APPENDIX 1

Operational definition and examples of study measures

	Measures and Symbol	Definition	Example
Pre-Linguistic skills	Turns taken  Verbal turn	Turn-taking is an act that signifies that the sender and the receiver are exchanging communicative roles back and forth while sharing verbal or nonverbal information.	A child vocalizing a vowel on being asked if he or she is hungry would qualify to be a verbal turn
	Eye contact Eye contact Absent Eye contact Present	Eye contact in terms of the number of syllables for which eye contact was maintained including both the span of eye contact with the speaker and also for the eye contact with the object/toy.	A child looks at the parent while they talk.
	Autonomy  Autonomous Turn	Autonomy is the number of instances where a child initiated a conversation either with gestures or vocally.	While parent and child are playing, the child initiates a vocalization to get a toy that he/she wants.
Parental Roles	Helper	When a child has a hard time learning to communicate, his/her parents help them to make things easier for him/ her.	If a child has trouble recalling the name of a toy, parents immediately tell the name of the toy.
	Partner	Parents do not make communication goals very obvious but they take optimum communicative turns	Parent and child are play partners and engage in communication during the play

		and be supportive	while building a
		partners in facilitating	castle.
		desirable	
		communication patterns	
		in the child.	
	Cheerleader	Parent rewards child's	The parent uses
		every single attempt to	descriptive praise
		communicate.	or a natural
			reinforcer (Eg:
			Well Done! Good
			Job!) every time
			the child attempts
			to communicate.
	Do Not Disturb	In the Do-Not-Disturb	A child has been
		role, since the child	left to watch
		lacks interest in	cartoons on TV
		interaction and hence	and the parent
		rarely demands parental	does not attempt to
		attention, parents do not	communicate with
		take optimum efforts in	the child at all.
		initiating any sort of	
		communication with	
		their children.	
Communication	Own Agenda	A child at the Own	A child gets
Stages		Agenda stage may seem	excited when
		to want to play alone	parents are getting
		and may appear	ready to go out,
		uninterested in the	child runs to open
		people around him/her.	the doorknob and
		He/she does not yet	starts crying due to
		understand	failure in opening
		that he/she can affect	the knob. The
		other people by sending	child continues to
		a message directly to	get frustrated and
		them.	doesn't seek any
			assistance from
			parents.
	Requester	A child at the Requester	A child wanting to
		Stage is just beginning	go out with
		to realize that his/her	parents, pulls
		actions can affect	parents towards
		people. By pulling or	the doorknob to

	Early Communicator	leading a parent, he/she can ask them for things he/she needs or enjoys.  The Early Communicator has started to use specific gestures, sounds, pictures or words to ask for things that he wants, like requesting favourite foods or toys. He/she may still communicate mainly to ask others to do	express his/her desire as he/she understands the inability to independently open the door.  A child wanting to go out with parents, would go near the door and say "open".
		things for him/her, but he/she has also figured out that he/she can use the same form of communication consistently in certain situations.	
	Partner	Children at this stage can use verbal or other modes of communication to communicate with their communication partners. Child would be able to independently carry out short conversations.	Parents wishing to go to the mall, a child would run and say 'let's go malleat candy'.
Play Behaviours	Exploratory	Child plays with toys mostly using his/her senses.	Child may engage in mouthing of a car or toy.
	Functional	Interacts and plays with a toy or object according to its specific function.	Shaking a rattle, moving a car on the floor.

Constructive	Manipulation of objects	Constructing a
	to construct or create	tower with Legos.
	something.	
Symbolic	Pretending acts or	Using a TV remote
	complex form of	as a telephone.
	representation with or	
	without the symbolic	
	object.	

Sample of transcription of the parent-child interaction with CWRELD			
Parent: 💙	νəυ vəυ enθ∧ða ↓	nın m∧neı eli: ↓	
		<u> </u>	
Child: æ	æ	æ	

Sample of transcription of the parent-child interaction with CWTD				
	Parent: jei kja her	$\downarrow$	dresız heı jeı	1
Child:	tu:θ heɪ		л лт kja hei	nлı рлθа merkəυ