

SCOPING REVIEW – S1 FIGURE  
RECODING OF COGNITIVE DOMAINS AND  
INSTRUMENTS

## Domain cleaning according to the ICF (code extract)

```
x[x=='Cognition' |  
  x=='Cognitive' |  
  x=='Cognitive Abilities' |  
  x=='Cognitive Ability' |  
  x=='Cognitive Decline' |  
  x=='Cognitive Disability' |  
  x=='Cognitive Disorders' |  
  x=='Cognitive Dysfunction' |  
  x=='Cognitive Function' |  
  x=='Cognitive Functioning' |  
  x=='Cognitive Functions' |  
  x=='Cognitive Impact Resulting from Stroke' |  
  x=='Cognitive Impairment' |  
  x=='Cognitive Mental Status' |  
  x=='Cognitive Performance' |  
  x=='Cognitive State' |  
  x=='Cognitive Status' |  
  x=='Degree of Cognitive Abilities' |  
  x=='General Cognition' |  
  x=='General Cognitive Function' |  
  x=='General Cognitive Functioning' |  
  x=='General Cognitive Functions' |  
  x=='Global Cognition' |  
  x=='Global Cognitive Assessment' |  
  x=='Global Cognitive Function' |  
  x=='Global Cognitive Functioning' |  
  x=='Global Cognitive Functions' |  
  x=='Global Cognitive Impairment' |  
  x=='Global Cognitive Performance' |  
  x=='Global Cognitive Status' |  
  x=='Mental Status' |  
  x=='Mild Cognitive Impairment' |  
  x=='Moderate Cognitive Dysfunction' |  
  x=='Neuropsychological Functions' |  
  x=='Neuropsychological Impairment' |  
  x=='Premorbid Cognitive Function' |  
  x=='Premorbid Cognitive Impairment' |  
  x=='Recovery of Cognition' |  
  x=='Cognitive Changes-State of Higher Mental Functions' |  
  x=='General Cognition-Higher Cerebral Functions' |  
  x=="Cognitive Impairment" |  
  x=="Cognitive Screening"  
  ]="Global (ICF-ch1)"
```

Raw Domains

"ICF"  
Domain

```
x[x=='Alertness' |  
  x=='Intrinsic Alertness' |  
  x=='Vigilance'  
]= 'Consciousness (b110)'
```

```
x[x=='Orientation' |  
  x=='Orientation to Time & Space' |  
  x=='Temporal Orientation'  
]= 'Orientation (b114)'
```

```
x[x=='Constructing' |  
  x=='Construction' |  
  x=='Construction Skills' |  
  x=='Constructional' |  
  x=='Constructional Function' |  
  x=='Constructional Praxis' |  
  x=='Constructive Praxis' |  
  x=='Visuospatial Construction' |  
  x=='Visuoconstruction' |  
  x=='Visuoconstructive Ability' |  
  x=='Visuoconstructive Functions'  
]= "HLCF (b164)"
```

```
x[x=='Neurologic Function' |  
  x=='Neurological Function'  
]= "Neurologic Function (ICF-ch7)"
```

```
x[x=='Dementia' |  
  x=='Dementia Diagnosis' |  
  x=='Dementia Diagnostic Instrument' |  
  x=='General Inteligence' |  
  x=='General Intellectual Functioning' |  
  x=='General Intelligence' |  
  x=='Intellectual Abilities' |  
  x=='Intellectual Ability' |  
  x=='Pre-Morbid Intellectual Functioning'  
]= 'Intellectual (b117)'
```

```
x[x=='Social Acuity' |  
  x=='Social Cognition' |  
  x=='Social Interaction'  
]= 'Global Psychosocial (b122)'
```

```
x[x=='Alternating Attention' |  
  x=='Attention' |  
  x=='EF - Attention' |  
  x=='Attention-Phasic Alert' |  
  x=='Attentional Tasks' |  
  x=='Attentiveness'
```

```
x=='Concentration' |
x=='Divided' |
x=='Divided Attention' |
x=='EF - Divided Attention' |
x=='EF - Attention Switching' |
x=='Focused Visual Attention' |
x=='General Visual Attention' |
x=='Phasic Attention' |
x=='Selective' |
x=='Selective Attention' |
x=='Spatial Attention' |
x=='Sustained' |
x=='Sustained Attention' |
x=='Switching of Attention' |
x=='Shifting' |
x=='Visual Selective Attention' |
x=='Tonic Attention'
]='Attention (b140)'
```

```
x[x=='Auditory Memory' |
x=='Delayed Memory' |
x=='EF - Delayed Recall' |
x=='Delayed Word Recall' |
x=='DR' |
x=='Episodic Memory' |
x=='Episodic Verbal Memory' |
x=='Everyday Memory Problems' |
x=='General Long-Term Memory' |
x=='Immediate Memory' |
x=='Immediate Recall' |
x=='IR' |
x=="List Learning" |
x=='Long Term Memory' |
x=='Long-Term Memory' |
x=='EF - Long-Term Memory' |
x=='Long-Term Verbal Memory' |
x=='Memory' |
x=="Memory Post-Interference" |
x=='Memory - Short Term' |
x=='Memory Registration' |
x=='Memory Self-Efficacy' |
x=='Memory-Long Term' |
x=='Memory-Long-Term Memory' |
x=='Memory-Short Term' |
x=='Memory-Short-Term Verbal' |
x=='Non-Verbal Visual Memory' |
x=='Nonverbal Memory' |
x=='Recall' |
x=='Recall over Time' |
x=='Short-Term Memory' |
```

```
x=='Short-Term Memory Recall'|
x=='Short-Term Verbal Memory'|
x=='Verbal'|
x=='Verbal Declarative Memory'|
x=='Verbal Memory'|
x=='Verbal Short Term Memory'|
x=='Verbal Working Memory'|
x=='Visual Memory'|
x=='Visual Memory [nonverbal]'|
x=='Visual Memory [or Visuospatial Functions]'|
x=='Visual Memory Functions'|
x=='Visuospatial Memory'|
x=='Visuospatial Working Memory'|
x=='Word Memory'|
x=='Working Memory'|
x=='EF - Working Memory'|
x=='Recall over Time'
]="Memory (b144)"
```

```
x[x=='Adjustment to Presentation Speed'|
x=='Attention [psychomotor Speed]'|
x=='EF - Psychomotor Performance'|
x=='EF - Speed'|
x=='Hit Reaction Time'|
x=='Motor Speed'|
x=='Praxis-Gnosis'|
x=='Psychomotor Speed'|
x=='Reaction Speed'|
x=='Reaction Time'|
x=='Speed'
]='Psychomotor (b147)'
```

```
x[x=='Gestual Praxis'|
x=="Ideational"|
x=='Praxia'|
x=='Praxis'|
x=='Planning Visuospatial Abilities'|
x=='Visual Movement Organization'|
x=='Visuo-Motor Coordination'|
x=='Visuomotor Coordination'|
x=='EF - Visuomotor Scanning'|
x=='Visuomotor Speed'
]='Complex mov. seq. (b176)'
```

```
x[x=='Gnosia'|
x=="Functional Neglect"|
x=='Higher Level Perception'|
x=='Higher Visual Perception'|
x=='Optical-Spatial Gnosis'|
```

```
x=='Perception' |
x=='Perceptual Functions' |
x=='Spatial Neglect Severity' |
x=='Spatial Perception' |
x=='Spatial Skills' |
x=='Unilateral Visual Neglect' |
x=='Unilateral Visuospatial Neglect' |
x=='Visual Inattention' |
x=='Visual Neglect' |
x=='Visual Perception' |
x=='Visual Scanning' |
x=='Visual Scanning Patterns' |
x=='Attention Omission' |
x=='Scanning' |
x=='Signal Detection' |
x=='Visual-Spatial' |
x=='Visuo-Perceptual' |
x=='Visuospatial' |
x=='Visuospatial Abilities' |
x=='Visuospatial Ability' |
x=='Visuospatial Scanning' |
x=='Visuospatial Cognition' |
x=='Visuospatial Function' |
x=='Visuospatial Functions' |
x=='Visuospatial Perception' |
x=='Visual Search']='Perceptual (b156)'
```

```
x[x=='Field of Vision' |
x=='Visual Fields']='Visual Field (b2101)'
```

```
x[x=='Conceptual Thinking' |
x=='Mental Control' |
x=='Perseveration' |
x=='Thought Operation']='Thought (b160)'
```

```
x[x=='Abstract Reasoning' |
x=='Abstraction' |
x=='Cognitive Flexibility' |
x=='Concept Formation' |
x=='Conceptualization' |
x=='Conflict Resolution' |
x=='EF - Cognitive Flexibility' |
x=='EF - Completion' |
x=='EF' |
x=='EF - Information Seeking' |
x=='EF - Inhibition' |
x=='EF - Initiation' |
x=='EF - Mental Flexibility' |
x=='EF - Judgment' |
```

```
x=='EF - Planning'|
x=='EF - Problem Solving'|
x=='EF - Response Inhibition'|
x=='EF - Set Shifting'|
x=='Executive'|
x=='Executive Functioning'|
x=='Executive Functions'|
x=='Executive Reasoning'|
x=='Flexibility'|
x=='Frontal Lobe Functions'|
x=='Information Processing'|
x=='Information Processing Speed'|
x=='Initiation'|
x=="Inhibition"|
x=='Letter Sequencing'|
x=='Logical Deductive Ability'|
x=='Mental Flexibility'|
x=="Mental Tracking"|
x=='Mental Slowness in Relation to Daily Activities'|
x=='Number-Letter Switching'|
x=='Number Sequencing'|
x=='Nonverbal Reasoning'|
x=='Performance in Time Pressure Situations'|
x=='Problem-Solving'|
x=='Processing Speed'|
x=='Processing Skills'|
x=='Reasoning'|
x=='Response Inhibition'|
x=='Sequencing'|
x=='Speed Processing'|
x=='Time to Find Increasing Numbers'|
x=='Self-Monitoring of Non-Motor Performance'|
x=='Set Shifting']='HLCF (b164)'
```

```
x[x=='Aphasia'|
x=='Auditory Comprehension'|
x=='Category'|
x=='Cognitive Communicative Skills'|
x=='Communication'|
x=="Communication in Daily Life Situations"|
x=='Comprehension'|
x=='EF - Verbal Fluency'|
x=='Expression'|
x=='Language'|
x=='Language - Object Naming from Line Drawing'|
x=='Language [judged by Neuropsychologist]'|
x=='Language Abilities'|
x=='Language Abilities - Speech Fluency'|
x=='Language Ability'|
x=='Language-Auditory Comprehension']
```

```

x=='Language Comprehension'|
x=='Language-Confrontation Naming'|
x=='Language Impairment'|
x=='Language-Phonemic Verbal Fluency'|
x=='Language-Picture Naming'|
x=='Language-Reading Capacity'|
x=='Language-Sentence Comprehension'|
x=='Information Content in Spontaneous Speech'|
x=='Verbal'|
x=='Verbal Ability'|
x=='Verbal Comprehension of Complex Material'|
x=='Verbal Expression'|
x=='Verbal Fluency'|
x=='Verbal Function'|
x=='Verbal Processing'|
x=="Verbal Comprehension"|
x=='Letter Fluency Tasks'|
x=='Lexical Fluency'|
x=='Phonological Fluency'|
x=='Semantic Fluency'|
x=='Narrative Speech'|
x=='Naming'|
x=='Naming Skills'|
x=='Word Finding'|
x=='Word Reading'|
x=='Word Generation'|
x=='Word Naming'|
x=='Written Comprehension']="Language (b167)" # Language functions

```

*under the ICF Look at the expression and reception of Language. In the literature included language tests are mostly looking at higher-level cognition because of the incorporation of different rules in addition to the language task*

```

x[x=='Awareness of Visuospatial Neglect'|
x=='Neglect'|
x=='Personal Neglect'|
x=='Spatial Neglect Severity'|
x=='Unilateral Neglect'|
x=='Unilateral Visual Neglect'|
x=='Unilateral Visuospatial Neglect'|
x=='Visual Neglect'|
x=='Visuospatial Neglect'|
x=='Extinction'|
x=='Sensory']="Exp. of self & time (b180)"

```

```

x[x=='Arithmetic'|
x=='Calculation']="Calculation (b172)"

```

```

x[x=='Alertness'|
x=='Intrinsic Alertness'|

```



```
x=='Vigilance']='Consciousness (b110)'
```

*# Cognitive functions that could not be allocated to any cognitive ICF category below*

```
x[x=='[no Area]']='[Not Reported]'
```

```
x[x=='Commission Errors' |  
  x=='Commissions [number of Times Person Responds to a Non-Target  
Item]']='Error Commission'
```

```
x[x=='Omissions' |  
  x=='Item Omissions']='Omission'
```

```
x[x=='Behavior' |  
  x=='Behavioral Change' |  
  x=='Behavioral Improvement']="Behavior"
```

```
x[x=="Motor Functions" |  
  x=="Motor Skills"]="Movement Functions (b750-b789)"
```

```
x[x=='Learning' |  
  x=='New Learning' |  
  x=='EF - Learning' |  
  x=='Verbal Learning']='Basic learning (d130-159)'
```

```
x[x=='Premotor Functions' |  
  x=='Premotor Abilities']='Premotor Function'
```

```
x[x=='Function' |  
  x=='Functional Status' |  
  x=='Disability' |  
  x=='Degree of Disability' |  
  x=='Impairment' |  
  x=='Extent of Disability']='Functional status'
```

## Cognitive domains - recoding into broader semantic categories (code extract)

```
x[x=="Executive" |  
  x=="Executive Functioning" |  
  x=="Executive Functions" |  
  x=="Executive Functions" |  
  x=="Executive Reasoning"]="Executive Function"
```

```
x[x=='Alternating Attention' |  
  x=='Attention' |  
  x=='Attention [psychomotor Speed]' |  
  x=='Attention Omission' |  
  x=='Attention-Phasic Alert' |  
  x=='Attentional Tasks' |  
  x=='Attentiveness' |  
  x=='Divided Attention' |  
  x=='Focused Visual Attention' |  
  x=='General Visual Attention' |  
  x=='Phasic Attention' |  
  x=='Selective Attention' |  
  x=='Sustained Attention' |  
  x=='Switching of Attention' |  
  x=='Tonic Attention' |  
  x=='Visual Inattention' |  
  x=='Sustained' |  
  x=='Selective' |  
  x=='Divided' |  
  x=="Spatial Attention" |  
  x=='Visual Selective Attention']="Attention"
```

```
x[x=='Behavior' |  
  x=='Behavioral Change' |  
  x=='Behavioral Improvement']="Behavior"
```

```
x[x=='Constructing' |  
  x=='Construction' |  
  x=='Construction Skills' |  
  x=='Constructional' |  
  x=='Constructional Function' |  
  x=='Constructional Praxis' |  
  x=='Constructive Praxis' |
```

```
x=='Visuospatial Construction' |  
x=='Visuoconstruction' |  
x=='Visuoconstructive Ability' |  
x=='Visuoconstuctive Functions']="Construction skills"
```

```
x[x=='Concept Formation' |  
x=='Conceptual Thinking']=  
'Conceptualization'
```

```
x[x=='Dementia' |  
x=='Dementia Diagnosis' |  
x=='Dementia Diagnostic Instrument']="Dementia"
```

```
x[x=='EF - Attention' |  
x=='EF - Cognitive Flexibility' |  
x=='EF - Completion' |  
x=='EF - Delayed Recall' |  
x=='EF - Divided Attention' |  
x=='EF' |  
x=='EF - Attention Switching' |  
x=='EF - Information Seeking' |  
x=='EF - Inhibition' |  
x=='EF - Initiation' |  
x=='EF - Learning' |  
x=='EF - Mental Flexibility' |  
x=='EF - Psychomotor Performance' |  
x=='EF - Response Inhibition' |  
x=='EF - Speed' |  
x=='EF - Verbal Fluency' |  
x=='EF - Visuomotor Scanning' |  
x=='EF - Judgment' |  
x=='EF - Long-Term Memory' |  
x=='EF - Planning' |  
x=='EF - Problem Solving' |  
x=='EF - Set Shifting' |  
x=='EF - Working Memory' |  
x=="State of Higher Mental Functions" |  
x=='Higher Cerebral Functions']="Executive Function"
```

```
x[x=='Cognition' |  
x=='Cognitive' |  
x=='Cognitive Abilities' |  
x=='Cognitive Ability' |  
x=='Cognitive Decline' |  
x=='Cognitive Disability' |  
x=='Cognitive Disorders' |  
x=='Cognitive Dysfunction' |  
x=='Cognitive Function' |
```

```
x=='Cognitive Functioning'|
x=='Cognitive Functions'|
x=='Cognitive Impact Resulting from Stroke'|
x=='Cognitive Impairment'|
x=='Cognitive Mental Status'|
x=='Cognitive Performance'|
x=='Cognitive State'|
x=='Cognitive Status'|
x=='Degree of Cognitive Abilities'|
x=='General Cognition'|
x=='General Cognitive Function'|
x=='General Cognitive Functioning'|
x=='General Cognitive Functions'|
x=='Global Cognition'|
x=='Global Cognitive Assessment'|
x=='Global Cognitive Function'|
x=='Global Cognitive Functioning'|
x=='Global Cognitive Functions'|
x=='Global Cognitive Impairment'|
x=='Global Cognitive Performance'|
x=='Global Cognitive Status'|
x=='Mild Cognitive Impairment'|
x=='Moderate Cognitive Dysfunction'|
x=='Recovery of Cognition'|
x=='Neuropsychological Functions'|
x=='Neuropsychological Impairment'|
x=='Mental Status'|
x=='Cognitive Screening'
]="General Cognition"
```

```
x[x=='Premorbid Ability'|
  x=='Premorbid Cognitive Function'|
  x=='Premorbid Cognitive Impairment']="Premorbid Cognitive Status"
```

```
x[x=='Premotor Abilities'|
  x=='Premotor Functions']='Premotor Function'
```

```
x[x=='Language'|
  x=='Language - Object Naming from Line Drawing'|
  x=='Language [judged by Neuropsychologist]'|
  x=='Language Abilities'|
  x=='Language Abilities - Speech Fluency'|
  x=='Language Ability'|
  x=='Language-Auditory Comprehension'|
  x=='Language Comprehension'|
  x=='Language-Confrontation Naming'|
  x=='Language Impairment'|
  x=='Language-Phonemic Verbal Fluency']
```

```
x=='Language-Picture Naming' |
x=='Language-Reading Capacity' |
x=='Language-Sentence Comprehension' |
x=='Cognitive Communicative Skills' |
x=='Verbal' |
x=='Verbal Ability' |
x=='Verbal Expression' |
x=='Verbal Fluency' |
x=='Verbal Function' |
x=='Verbal Processing' |
x=='Letter Fluency Tasks' |
x=='Lexical Fluency' |
x=='Phonological Fluency' |
x=='Semantic Fluency' |
x=='Narrative Speech' |
x=='Naming' |
x=='Naming Skills' |
x=='Word Naming']="Language Skills"
```

```
x[x=='Auditory Memory' |
x=='Delayed Memory' |
x=='Episodic Memory' |
x=='Episodic Verbal Memory' |
x=='Everyday Memory Problems' |
x=='General Long-Term Memory' |
x=='Immediate Memory' |
x=='Long Term Memory' |
x=='Long-Term Memory' |
x=='Long-Term Verbal Memory' |
x=='Memory' |
x=='Memory - Short Term' |
x=='Memory Registration' |
x=='Memory Self-Efficacy' |
x=='Memory-Long Term' |
x=='Memory-Long-Term Memory' |
x=='Memory-Short Term' |
x=='Memory-Short-Term Verbal' |
x=='Non-Verbal Visual Memory' |
x=='Nonverbal Memory' |
x=='Short-Term Memory' |
x=='Short-Term Memory Recall' |
x=='Short-Term Verbal Memory' |
x=='Verbal Declarative Memory' |
x=='Verbal Memory' |
x=='Verbal Short Term Memory' |
x=='Verbal Working Memory' |
x=='Visual Memory' |
x=='Visual Memory [nonverbal]' |
x=='Visual Memory [or Visuospatial Functions]' |
```

```
x=='Visual Memory Functions' |
x=='Visuospatial Memory' |
x=='Word Memory' |
x=='Working Memory' |
x=='Verbal' |
x=="Visuospatial Working Memory"]=
"Memory"
```

```
x[x=='Awareness of Visuospatial Neglect' |
x=='Neglect' |
x=='Personal Neglect' |
x=='Spatial Neglect Severity' |
x=='Unilateral Neglect' |
x=='Unilateral Visual Neglect' |
x=='Unilateral Visuospatial Neglect' |
x=='Visual Neglect' |
x=='Sensory']="Neglect"
```

```
x[x=='Neurologic Function' |
x=='Neurological Function']="Neurologic Function"
```

```
x[x=='Abstract Reasoning' |
x=='Nonverbal Reasoning' |
x=='Reasoning']="Reasoning Skills"
```

```
x[x=='Learning' |
x=='New Learning' |
x=='Verbal Learning']="Learning Skills"
```

```
x[x=='Auditory Comprehension' |
x=='Comprehension' |
x=='Verbal Comprehension of Complex Material' |
x=='Written Comprehension']="Comprehension Skills"
```

```
# x[x=='Naming' |
# x=='Naming Skills' |
# x=='Word Naming']="Naming Skills"## merged with Language skills
```

```
x[x=='Higher Visual Perception' |
x=='Planning Visuospatial Abilities' |
x=='Visual Fields' |
x=='Visual Movement Organization' |
x=='Visual Perception' |
x=='Visual Scanning']
```

```
x=='Visual Scanning Patterns' |  
x=='Visual-Spatial' |  
x=='Visuo-Motor Coordination' |  
x=='Visuo-Perceptual' |  
x=='Visuomotor Coordination' |  
x=='Visuomotor Speed' |  
x=='Visuospatial' |  
x=='Visuospatial Abilities' |  
x=='Visuospatial Ability' |  
x=='Visuospatial Cognition' |  
x=='Visuospatial Function' |  
x=='Visuospatial Functions' |  
x=='Visuospatial Scanning' |  
x=='Visual Search' |  
x=='Visuospatial Perception']="Visual Skills"
```

```
x[x=='Information Processing' |  
x=='Information Processing Speed' |  
x=='Processing Speed']="Processing Skills"
```

```
x[x=='Orientation' |  
x=='Orientation to Time' |  
x=='Temporal Orientation' |  
x=='Orientation to Time & Space']="Orientation Skills"
```

```
x[x=='Social Acuity' |  
x=='Social Cognition' |  
x=='Social Interaction']="Social Cognitive Skills"
```

```
x[x=='Delayed Word Recall' |  
x=='Immediate Recall' |  
x=='IR' |  
x=='DR' |  
x=='Recall' |  
x=='Recall over Time']="Recall"
```

```
x[x=='Higher Level Perception' |  
x=='Perception' |  
x=='Perceptual Functions' |  
x=='Spatial Perception']="Perception"
```

```
x[x=='Gestual Praxis' |  
x=='Praxia' |  
x=='Praxis' |  
x=='Praxis-Gnosis' |  
x=="Ideational"]="Praxis"
```

```
x[x=='Motor Functions' |  
  x=='Motor Skills' |  
  x=='Motor Speed']='Motor Skills'
```

```
x[x=='General Inteligence' |  
  x=='General Intellectual Functioning' |  
  x=='General Intelligence' |  
  x=='Intellectual Abilities' |  
  x=='Intellectual Ability']='Intellectual Abilities'
```

```
x[x=='Hit Reaction Time' |  
  x=='Reaction Speed' |  
  x=='Reaction Time']='Reaction Time'
```

```
x[x=='Function' |  
  x=='Functional Status' |  
  x=='Disability' |  
  x=='Degree of Disability' |  
  x=='Extent of Disability']='Functional Status'
```

```
x[x=='Cognitive Flexibility' |  
  x=='Mental Flexibility']='Cognitive Flexibility'
```

```
x[x=='[no Area]']='[Not Reported]'
```



## *Cognitive domains grouped into categories*

	<b>Cognitive domain</b>	<b>Times used</b>		
			37	Neurologic Function
			38	Perseveration
1	General Cognition	174	39	Premotor Function
2	Memory	110	40	Problem-Solving
3	Executive Function	87	41	Vigilance
4	Attention	63	42	Adjustment to Presentation
5	Language Skills	55		Speed
6	Visual Skills	34	43	Aphasia
7	Any [Not Reported]	18	44	Arithmetic
8	Construction skills	17	45	Calculation
9	Neglect	15	46	Category
10	Processing Skills	13	47	Cognitive Impairment
11	Orientation Skills	10	48	Commission Errors
12	Learning Skills	9	49	Commissions [number of
13	Functional Status	8		Times Person Responds to a
14	Reasoning Skills	8		Non-Target Item]
15	Social Cognitive Skills	8	50	Communication in Daily Life
16	Comprehension Skills	7		Situations
17	Communication	6	51	Conflict Resolution
18	Praxis	6	52	Disengagement Time
19	Recall	6	53	Extinction
20	Dementia	5	54	Field of Vision
21	Intellectual Abilities	5	55	Flexibility
22	Perception	5	56	Frontal Lobe Functions
23	Speed	5	57	Functional Neglect
24	Cognitive Flexibility	4	58	Impairment
25	Concentration	4	59	Information Content in
26	Motor Skills	4		Spontaneous Speech
27	Psychomotor Speed	4	60	Inhibition
28	Conceptualization	3	61	Initiation
29	Premorbid Cognitive Status	3	62	Intrinsic Alertness
30	Reaction Time	3	63	Item Omissions
31	Abstraction	2	64	Letter Sequencing
32	Alertness	2	65	List Learning
33	Behavior	2	66	Memory Post-Interference
34	Expression	2	67	Mental Control
35	Gnosia	2	68	Mental Slowness in Relation
36	Logical Deductive Ability	2		to Daily Activities
			69	Mental Tracking

70	Music Cognition	1	82	Sequencing	1
71	Nonverbal Directed Fluency Task	1	83	Set Shifting	1
72	Number Sequencing	1	84	Shifting	1
73	Number-Letter Switching	1	85	Signal Detection	1
74	Optical-Spatial Gnosis	1	86	Spatial Skills	1
75	Outcome of Rehabilitation	1	87	Speed Processing	1
76	Performance in Time Pressure Situations	1	88	Therapeutic Efficacy	1
77	Pre-Morbid Intellectual Functioning	1	89	Thought Operation	1
78	Repetition	1	90	Time to Find Increasing Numbers	1
79	Response Inhibition	1	91	Verbal Comprehension	1
80	Scanning	1	92	Visuospatial Neglect	1
81	Self-Monitoring of Non-Motor Performance	1	93	Word Finding	1
			94	Word Generation	1
			95	Word Reading	1

## Instrument categorization (code extract)

```
b[b=="1-Min Animal Naming Test" |  
  b=="1-Min Semantic Fluency Tests with Animals" |  
  b=="Animal Fluency Test" |  
  b=="Animal Naming Fluency Test" |  
  b=="Animal Naming Test" |  
  b=="Animals"]=  
  "Fluency Test [animals]"
```

```
b[b=="15-Item BNT" |  
  b=="15-Item Subset of the BNT"]=  
  "BNT [15-item version]"
```

```
b[b=="60-Item BNT"]=  
  "BNT [60-item version]"
```

```
b[b=="10 Word List Learning" |  
  b=="10-Word List" |  
  b=="10-Word List Learning Task" |  
  b=="Learning a Series of 10 Unrelated Words" |  
  b=="10-Word Memory Test" |  
  b=="10-Word Test"]=  
  "10-Word List Learn"
```

```
b[b=="5-Word Repetition" |  
  b=="5-Word Repetition with 3 Min Delay"]=  
  "5-Word Rep"  
b[b=="ACE-R"]='ACER'
```

```
b[b=="ADT"]="Auditory Detection"
```

```
b[b=="Aphasia Scale [from ADAS-Cog]"]=  
  "ADAS-Cog [aphasia Scale]"
```

```
b[b=="Orientation [from ADAS-Cog]"]=  
  "ADAS-Cog [orientation]"
```

```
b[b=="Arithmetic" |  
  b=="Arithmetic [from WAIS-R]" |  
  b=="Arithmetic Problem Solving"]=  
  "Arithmetic"
```

```
b[b=="Baking Tray Task"]=  
  "Baking Tray Test"
```

```
b[b=="Calculation" |
```

```
b=="Calculation" |  
b=="Calculation Test"]=  
"Calculation Test"
```

```
b[b=="DCT" |  
b=="Digit Cancellation"]=  
'Digit Cancel Task'
```

```
b[b=="Category" |  
b=="Category Fluency"]=  
"Fluency Test [categories]"
```

```
b[b=="Categorical Verbal Fluency [animals-1-Min]" |  
b=="Category Fluency [animal Naming]" |  
b=="Category Fluency [animals]" |  
b=="Category of Animals"]=  
"Fluency Test [animals]"
```

```
b[b=="Category Fluency [animals & Food Subtasks]" |  
b=="Category Naming [fruits-Vegetables & Fish]"]=  
"Fluency Test [categories]"
```

```
b[b=="CBS" |  
b=="CBT"]=  
"Corsi Blocks Test"
```

```
b[grep('CNT ',b)]= 'CNT battery [vcpt + acpt+ dsf & b + vsf & b + avlt &  
vrt]'
```

```
b[b=="CDT" |  
b=="Clock Drawing" |  
b=="Clock Drawing" |  
b=="Clock Task" |  
b=="Clock-Drawing" |  
b=="Clock Drawing [from BLAD]"]=  
"Clock Drawing Test"
```

```
b[b=="CNS"]=  
"CNS-Vital Signs Test"
```

```
b[b=="BIT-Conventional Subtest"]=  
"BIT [Conventional Subtest]"
```

```
b[b=="Copying Task [from BIT]"]=  
"BIT [Copying Task]"
```

```
b[b=="Picture Scanning [from BIT]"]=  
  "BIT [Picture Scanning]"
```

```
b[b=="Star Cancellation [from BIT]"]=  
  "BIT [Star Cancellation]"
```

```
b[b=="Copy Cube"]=  
  "Copy a Cube"  
b[b=="Construction Ability" |  
  b=="Constructional Ability"]=  
  'Construction Abilities'
```

```
b[b=="CP"]=  
  "Clock Perception"
```

```
b[b=="Depression Anxiety Stress Scale"]=  
  "DASS"
```

```
b[b=="Delayed Recall [from RAVLT]" |  
  b=="Delayed Recall Test" |  
  b=="DR" |  
  b=="DR [from WMS-III]"]=  
  "DR"
```

```
b[b=="DS [from WAIS - III]" |  
  b=="DS [from WAIS-II]" |  
  b=="DS [from WAIS-III]" |  
  b=="DS [from WAIS-IV]" |  
  b=="DS [from WAIS-R]" |  
  b=="DS [from WAIS]" |  
  b=="DS [from WMS-R]" |  
  b=="DS"]=  
  "Digit sp"
```

```
b[b=="DSB" |  
  b=="DSB [from WAIS-III-R]" |  
  b=="DSB [from WAIS-III]" |  
  b=="DSB [from WAIS - III]"]=  
  "Digit sp-b"
```

```
b[b=="DSB & DSF" |  
  b=="DSB & DSF [from WMS-III]" |  
  b=="DSF & DSB" |  
  b=="DSF & DSB [from WMS]"]=  
  "Digit sp-f & b"
```

```
b[b=="DSF" |  
  b=="DSF [from WAIS-III]" |  
  b=="DSF [from WAIS]" |  
  b=="DSF [wais-III-R]" ]=  
  "Digit sp-f"
```

```
b[b=="Go-No-Go Task" |  
  b=="Go-No-Go Test" |  
  b=="Go-No-Go Test [initiation & Response-Inhibition]" ]=  
  "Go-No-Go Test"
```

```
b[b=="GP" |  
  b=="GPT" ]=  
  "Grooved Peg Test"
```

```
b[b=="I-Flex" |  
  b=="I-Flex [a Short Form of the EXIT]" ]=  
  "I-Flex"
```

```
b[b=="IQCODE-SF" |  
  b=="IQCODE-SS" ]=  
  "IQ-CODE"
```

```
b[b=="JLO" |  
  b=="JLO [sf]" ]=  
  "Judg Line Orient"
```

```
b[b=="LCT" |  
  b=="LCT - For Right Hemisphere Stroke" |  
  b=="Letter Cancellation" |  
  b=="Letter Cancellation Task" |  
  b=="Single LCT" ]=  
  "Letter Cancellation"
```

```
b[b=="1-Min Phonemic Verbal Fluency [letters F-a-S]" |  
  b=="1-Minute Word Naming Trial [letters C-F-L]" |  
  b=="Letter Fluency" |  
  b=="Letter Fluency [words with P]" |  
  b=="Letters F-a-S" ]=  
  "Fluency Test [Letters]"
```

```
b[b=="LM [from WMS-III]" |  
  b=="LM [from WMT-R]" |  
  b=="LM I & LM II [from WMS-R]" |  
  b=="LM-I & LM-II [from WMS-R]" |  
  b=="LM-I & LM-II" |  
  b=="LM" |  
  b=="WLM" ]=
```

"Log Mem"

```
b[b=="LM [dr]" |  
  b=="LM II [from WMS-R]"]=  
  "Log Mem II"
```

```
b[b=="LM I [from WMS-R]"]=  
  "Log Mem I"
```

```
b[b=="Construction of the MMSE"]=  
  "MMSE [Construction Item]"
```

```
b[b=="Memorize Three Words [from MMSE]"]=  
  "MMSE [Three-Word Memory Item]"
```

```
b[b=="Orientation Items of the MMSE"]=  
  "MMSE [Orientation Items]"
```

```
b[b=="Spatial Orientation [from MMSE]"]=  
  "MMSE [Spatial Orientation Item]"
```

```
b[b=="MMSE [acute & Chronic Stages Only]" |  
  b=="MMSE [bengali Version]" |  
  b=="MMSE [brief Version]" |  
  b=="MMSE [chinese Version]" |  
  b=="MMSE [italian Telephone Version]" |  
  b=="MMSE [korean Version]" |  
  b=="MMSE [thai Version]"]=  
  "MMSE"
```

```
b[b=="Modified BVRT"]=  
  "BVRT [modified Version]"
```

```
b[b=="or TMT a"]=  
  "TMT A"
```

```
b[b=="Phonemic Fluency" |  
  b=="Phonemic Fluency [letter S]" |  
  b=="Phonemic Fluency [letters F-a-S]" |  
  b=="Phonemic Fluency Task" |  
  b=="Phonemic Test" |  
  b=="Phonetic Fluency"]=  
  "Fluency Test [phonemic]"
```

```
b[b=="Semantic Fluency"]=  
  "Fluency Test [semantic]"
```

```
b[b=="Verbal Fluency" |
```

```
b=="Verbal Fluency [animal & Food Categories]" |
b=="Verbal Fluency [animals]" |
b=="Verbal Fluency [animals & Professions]" |
b=="Verbal Fluency [animals] [from DAS]" |
b=="Verbal Fluency [letters F-a-S & B-H-R]" |
b=="Verbal Fluency Test" |
b=="VF - Categorical [animals]" |
b=="VF - Phonological [words]" |
b=="VFT" |
b=="VFT [generation]" |
b=="Word Fluency" |
b=="Word Fluency [phonemic & Semantic]"=
"Fluency Test [verbal]"
```

```
b[b=="Picture Completion" |
  b=="Picture Completion [from WAIS-R]"]=
"Picture Completion"
```

```
b[b=="R-CAMCOG"]=
"CAMCOG"
```

```
b[b=="RAPM [sf]"]=
"RAPM"
```

```
b[b=="WCFST" |
  b=="Weigl CST" |
  b=="Weigl Sorting Test"]=
"Weigl Color Sorting Test"
```

```
#####CLEANING FURTHER (REMOVING SUBTEST NAMES)
```

```
b[b=='ADAS [four Pictures]' |
  b=='ADAS [recall of Four Pictures]' |
  b=='ADAS-Cog' |
  b=='ADAS-Cog [aphasia Scale]' |
  b=='ADAS-Cog [orientation]']='ADAS-Cog'
```

```
b[b=="BDT" |
  b=="BDT [from WAIS-II]" |
  b=="BDT [from WAIS-III]" |
  b=="BDT [from WAIS-R]" |
  b=="BDT [from WAIS]"]=
"Block Design Test"
```

```
b[b=='BIT' |
```



```
b=='BIT [Conventional Subtest]' |
b=='BIT [Copying Task]' |
b=='BIT [Picture Scanning]' |
b=='BIT [Star Cancellation]' |
b=="BIT-Reading" |
b=="BIT-Star"='BIT'
```

```
b[b=="BNT" |
b=="BNT [15-item version]" |
b=="BNT [60-item version]" |
b=="BNT [french Version]" |
b=="BNT [modified Version]" |
b=="BNT [sf]"]=
"Boston Naming Test"
```

```
b[b=='BVRT [modified Version]' |
b=='BVRT [sf]' |
b=='BVRT-SF']='BVRT'
```

```
b[b=="CASI [chinese Version]"]=
'CASI'
```

```
b[b=='CAMCOG' |
b=='CAMCOG-R [section B Only]']='CAMCOG'
```

```
b[b=='Copying 4 Geometric Figures' |
b=='Copying Designs' |
b=='Copying Simple Figures' |
b=='Figure Copying [from CERAD]' |
b=='Time of Copying Task']='Figure Copying'
```

```
b[b=="COWAT [total Number of Words]"]=
"COWAT"
```

```
b[b=='CVLT' |
b=='CVLT-II']='CVLT'
```

```
b[b=='Digit Symbol' |
b=="Digit-Symbol" |
b=='Digit Symbol [coding Subtest from WAIS-III]' |
b=='Digit Symbol [from WAIS-II]' |
b=="DST" |
b=='Digit Symbol [from WAIS]' |
b=='DSS [from WAIS-III]' |
b=="DSST"]='Digit Symbol'
```

```
b[b=="Digit sp" |  
  b=="Digit sp-b" |  
  b=='Digit sp-f & b'|  
  b=="Digit sp-f"]="Digit sp"
```

```
b[b=='FCSRT [delayed Free Recall]'|  
  b=='FCSRT [total of the 3 Free Recalls Trials]'|  
  b=='Immediate Recall [from FACSRT]'|  
  b=='FACSRT']=  
  'FCSRT'
```

```
b[b=="Fluency Test [animals]" |  
  b=="Fluency Test [categories]" |  
  b=="1-Min Fluency Test [animals & Professions]" |  
  b=="Category Fluency [animals & Professions]" |  
  b=="Fluency Test [Letters]" |  
  b=="Fluency Test [phonemic]" |  
  b=="Fluency Test [semantic]" |  
  b=="Fluency Test [verbal]"]=  
  "Verbal Fluency"
```

```
b[b=="Geometric Figures [dr]" |  
  b=="Geometric Figures [ir]" ]=  
  "Geometric Figures"
```

```
b[b=='IQ-CODE' |  
  b=='IQCODE']='IQ-CODE'
```

```
b[b=="Ideomotor Apraxia Subtest Items"]=  
  "Ideomotor Apraxia Test"
```

```
b[b=="KSNAP [four Letter Word Subtest]" |  
  b=="KSNAP [gestalt Closure Subtest]" |  
  b=="KSNAP [mental Status Subtest]"]=  
  'KSNAP'
```

```
b[b=="Letter-Number Sequencing [from WAIS-III]"]=  
  "Letter-Number Sequencing"
```

```
b[b=="Log Mem" |  
  b=="Log Mem I" |  
  b=="Log Mem II" |  
  b=="Delayed Logic Memory" |  
  b=="LM I & LM II"]=  
  "Log Mem"
```

```
b[b=="Luria's Sequences" |  
  b=="Lurias Premotor Sequences" ]=  
  "Luria's sequences"
```

```
b[b=="Matrix Reasoning [from WAIS-III]" |  
  b=="Matrix Reasoning [from WAIS]" |  
  b=="Matrix Reasoning [from WASI]" ]=  
  "Matrix Reasoning"
```

```
b[b=='MDRS' |  
  b=='MDRS [initiation-Perseveration]' |  
  b=='Perseveration [from MDRS]' |  
  b=='Subtests of the MDRS']="MDRS"
```

```
b[b=="Mental Control [from WMS-III]" |  
  b=="Mental Control [from WMS]" ]=  
  "Mental Control"
```

```
b[b=='MMSE' |  
  b=='MMSE [Construction Item]' |  
  b=='MMSE [Orientation Items]' |  
  b=="MMSE [modified Version]" |  
  b=="MMSE [modified]" |  
  b=='MMSE [Spatial Orientation Item]' |  
  b=="Temporal & Spatial Orientation [from MMSE]" |  
  b=='MMSE [Three-Word Memory Item]' ]=  
  'MMSE'
```

```
b[b=='MoCA' |  
  b=='MoCA [attention Subtest]' |  
  b=='Rythms Subtest [from MoCA]' ]='MoCA'
```

```
b[b=="Naming" |  
  b=="Naming [from CERAD]" |  
  b=="Naming 5 Objects" |  
  b=="Naming 5 Parts of Object" |  
  b=="Naming of Pictures of Objects" |  
  b=="Naming [categories]" ]=  
  "Naming"
```

```
b[b=='PASAT' |  
  b=='PASAT [2 Slowest Trials]' ]=  
  'PASAT'
```

```
b[b=="RAVLT" |  
  b=="RAVLT [dr]" |  
  b=="RAVLT [ir-DR-DRec]" |  
  b=="RAVLT Total Number of Learnt Words from A1-A5" ]
```

```
b=="RAVLT [trial 6]" |
b=="RAVLT [trial 7 - 20-Min Delay]" |
b=="DRec [from RAVLT]" |
b=="RAVLT [trials 1-5]"=
'RAVLT'
```

```
b[b=="RCPM" |
b=="RCPM [set A]"]=
'RCPM'
```

```
b[b=="ROCF" |
b=="ROCF [copy Score]" |
b=="ROCFT" |
b=="RCFT [immediate & delayed Recall]" |
b=="RCFT [recall Score]" |
b=="RCFC" |
b=="ROCF [delay Score]"]=
'ROCF'
```

```
b[b=="RBANS" |
b=="RBANS [naming & Coding Subtests]" |
b=="Recognition Memory Test [from RBANS]"]=
'RBANS'
```

```
b[b=="Similarities [from WAIS-III]" |
b=="Similarities Subtest [from WAIS-II]" |
b=="Similarities Subtests [from WAIS-R]" |
b=="Similarity Test"]=
"Similarities"
```

```
b[b=="SIS" |
b=="SIS Memory"]=
'SIS'
```

```
b[b=="Spontaneous Speech"]=
"Spontaneous Speech Fluency"
```

```
b[b=="Simple Reaction Time"]=
'SRT'
```

```
b[b=="Stroop [modified] [set B Minus A]" |
b=="Stroop [color Naming]" |
b=="Stroop [interference Minus Naming]" |
b=="Stroop [interference Score]" |
b=="Stroop [interference Subtest]" |
b=="Stroop [modified Version]" |
b=="Stroop [scwt Parts 1 & 2]" |
b=="Stroop [victoria Version]" |
```

```
b=="Stroop Animal Test" |  
b=="Stroop Test 1 & 2 [victoria Version]" |  
b=="Stroop-CWIT [from the D-KEFS]" |  
b=="Stroop [modified] [set B Minus A]" =  
"Stroop"
```

```
b[grep('Two Computerized Attention',b)]=  
"Attention Subtests [from TAPr]"
```

```
b[b=="SR" |  
b=="Story Recall [from WMS]" |  
b=="SR [ir & DR]" |  
b=="Story [dr]" |  
b=="Story [ir]" |  
b=="Story Recall [from RBMT]" |  
b=="Story Recall [ir & DR]" ]=  
'Story Recall'
```

```
b[b=='Symbol Search [from WAIS]']=  
'Symbol Search'
```

```
b[b=='Attention Subtests [from TAPr]']=  
'TAPr'
```

```
b[b=="TMT [interference Score]" |  
b=="TMT [set B Minus A]" |  
b=="TMT [set-Shifting]" |  
b=="TMT [sets A1-A2 & B]" |  
b=="TMT a" |  
b=="TMT A" |  
b=="TMT a & B" |  
b=="TMT B" ]=  
"TMT"
```

```
b[b=="Token Test [modified Version-Time to Complete]" |  
b=="Token Test [sf]" |  
b=='Token Test [22-Item-Sf]']=  
"Token Test"
```

```
b[b=="Vocabulary [from WAIS]" |  
b=="Vocabulary Subtest [from WAIS-R]" ]=  
"Vocabulary [from WAIS]"
```

```
b[b=="VR" |  
b=="VR [copy Score] [from WMS-R]" |  
b=="VR [from WMS-III]" |  
b=="VR [from WMS]" |  
b=="VR [i - II & DRec] [from WMS-III]" |  
b=="VR [ir-DR & DRec - From WMS-R]" ]
```

```
b=="VR [ir-DR & DRec] [from WMS-R]" |  
b=="VR Copy [from WMS-III]" |  
b=="VR Copy Task [from WMS-R]" |  
b=="VR I & VR II [from WMS-R]" =  
"Visual Reproduct"
```

```
b[b=="VOSP" |  
b=="VOSPB" |  
b=="VOSP [silhouettes Subtest]"] =  
'VOSP'
```

```
b[b=="WAB" |  
b=="WAB [finger Gnosis & Stereognosis]"] =  
'WAB'
```

```
b[b=="WCST [modified Version]" |  
b=="WCST [nelson Version]" |  
b=="WCST"] =  
"Wisconsin Card Sort"
```

```
b[b=="Writing Task"] =  
"Writing"
```

```
b[b=="Word List Memory [or Flash Memory]" |  
b=="Word List Learn" |  
b=="Word List Memory [encoding]"] =  
"Word List Mem"
```

```
b[b=="WLR [ir-DR & DRec]" |  
b=="WLR [ir-DR & DRec]" |  
b=="WLR [ir-DR & DRec]" |  
b=="Word List Recall [or Learning Period]" |  
b=="Word List Recognition [or Recall of Knowledge]"] =  
"Word List Recall & Recog"
```

```
b[b=="WLL [from CERAD]" |  
b=="WLL [ir & DR from CERAD]" |  
b=="WLL" |  
b=="Word List Recall & Recog"] =  
"Word List Learn"
```