale: I totally disagree, I disagree, I doubt, I agree, I totally agree	
		Delegated activities, e.g. of an item: I completely trust the person(s) who performed this activity for me.	
		5-point scale: I totally disagree, I disagree, I doubt, I agree, I totally agree	

ICF domains: d1=learning and applying knowledge; d2=general tasks and demands; d3=communication; d4=mobility; d5=self-care; d6=domestic life; d7=interpersonal interactions and relationships; d8=major life areas; d9=community, social and civic life.