7. Did your क्या आपव	child have these symptoms before three years? हा बच्चे के यह लक्षण तीन साल की उम्र से पहले शुरू हुए थे ? 0:No
1	1:Yes/Do not know/ Not sure
	child fulfill <u>all</u> the following criteria for diagnosis of Rett's Disorder?
•	Female Child
•	Loss of purposeful hand skills between 5-30 months age and development of stereotyped hand wringing, hand washing or hand to mouthing movements
•	Loss of social engagement early in course during 9-29 months (although often social interaction develops later)
•	Severely impaired expressive and receptive language development with severe psychomotor retardation <b>0:</b> No <b>1:</b> Yes
9. Does the Disorder	child fulfill all the following criteria for diagnosis of Childhood Disintegrative
•	Normal development till 2 years age, by the presence of age appropriate verbal and nonverbal communication, social relationships, play and adaptive behavior
•	After 2 years of age, loss of previously acquired milestones (before age 10 years) in 2 or more of the following areas (Tick (✓) the areas in which milestones are lost) - Expressive/receptive language
	<ul> <li>Social skills/Adaptive behavior</li> </ul>
	<ul> <li>Bowel or bladder control</li> </ul>
	- Play skills
3	- Motor skills
•	Abnormalities of functioning in at least two of the following areas:
	<ul> <li>Qualitative impairment in social interaction</li> </ul>
	<ul> <li>Qualitative impairment in communication</li> <li>Restricted, repetitive and stereotyped patterns of behavior</li> </ul>
	1: No 1: Yes
10 There is	no clinically significant delay in any of the following?
	uage development (single words used by age 2 years, communicative phrase used by
age : (अप-	age de verophien (angle words used by age 2 years, communicative phase used by Sycars 1) उम्र के हिसाब से बोलना शुरू किया था (दो साल तक शब्द बोलना और साल तक दो या तीन शब्द के वाक्य बोलना।
• Cogn	tive Development OR Development of age-appropriate self-help skills सक विकास या अपनी देखमाल करने की क्षमता
• Adap	tive behavior (Other than in social interaction) 1: Yes
11. Summa	ry assessment of ASD
	0: No ASD (Response to 4 is "0")
	1: Autism (Response to ALL of 1 to 7 is "1" and 8,9 is "0")
	2: Asperger's Disorder (Response to 4 is "1", 6D is "1" and 10 is "1")
	<b>3: PDD-NOS</b> (Response to 4 is "1" and either 5 or 7 or both is"0") <b>4: Rett's Disorder</b> (Response to 4 is "1" and 8 is "1")
	<b>5: CDD</b> (Response to 4 is "1" and 9 is "1")
	9: Indeterminate (Criteria not fulfilled, too many unsure responses, could not be teste
	in appropriate condition)

12. Can these symptoms be solely en 0: No 1: Yes	xplained byIntellectual Disability?						
If yes, refer to TAG review 13. Additional note and observation during the interview							
Name of the Assessor	Signature of the Assessor	Date of assessment					
	J	1					

# AIIMS Modified INDT-ASD Diagnostic Evaluation for Autism Spectrum Disorder

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Section	Ask	Observe	Yes	No	Unsure
Ala	i)* For children aged	Observe how the child			
Social	less than 4 years:	draws attention toward a		$\cap$	
emotional	Does/did your child ever	toy/object of interest; Look			
reciprocity	point with his/her index	for coordinated pointing			
	finger to bring your				
	attention to show the				
	things that interest				
	him/her? E.g. kite,				
	plane flying in the sky,				
	cow/dog on the road etc.				
	For children aged 4				
	years or more: Does				
	your child usually bring				
	things to				
	show you on his/her own				
	he/she has				
	made painted or new				
	toy/gift?				
	ii)* For children aged			0	
	4 years or more, and			$\cup$	
	are able to speak : Does				
	your child talk to you				
	about things he/she likes				
	or has achieved without				
	being asked about them?				
	iii) * Does your child	Quality of play activity in a	0		
	usually prefer to	group of children or with	$ \circ $		
	play alone and gets	siblings			
	irritated/moves away				
	when his/her sibs or				

new to co	ntinue the			
but also a	dds something			
	she not only our questions,			
	child during			
you have	conversation	or yourself		
	children aged more: Can	Quality of child's conversation with parents	0	
	s your child conversation	Quality of child's conversation with parents or yourself	0	
are upset /	/ sad?			
happiness comfort y	or try to ou when you			
share your				
Does your	child usually	child		
vi) * For a 4 years or	children aged • more:	Sharing of parent's happiness or distress by the		
come to ye when hurt	ou for comfort or upset?			
	nare his/her with you or	distress with the parents		
	your child	Sharing happiness or		
spy, Ludo, a- ring ros	Stapoo, Ring ses etc.			
	ide and seek/I-			
children p	oroperly?E.g.			
based wit		taking turns		
170 - 851 3769.	es involving ng or rule	games or games involving		
	s your child	Quality of child's involvement in rule-based		
with him/l	try to play her?			

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	conversation?			
Section A1b Non verbal communication	<ul> <li>i) *For children aged</li> <li>less than 4 years:</li> <li>Does your child usually</li> </ul>	In children below 4 years age: Response to being touched and cuddled by	0	
	enjoy being taken in the lap or hugged? <i>For</i> <i>children aged 4 years or</i> <i>more:</i> When your child was a baby/toddler, did he/she enjoy being taken in the lap or hugged?	parent: enjoys/tolerates/squirms/ stiffens/ gets upset/ Indifferent		
	<ul> <li>ii) Does your child</li> <li>usually make eye</li> <li>contact with you or other</li> <li>people?</li> <li>E.g. While playing,</li> <li>asking for things,</li> <li>talking to you.</li> </ul>	* Quality of eye contact	0	
	<ul> <li>iii) * Does your child</li> <li>usually use various</li> <li>gestures appropriately</li> <li>during social</li> <li>interactions?</li> <li>E.g. Namaste, Salaam,</li> <li>waving bye-bye, hello,</li> <li>touching feet etc. (At</li> <li>least sometimes</li> <li>spontaneously) (use</li> <li>appropriate example as</li> <li>required)</li> </ul>	Use of these gestures in response to your greeting and while departing		
	<ul> <li>iv) Does your child</li> <li>usually show</li> <li>appropriate facial</li> <li>expressions according</li> </ul>	*Appropriateness of facial expressions while interacting with parents, with you (stranger), while	0	

	to the situation? <i>E.g. being happy, sad,</i> <i>afraid etc.</i>	playing, when given toy/favorite food or when scolded.			
Section A1c Relationships	<ul> <li>i) * Does your child</li> <li>usually enjoy the</li> <li>company of other</li> <li>children?</li> </ul>	Child's interaction with other children		0	
	ii) * For children aged 4 years or more: Docs your child have friends of his/her age (In school and neighbor hood) with whom he/she loves to chat, share food or play together?	Quality of child's interaction with other children of his/her age		0	
	<ul> <li>iii)* For children aged</li> <li>4 years or more:</li> <li>Does your child play</li> <li>mostly with children</li> <li>who are much older or</li> <li>much younger than</li> <li>him/her?</li> </ul>	Quality of child's interaction with other children	0		
Section A2a Stereotyped movement or speech	<ul> <li>i) Does your child</li> <li>usually repeat words or phrases regardless of meaning (in part or whole) that he/she has heard?</li> <li>E.g. If you say 'toffee' he will also say 'toffee' if you say 'come' he will also say 'come' and if you ask "what is your</li> </ul>	* Immediate echolalia (words or phrases)	0		

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name", he/she also says "what is your name".		
<ul> <li>ii) Does he/she</li> <li>incessantly repeat</li> <li>things/T.V serial</li> <li>dialogue regardless of</li> <li>meaning/ context,</li> <li>whatever he/she has</li> <li>heard later on?</li> </ul>	* Delayed echolalia	0
<ul> <li>iii) For children aged 4</li> <li>years or more: Does</li> <li>your child usually use "I</li> <li>for me" and "me for</li> <li>you" incorrectly?</li> <li>E.g., when you ask "do</li> <li>you want milk?" he/she</li> <li>says "yes, you want</li> <li>milk" or "Rohit wants</li> <li>milk" (referring to him</li> <li>self).</li> </ul>	* Pronoun reversal	0
iv) For children aged 4 years or more: During conversation does your child often speak 'out of context' or irrelevantly?	Out-of-context speech and neologisms	0
<ul> <li>v) * For children aged 6 years or more:</li> <li>Does your child understand that somebody is making fun of him/her or can he/she understands jokes?</li> </ul>	Child's response to an age appropriate joke	0
vi) Does your child keep on <b>repeating</b> any of	* Any type of motor stereotypes, unusual	0

	<ul> <li>the followings, like</li> <li>flapping hands,</li> <li>hand wringing,</li> <li>toe-walking,</li> <li>rocking or spinning,</li> <li>making unusual finger or hand movements near his/her face?</li> </ul>	finger/hand movements near face		
	vii) * Does your child have <b>inappropriate</b> fascination with movement? <i>E.g. spinning wheels,</i> <i>opening and closing of</i> <i>doors, electric fan,</i> <i>running water and any</i> <i>other revolving object</i> <i>etc.</i>	Child's <b>inappropriate</b> fascination with objects in motion	0	
Section A2b Routines	Does your child unreasonably <b>insist</b> on doing things in a particular way and/or become <b>upset</b> if there is any change in the daily routine? <i>E.g., Taking exactly the</i> <i>same route to the school</i> <i>or market, insisting on</i> <i>food being served in the</i> <i>same pattern or</i> <i>sequence etc.</i>	Child's insistence on any unusual routines or rituals	0	

Child Assessment Booklet HINDI

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Section A2c Fixed interest	Does your child prefer to play with a particular	* Quality of child's play with different toys and	O	
Tixed interest	part of a toy/object	objects		
	rather than	objects		
	the whole toy/object?			
	E.g. wheels of a toy			
	rather than the whole			
	toy			
	And/Or			
	Persistent unusual			
	preoccupation with			
	inanimate objects? E.g.			
	Toffee wrappes, threads,			
	bits of papers, flowing			
	water			
	And/Or			
	Persistent behavioural			
	attributes? E.g. Liking			
	particular sound/visual			
	stimuli, any particular			
	color or form of cloth			
Section A2d	i) Is your child	Apparent indifference to	+	_
Sensory	indifferent to pain or	pain or temperature	$\bigcirc$	
symptoms	temperature?	pair or temperature		
	ii) Does your child show	Getting irritated with	$\cap$	
	excess reaction to	certain specific sounds or	$\cup$	
	specific sound or texture	texture of certain clothes		
	iii) Does your child have	Excessive smelling of		
	excessive smelling?	hands or arms	$ \circ $	
	iv) Does your child have	Excessive touching objects		
	excessive touching of	in the room	O	

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Child Assessment Booklet HINDI

1. No. of criter	ia fulfilled in A	1 of the section A (Social Interaction	on and communication)
	0: Two	or less	
	1: Three	•	
2. No. of criter	ia fulfilled in A	2 of the section A (restrictive and r	epetitive)
	0: Nil o	r one	
	1: Two	or more	
3. Is there onse	t at early devel	lopment?	
	0: No		
	1: Yes		
4. Is there an in	mpaired function	oning?	
	0: No		
	1: Yes		
5. Interpretatio	on of questionn	aire (1 to 4)	
	0: No A	<b>SD</b> (If reponse to any of 1-4 is "0")	
	1: ASD	present (If response to 1-4 is "1")	
6. Total numbe	er of criteria fu	Ifilled in A1 and A2 together	
	0: Four	or less	
	1: Fives	or more	
7. Summary as	sessment of AS	5D	
	0: No A	SD (Response to 5 and 6 is "0")	
	1: ASD	(Response to 5 and 6 is "1" and 8 is	"0")
8. Can these sy	mptoms be sol	ely explained by Intellectual Disab	ility?
	<b>0:</b> No		
	1: Yes		
9. Additional n	ote and observ	ation during the interview	
Name of th	ie Assessor	Signature of the Assessor	Date of assessment
Name of th	ne Assessor	Signature of the Assessor	Date of assessment

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INDIAN SCALE FOR ASSESSMENT OF AUTISM

APPENDIX- XII

D.O.B: Examiner.

#### Directions:

Below are given 40 statements which are divided under six domains, please tick ( $\sqrt{}$ ) mark the appropriate rating for each item of the scale by observing the child and by interviewing the parents in order to assess Autism

Items		Rarely Upto 20% Score 1	Sometimes 21 - 40 % Score 2	Frequently 41 - 60% Score 3	Mostly 61- 80 % Score 4	Always 81-100% Score 5
	OCIAL RELATIONSHIP AND RECIPROCITY			-		
1	Has poor e ye contact					
2	Lacks social smile					
3	Remains aloof					
4	Does not reach out to others					
5	Unable to relate to people					
6	Unable to respond to social/ environmental cues					
7	Engages in solitary and repetitive play activities					
8	Unable to take turns in social interaction					
9	Does not maintain peer relationships					
11 12	Shows exaggerated emotions Engages in self-stimulating emotions					
13	Lacks fear of danger	0				
14	Excited or agitated for no apparent reason					
ш	SPEECH-LANGUAGE AND COMMUNICATIO	DN				
15	Acquired speech and lost it		1			
16	Has difficulty in using non-verbal language or gestures to communicate					
17	Engages in stereotyped and repetitive use of language				ĺ	
18	Engages in echolalic speech					
19	Produces infantile squeats/ unusual noises	1			1	

	Items	Rarely Upto 20% Score 1	Sometimes 21 - 40 % Score 2	Frequently 41 - 60% Score 3	Mostly 61- 80 % Score 4	Always 81-100% Score 5
21	Uses jargon or meaningless words					
22	Uses pronoun reversals					
23	Unable to grasp pragmatics of communication (real meaning)					
IV.	BEHAVIOUR PATTERNS					
24	Engages in stereotyped and repetitive motor mannerisms					
25	Shows attachment to inanimate objects					
26	Shows hyperactivity/ restlessness					
27	Exhibits aggressive behavior					
28	Throws temper tantrums					
29	Engages in self-injurious behavior					
30	Insists on sameness					
v. s	ENSORY ASPECTS					
31	Unusually sensitive to sensory stimuli	1				
32	Stares into space for long periods of time					
33	Has difficulty in tracking objects					
34	Has unusual vision					
35	Insensitive to pain					
36	Responds to objects/people unusually by smelling, touching or tasting					
VI. (	COGNITIVE COMPONENT			-	1	
37	Inconsistent attention and concentration	ľ				
38	Shows delay in responding					
39	Has unusual memory of some kind					
40	Has *savant* ability			-		

Classification	No autism	Mild autism	Moderate autism	Severe autism
	<70	70-106	107-153	>153
Total score				

APPENDIX- XIII

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### IDEAS

#### (INDIAN DISABILITY AND ASSESSMENT SCALE) A scale for measuring and

#### quantifying disability in mental disorders

The Persons with disability act 1995 includes mental illness as disability. The persons with mental illness are eligible to avail all the benefits under the persons with disability act 1995. The disabled people need disability certificate showing more than 40% disability from the competent authority to avail the benefits. The disability act covers seven disabilities

- 1. Blind
- 2. Low vision
- 3. Deaf and Dumb
- 4. Leprosy cured
- 5. Mentally retarded
- 6. Orthopedic handicap
- 7. Mental illness

The assessment tools have already been existed for the visually impaired, hearing impaired and orthopedic handicap and persons with mental retardation. These people are certified by the authentic body and become eligible by having disability certificates to avail the benefits under the PWD Act 1995. But there was no assessment tools for the certification of mentally ill people and yet these people are not availed any benefits even as disabled. Looking that perspective and to justify these people rehabilitation committee of Indian Psychiatric Society has developed the assessment tool for disability certification in 2002. This tool is known as Indian Disability Evaluation and Assessment Scale in short IDEAS. This IDEA has opened new horizon for mentally ill people. This committee has developed clear guideline to make use of it very easy.

#### **General Guidelines:**

ØIDEAS are suited best for the purpose of measuring and certifying Disability.

Ølt is therefore a brief and simple instrument, which can be used, even in busy clinical settings.

ØSome training is required in the use of IDEAS.

- ØThis is to be used only on out patients and those living in the community. Not appropriate for inpatients.
- ØRating should be done only based on interviews of the Primary Care Givers. Case records and patients interviews can be used to supplement information.
- ØOnly in rare instances when no primary care giver is available should be the rating is based only on patient interview. This should then be documented.

ØThe gender specification "he" has been used for convenience and refers to both genders.

ØProbe questions help to guide one through the interview and to help identify dysfunction in one or more activities. Diagnostic Categories:

# Patients with only the following diagnosis as per ICD or DSM criteria are eligible for disability benefits:

#### ØSchizophrenia

**ØBipolar Disorder** 

**ØDementia** 

#### **ØObsessive Compulsive Disorder**

Duration of illness: the total duration of illness should be least two years. For the purpose of scoring, the number of months the patients was symptomatic in the last two years (MI 2Y – months of illness in the last two years) should be determined.

#### Who does the assessment?

Only the Psychiatrist can do diagnosis and certification. Trained social workers, psychologist, or occupational therapists can do administration of **IDEAS** 

#### Frequency of Re-certification

Psychiatric Disability will be reassessed every two years and re-certified. The feasibility of doing this in the rural areas will however have to be examined.

#### Items:

- Self care : Includes taking care of body hygiene, grooming, health including bathing, toileting, eating and taking care of one's health.
- II. Interpersonal Activities (Social Relationship) : Includes initiating and maintaining interactions with others in a contextual and socially appropriate manner.
- Communication and Understanding : Includes communication and conversation with others by producing and comprehending spoken/ written/ nonverbal messages.
- IV. Work: Three areas are Employment/ House work/ Education measures any one aspect.

- Performing in Work/ Job : Performing in work / employment (paid) employment /self employment family concern or otherwise. Measures ability to perform tasks at employment completely and efficiently and in proper time. Includes seeking employment.
- Performing in Housework: Maintaining household including cooking, caring for other people at home, taking care of belongings etc. Measures ability to take responsibility for and perform household tasks completely and efficiently and in proper time.
- 3. Performing in school/ college: measures performance in education related tasks.

#### Scores for Each Item:

- 0-No Disability
- 1 Mild Disability
- 2 Moderate Disability
- 3 Serve Disability
- 4 Profound Disability

Total Score (range 0-20)

Add scores of the 4 items and obtain total score

MI 2y months of illness in the last two years. Interview with informant and case notes if available should be used to determine for how many months in the last two years the patients exhibited symptoms(range 1-4)

MI 2 Years < 6 months: score to be added is 1

7-12 months: add 2

13-18 months : add 3

> 18 months : add 4

#### **Global Disability**

Total disability score + MI 2Y score = Global Disability Score (range 120)

#### Percentage:

For the purpose of welfare benefits, 40% will be cut off point. The scores above 40% have been categorized as Moderate, Severe, and profound based on the Global disability score. This grading will be used to measures change overtime

Score of 0- No disability = 0%

1-7 – Mild Disability = <40%

8 and above =>40%

(8-13 moderate disability; 14-19 Severe Disability; 20 Profound Disability)

Source and Courtesy:http://www.bpaindia.org/ENApril-June06.htm

## APPENDIX- XIV

patient:

Rater:

Scale for the assessment and rating of ataxia (SARA)

date:

Proband is asked (1) to walk at a safe distance parallel to a wall including a half-turn (turn around to face the opposite direction of gait) and (2) to walk in tandem (heels to toes) without support.	2) Stance Proband is asked to stand (1) in natural position, (2) with feet together in parallel (big toes touching each other) and (3) in tandem (both feet on one line, no space between heel and toe). Proband does not wear shoes, eyes are open. For each condition, three trials are allowed. Best trial is rated.
0       Normal, no difficulties in walking, turning         and       walking tandem (up to one misstep         allowed)       1       Slight difficulties, only visible when         walking 10       consecutive steps in tandem         2       Clearly abnormal, tandem walking >10 steps not         possible       3       Considerable staggering, difficulties in half-turn,         but       without support       4         4       Marked staggering, intermittent support of the         wall       required         5       Severe staggering, permanent support of one stick         or       light support by one arm required	0 Normal, able to stand in tandem for > 10 s 1 Able to stand with feet together without sway, but not in tandem for > 10s 2 Able to stand with feet together for > 10 s, but only with sway 3 Able to stand for > 10 s without support in natural position, but not with feet together 4 Able to stand for >10 s in natural position only with intermittent support 5 Able to stand >10 s in natural position only with constant support of one arm 6 Unable to stand for >10 s even with constant support of one arm
Score	Score

<ul> <li>3) Sitting Proband is asked to sit on an examination bed without support of feet, eyes open and arms outstretched to the front. Normal, no difficulties sitting &gt;10 sec Slight difficulties, intermittent sway Constant sway, but able to sit &gt; 10 s without support Able to sit for &gt; 10 s only with intermittent support Unable to sit for &gt;10 s without continuous support</li></ul>		4) Speech disturbance Speech is assessed during normal conversation. Normal Suggestion of speech disturbance Impaired speech, but easy to understand Occasional words difficult to understand Many words difficult to understand Only single words understandable Speech unintelligible / anarthria			
					Score
			1		1
Rater:		opatient: 6) Nose-finger test Rated separately for Proband sits comforta and trunk is allowed. with his index finger : which is in front of th 'proband's reach. Mov speed. Average perfor according to the ampli No tremor Tremor with an amplit Tremor with an amplit Tremor with an amplit Unable to perform 5 p	bly. If necessary, Proband is asked from his nose to 6 e proband at above rements are performance of moven itude of the kinet tude < 2 cm tude < 5 cm tude > 5 cm	to point repeatedly examiner's finger ut 90 % of rrmed at moderate nents is rated tic tremor.	
Score Ri	ght	Left	Score	Right	Left
mean of both sides (R+L)/2			mean of both sides (R	+L)/2	

Rated separately Proband sits com and trunk is allow cycles of repetitiv the hand on his/h possible. Movem speed of approx. movement execut 0 Normal, 1 1 Slightly in 2 Clearly in to distinguish or r performs <10s 3 Very irre to distinguish or r >10s	fortably. If necessar ved. Proband is aske	ry, support of feet ed to perform 10 >- and supinations of as precise as by examiner at a s. Exact times for n. rforms <10s) <10s) ements difficult is, but	legs. Proband is a to the opposite kn ankle, and lay the task is performed with contact to shin in Normal Slightly abnormal, Clearly al during 3 cycles 3 Severely a during 3 cycles		oint with the heel the shin to the nination bed. The movements should des down without anined 2 up to 3 times
Score	Right	Left	Score	Right	Left
mean of both side	es (R+L)/2		mean of both sid	es (R+L) / 2	

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### APPENDIX- XV

Stage	Hoehn and Yahr Scale	Modified Hoehn and Yahr Scale
1	Unilateral involvement only usually with minimal or no functional disability	Unilateral involvement only
1.5	-	Unilateral and axial involvement
2	Bilateral or midline involvement without impairment of balance	Bilateral involvement without impairment of balance
2.5	-	Mild bilateral disease with recovery on pull test
3	Bilateral disease: mild to moderate disability with impaired postural reflexes; physically independent Mild to moderate bilateral instability; physically inde	
4	Severely disabling disease; still able to walk or stand unassisted	Severe disability; still able to walk or stand unassisted
5	Confinement to bed or wheelchair unless aided	Wheelchair bound or bedridden unless aided

### APPENDIX- XVI

### ALS Functional Rating Scale Revised (ALS-FRS-R)

Date:	Name patient:	Date
of Birth:	Patient's	

handed

#### Item 1: SPEECH

- 4 🗌 Normal speech process
- 3 Detectable speech disturbance
- 2 Intelligible with repeating
- I 
  Speech combined with non-vocal communication
- 0 □ Loss of useful speech

#### **Item 2: SALIVATION**

- 4 🗆 Normal
- 3 🗌 Slight but definite excess of saliva in mouth; may have nighttime drooling
- 2 Moderately excessive saliva; may have minimal drooling (during the day)
- 1 Marked excess of saliva with some drooling
- 0 
  Marked drooling; requires constant tissue or handkerchief

#### Item 3: SWALLOWING

- 4 Normal eating habits
- 3 🗆 Early eating problems occasional choking
- 2 Dietary consistency changes
- 1 🗌 Needs supplement tube feeding
- 0 
  NPO (exclusively parenteral or enteral feeding)

#### Item 4: HANDWRITING

- 4 🗌 Normal
- 3 🗆 Slow or sloppy: all words are legible
- 2 Not all words are legible
- $1 \square$  Able to grip pen, but unable to write
- 0 🗆 Unable to grip pen

#### Item 5a: CUTTING FOOD AND HANDLING UTENSILS Patients <u>without</u> gastrostomy Use 5b if >50% is through g-tube

- 4 🗌 Normal
- 3 🗆 Somewhat slow and clumsy, but no help needed
- 2 Can cut most foods (>50%), although slow and clumsy; some help needed
- $1 \square$  Food must be cut by someone, but can still feed slowly
- 0 🗆 Needs to be fed

#### Item 5b: CUTTING FOOD AND HANDLING UTENSILS

Patients with gastrostomy  $\Box$  5b option is used if the patient has a gastrostomy and only if it is the primary method (more than 50%) of eating .

- 4 🗆 Normal
  - 3 Clumsy, but able to perform all manipulations independently
  - 2 Some help needed with closures and fasteners

- Provides minimal assistance to caregiver 10
- 0 Unable to perform any aspect of task

#### ALS Functional Rating Scale Revised (ALS-FRS-R). Version: May 2015

#### Item 6: DRESSING AND HYGIENE

- Normal function 40
- 3 Independent and complete self-care with effort or decreased efficiency
- 2 Intermittent assistance or substitute methods
- Needs attendant for self-care 1.11
- 0 Total dependence

#### Item 7: TURNING IN BED AND ADJUSTING BED CLOTHES

- 4 🗆 Normal function
- 3 1 Somewhat slow and clumsy, but no help needed
- 2 Can turn alone, or adjust sheets, but with great difficulty
- 10 Can initiate, but not turn or adjust sheets alone
- 0 🗆 Helpless

#### Item 8: WALKING

- 4 🗆 Normal
- 3 🗆 Early ambulation difficulties 2 []
- Walks with assistance
- 1 [] Non-ambulatory functional movement
- 0 🗆 No purposeful leg movement

#### **Item 9: CLIMBING STAIRS**

- 4 Normal
- 3 [] Slow
- 2 Mild unsteadiness or fatigue
- 1 🗆 Needs assistance
- 0 Cannot do

#### Item 10: DYSPNEA

- 4 🗆 None
- 3 🗆 Occurs when walking
- Occurs with one or more of the following: eating, bathing, dressing (ADL) 2
- 10 Occurs at rest: difficulty breathing when either sitting or lying
- 0 Significant difficulty: considering using mechanical respiratory support

#### Item 11: ORTHOPNEA

- None 4 🗆
- 3 🗆 Some difficulty sleeping at night due to shortness of breath, does not routinely use more than two pillows
  - 2 Needs extra pillows in order to sleep (more than two)
  - 1.0 Can only sleep sitting up
  - 0 Unable to sleep without mechanical assistance

#### Item 12: RESPIRATORY INSUFFICIENCY

- 4 None
- 3 🗆 Intermittent use of BiPAP
- Continuous use of BiPAP during the night 2
- Continuous use of BiPAP during day & night 1 🗆
- 0 Invasive mechanical ventilation by intubation or tracheostomy

#### Interviewer's

name.....

ALS Functional Rating Scale Revised (ALS-FRS-R). Version: May 2015

#### APPENDIX- XVII

The New York Heart Association (NYHA) Functional Classification is a system used to classify extent of disease for patients with heart disease. How to complete the NYHA Functional Classification

- 1. Nurses and physicians may complete the NYHA Functional Classification.
- 2. Review NYHA Functional Classification form.
- Review medical record to assess presence and extent of cardiac disease, signs and symptoms.
- During assessment, observe the patient's subtle dependencies and interactions within the existing support networks.
- Interview patient and/or family to obtain information regarding symptom occurrence, functionality and comfort level using questions below.

#### Questions that may be useful in assessing patients include

- 1. Are there any limitations of physical activity? How much? What activities are limited?
- 2. Is there any discomfort at rest?
- Does physical activity cause any symptoms such as fatigue, palpitation, dyspnea, or anginal pain?

 How much activity is required to cause symptoms? Normal activity for age, less than ordinary activity, minimal activity, no activity at all

NYHA Classification - The Stages of Heart Failure:

Class I - No symptoms and no limitation in ordinary physical activity, e.g. shortness of breath when walking, climbing stairs etc.

Class II - Mild symptoms (mild shortness of breath and/or angina) and slight limitation during ordinary activity.

Class III - Marked limitation in activity due to symptoms, even during less-than-ordinary activity, e.g. walking short distances (20100 m). Comfortable only at rest.

Class IV - Severe limitations. Experiences symptoms even while at rest. Mostly bedbound patients.

### APPENDIX- XVIII

#### **CTP** calculation

- Encephalopathy: None = 1 point, Grade 1 and 2 = 2 points, Grade 3 and 4 = 3 points
- Ascites: None = 1 point, slight = 2 points, moderate = 3 points
- Bilirubin: under 2 mg/ml = 1 point, 2 to 3 mg/ml = 2 points, over 3 mg/ml = 3 points
- Albumin: greater than 3.5mg/ml = 1 point, 2.8 to 3.5mg/ml = 2 points, less than 2.8mg/ml = 3 points
- Prothrombin Time\* (see prolonged): less than 4 see 1 point, 4 to 6 sec 2 points, over 6 sec = 3 points

\*Frequently INR will be used as a substitute for PT, with INR under 1.7 = 1 point, INR 1.7 to 2.2 = 2 points, INR above 2.2 = 3 points

- The severity of cirrhosis:
  - Child-Pugh A: 5 to 6 points
  - Child-Pugh B: 7 to 9 points
  - Child-Pugh C: 10 to 15 points
  - •

APPENDIX- XIX EGFR calculator Glomerular filtration rate (GFR) is the best overall index of kidney function. Normal GFR varies according to age, sex, and body size, and declines with age. The National Kidney Foundation recommends using the CKD-EPI Creatinine Equation (2021) to estimate GFR. https://www.kidney.org/professionals/kdoqi/gfr\_calculator The formula required standardized assays for creatinine. Cystatin value is more specific but

egfr calculation will be based on creatinine in present guidelines. For person less than 18 years, a pediatricgfr calculator is to be used

https://www.kidney.org/professionals/kdoqi/gfr\_calculatorPed

 If values for cystatin C and/or BUN are not entered, the calculator will generate GFR estimates using the creatinine-based "Bedside Schwartz" equation only (currently considered the best method for estimating GFR in children).

APPENDIX- XX

#### Pain Disability Questionnaire (PDQ)

The Pain Disability Questionnaire (PDQ) is a psychometric evaluation measure of functional status in patients with chronic pain. It co-relates with physical and psychological human function (pain intensity, depression) and work disability.

The pain Disability Questionnaire is a measure of functional status and focuses on disability, function, and psychosocial variables. This tool has excellent psychometric properties and consistently demonstrates strong correlations to various physical and psychosocial measures. Pain Disability Questionnaire (PDQ) is determined by independent ratings, on a 10-point scale (from 0 = poor relevance to 10 = excellent relevance) (table I).

Then the total points calculated in Table I are converted to disability percentages as shown in Table II. Both tables are provided.

	PDQ questions	Score options depending on limitation of activities.					Patient PDQ actual points
1.	Does your pain interfere with your normal work inside and outside home?	0 (work normally)	1-9	10 (Unable to work at all)			
2	Does your pain interfere with personal care (such as washing, dressing)	0 (Take care of myself completely)	1-9	10 (need help with all my personal care)			
3	Does your pain interfere with your traveling?	0 (travel anywhere I like)	1-9	10 (only travel to see doctors)			

4.	Does your pain affect	0	1-9	10
	your ability to sit or stand?	(no problems)		(Cannot sit/stand at all)
	Does your pain affect your ability to lift overhead, grasp objects, or reach for things	0 (no problems)	1-9	10 (Cannot do at all)
6.	your ability to lift objects off the floor, bend, stoop or squat	0 (no problems)	1-9	10 (Cannot do at all)
7.	Does your pain affect your ability to walk or run	0 (No problems)	1-9	10 (Cannot walk)
8.	Has your income declined since your pain began?	0 (No decline)	1-9	10 (Lost all income)
9.	Do you have to take pain medication everyday to control your pain?	0 (No medication needed)	1-9	10 (On pain medication throughout the day)
10	Does your pain force you to see doctors much more than before your pain began?	0 (Never see doctors)	1-9	10 (See doctors weekly)
1	Does your pain interfere with your ability to see the people who are important to you as much as you would like?	0 (No problem)	1-9	10 (Never see them)
1.	Does your pain interfere with recreational activities or hobbies that are important to you?	0 (No interference)	1-9	10 (total interference)
1	Do you need the help of your family and friends to complete everyday tasks (including home and work) because of your pain?	0 (Never need help)	1-9	10 (Need help all the time)
1.		0 (No depression/tension)	1-9	10 (Severe depression/anxiety
1:		0 (No problems)	1-9	10 (severe problems)

### Total PDQ score

If patient gets 5 or more points in any domain, they will need documentation with supporting documents records. Supporting documentation-Doctor's prescription for pain medicine or hospital admission records, or +/-school or work absenteeism records etc. Imaging if available.

#### Points total of PDQ

No pain = 0-10Mild pain = 11-70Moderate pain = 71-100Severe pain = 101-130Extreme pain = 131-15

The conversion of Pain disability questionnaire score to disability grading is given in Table II below.

Conv	Table II rersion of Pain disability questionnaire	e points to the dis	ability score
	See the total points arrived from the questionnaire. See the related disability score for the patient PDQ point range. Only one pain disability score is given table to each patient, as per the below conversion table.	Patient PDQ Points from table 1	Disability score assignment to be added for patients
	No or minimal pain score = 0 to 10		0
	Mild pain = 11-70		2
	Moderate pain = 71-100		3
	Severe pain = 101-130		5
	Extreme pain =131-150		8

# Sub-committees for Review of Guidelines for Purpose of Assessing the Extent of Specified Disability in a person included under the Rights if Persons with Disabilities Act, 2016 (49 of 2016)

Under the esteemed guidance of Dr. Atul Goel, DGHS, following members worked for the revising of Assessment Guidelines for Disability-

- I. For Overall Chairperson for All the Sub- Committee: Dr. Sunita Mondal, Dir & Prof, Dept. of Physiology, LHMC & Associated Hospital
- II. For Overall Member Secretary for All the Sub- Committee: Dr. Rupali Roy, Assistant Director General, Dte.GHS
- III. Members from Dte.GHS: Dr. Anita Bali Vohra, Deputy Director General, Dte.GHS

Following sub-committees were constituted to revise the Assessment Guidelines for Disability-

S No	Composition	Committee Designation
1	Prof. Pankaj Verma	Chairperson
	HoD, Psychiatry, SJH, Delhi	
2	Dr. Mina Chandra	Member
	HoD, Psychiatry, ABVIMS & RMLH	
3	Dr. Smita Despande	Member
	Ex Psychiatrist RMLH, Advisor	
4	Dr. Manushree Gupta	Member
	Associate Prof. SJH, Delhi	
5	Ms. Pragati Pandey	Member
	Asst. Prof. NIMHR	
6	Dr. Rohit Verma	Member Secretary
	Asst. Prof. Department of Psychiatry, AIIMS,	
	Delhi	

1. Sub-Committee on Mental Illness

2. Sub-Committee on Locomotor Disability

S No	Composition	Committee Designation
1	Dr Sanjay Wadhwa	Chairperson
	Prof. & HoD, Dept. of PMR, AIIMS	
2	Dr. Ritu Mazumdar	Member
	HoD PMR, LHMC & KSCH	
3	Dr. B.D. Athani	Member
	Ex Spl. DGHS, Advisor,	
4	Dr. Satish Kumar	Member
	HoD Orthopedic, Dr. RMLH	
5	Dr. Shishir Chandan	Member
	Prof. Neurology, SJH,	
6	Dr. Desh Deepak	Member
	Consultant Respiratory Medicine	
7	Dr. Ajay Raj	Member

	Prof. Cardiology, Dr. RMLH	
8	Dr. Sameek Bhattacharya	Member
	Burn & Plastic, Dr RML Hospital	
9	Shri T.D Dhariyal	Member
	Former Deputy Chief Commissioner, GoI and State	
	Commissioner for PwD, Delhi	
10	Director	Member
	SVNIRTAR, Cuttack	
11	Dr, Suman Badhal	Member Secretary
	Prof, PMR SJH,	

### 3. Sub-Committee on Visual Impairment

SL.No.	Composition	Committee Designation
1	Dr. Ritu Arora	Chairperson
	Dir. Prof. Ophthalmology Dean,	
	Maulana Azad Medical College, New Delhi	
2	Dr. Sarita Beri	Co-Chairperson
	HoD Ophthalmology, LHMC & Asso. Hospital	-
3	Dr. Radhika Tandon	Member
	Prof. Ophthalmology, AIIMS	
4	Dr. Rajiv Garg	Member
	Ex DGHS, Adviser	
5		Member
	Director	
	NIEPVD, Uttarakhand	
6	Dr Anuj Mehta	Member Secretary
	Prof, Dept of Ophthalmology, Safdarjung Hospital	

## 4. Sub-Committee on Hearing Impairment

S. No.	Composition	Committee Designation
1	Dr. Arunbha Chakravrti Director & Prof, Dept. of ENT, LHMC	Chairperson
2	Dr. Isha Preet Tuli Prof. ENT, VMMC & SJH	Member
3	Director AYJNISHD, Mumbai	Member
4	Mr. Parbhakar Upadhyay Audio Metrician, Dept. of ENT, LHMC	Member Secretary

# 5. Sub-Committee on Developmental Disorder

S. No.	Composition	Committee Designation
1	Dr. Dr. Sheffali Gulati Prof. Child Neurology Division, Department of	Chairperson

	Pediatrics, AIIMS, Delhi	
2	Dr. Mina Chandra	Member
	HoD, Psychiatry, ABVIMS & RMLH	
3	Dr. Paul Russell	Member
	Professor & lead Consultant, CMC Vellore,	
	Tamilnadu	
4	Dr. Sharmila B. Mukharjee	Member
	Prof. Dept. of Pediatric, LHMC, Delhi	
5		Member
	Director, NIEPID, Secunderabad, Telangana	
6	Dr. Madhuri Kulkarni	Member
	Ex Head Dept. of Pediatrics, L.M.M. Medical	
	College, Maharashtra	
7	Dr. Vishal Sondhi	Member Secretary
	Prof. Department of Pediatrics, AFMC, Pune	

# 6. Sub-Committee on Blood Disorder

S. No.	Composition	Committee Designation
1	Dr. Tulika Seth	Chairperson
	Prof. Dept. of Hematology, AIIMS, Delhi	
2	Dr. Dipty Jain	Member
	Ex HoD, Dept of Pediatrics, GMC, Nagpur	
3	Dr. Cecil Ross	Member
	Prof. of Medicine and Hematology, St. Johns	
	Medical College Hospital, Bangalore	
4	Dr. Prantar Chakraborty	Member
	Consultant, Clinical Haematology, Vivekananda	
	Institute of Medical Sciences	
5	Shri TD Dhariyal	Member
	Former Deputy Chief Commissioner, GoI and State	
	Commissioner for PwD, Delhi	
6	Dr. Ritika Sud	Member
	Prof. Medicine LHMC, New Delhi	
7	Ms. Shobha Tuli	Member
	President Thalassemic Federation of India, New	
	Delhi	
8	Shri Gautam Dongre	Member
	Secretary, National Alliance of Sickle Cell Disease	
	NASCO	
9	Smt. Vinita Srivastava	Special Invitee
	Advisor, Tribal Health, Ministry of Tribal Affairs	
10	Dr. Amitabh Singh	Member Secretary
	Associate Professor, Pediatrics AIIMS, New Delhi	

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# 7. Sub-Committee for Chronic Neurological Disorder

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1	Dr. Sheffali Gulati Prof. Child Neurology Division, Dept. of Pediatric, AIIMS, Delhi	Chairperson
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3	Dr. Mina Chandra HoD, Psychiatry, Dr. RML Hospital	Member
4	Dr. Gagandeep Singh Prof & HoD, Neurology, Dayanand Medical College & Hospital, Ludhiana	Member
5	Dr. Shishir K. Chandan Sr. CMO Safdarjung Hospital, Delhi	Member
6	Dr. Anand Principal Consultant & Prof. Dr. RML Hospital	Member
7	Dr. Satish V. Khadilkar Dean, Medical Faculty, Bombay Hospital, Institute of Medical Science	Member
8	Col. Dr. Aparjita Gupta MD, Pediatric Neurology, Advance Centre for Pediatrics, Army Hospital (R&R)	Member Secretary

## 8. Sub-committee for Multiple Disorder

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3	Dr. Ajay Gupta	Member
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4	Dr. B.D. Athani	Member
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5	Dr. Satria Beri	Member
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6	Dr. Gautam Bir Singh	Member

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7	Dr. Alok Sud	Member
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8	Shri Shishir Chandan	Member
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9		Member
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11	Dr. Suvarna Alladi	Member
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12	Dr. Sharmila B. Mukherjee	Member Secretary
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