

# Appendix 3: Visual Assessment Scale CVI-PIMD filling in form

Cerebral Visual Impairment in persons with Profound Intellectual and Multiple Disabilities

Name	
Age	
Observation dates	
Observer(s) name and position	

Level 1 -Total deficit of vision/ Blindness	yes	no	other/n.a.
<b>1.1</b> No reaction to visual stimuli ever			
Additional information:			

Level 2 -Profound visual impairment/ Functional Blindness	yes	no	other/n.a.
<b>2.1</b> Reacts to light-stimuli in a darkened room by targeted looking behaviour			
<b>2.2</b> Reacts to stilling or looking in one general direction by strong visual stimuli in a normally lit room			
<b>General looking behaviour and visual skills:</b>			
<b>2.3</b> Very short fixation (less than 1 count)			
<b>2.4</b> Minimal ability for visual pursuit (not always occurring)			
Additional information:			

Level 3 -Severe impairment/ Exogenous attention system	yes	no	other/n.a.
<b>3.1</b> Reacts to strong visual stimuli in broad daylight, with targeted visual behaviour			
<b>3.2</b> Can perceive a visual stimulus when it is offered in the field of vision, does not actively search for visual stimuli			
<b>3.3</b> Shows visual attention in broad daylight when triggered by:			
A. Moving objects or persons			
B. An auditory stimulus			
<b>3.4</b> Makes eye contact incidentally			
<b>3.5</b> Is able to show preference for certain stimuli, without clear indication of recognition.			
<b>General looking behaviour and visual skills:</b>			
<b>3.6</b> Range of vision is limited, up to arm's length			
<b>3.7</b> Short fixation (1-2 counts)			
<b>3.8</b> Limited visual pursuit			
Additional information:			

<b>Level 4 – Moderate impairment/ Basic perception and active visual attention system</b>	<b>yes</b>	<b>no</b>	<b>other/n.a.</b>
<b>4.1</b> Actively looks for visual stimuli (that are of interest)			
<b>4.2</b> Looks at objects from daily life in an interested way, without attention or hardly any attention to details			
<b>4.3</b> Visually follows a toy that falls to the ground (object permanence)			
<b>Recognition:</b>			
<b>4.4</b> Recognises 1 to 10 daily objects, e.g. cup, cleaning cloth or spoon and reacts adequately, without auditory or tactile input			
<b>4.5</b> Recognises familiar faces without auditory input, (heightened alertness, smiling, reaching, etc.)			
<b>4.6</b> Recognises (favourite) toy, without auditory input and reacts adequately			
<b>4.7</b> Recognises areas when, more or less by accident, entering them (basic spatial orientation)			
<b>General looking behaviour and visual skills:</b>			
<b>4.8</b> Looking into a distance to approximately 1 meter, moving persons are followed up to 2-3 meters			
<b>4.9</b> Visual pursuit is present			
<b>4.10</b> Shifting gaze is present			
<b>4.11</b> Makes eye contact regularly			
Additional information:			

<b>Level 5 – Mild impairment/extended visual recognition</b>	<b>yes</b>	<b>no</b>	<b>other/n.a.</b>
<b>5.1</b> Visually alert: actively monitors the surroundings visually			
<b>5.2</b> Some attention for details, e.g. sees crumbs on the table			
<b>5.3</b> Seeks eye contact at a distance (beyond 50 cm)			
<b>Visual recognition /selective attention</b>			
<b>5.4</b> Recognises over 10 objects			
<b>5.5</b> Recognises objects and familiar persons in photographs that are not too crowded			
<b>5.6</b> Searches for a certain object among a limited amount of objects			
<b>5.7</b> Is able to orient him/herself in familiar surroundings			
<b>General looking behaviour and visual skills:</b>			
<b>5.8</b> Looking distance is up to 2-3 meters, visual acuity permitting			
<b>5.9</b> Uses vision in communication (reacts to mimics and gestures)			
<b>5.10</b> Tries to get an overview while looking actively around a room			
<b>5.11</b> Fixation, pursuit and shifting gaze are well developed, scanning may have started			
Additional information:			

<b>Level 6 –No impairment /Normal visual functioning</b> (appropriate for developmental age of 24 months)	<b>yes</b>	<b>no</b>	<b>other/n.a.</b>
<b>Visual recognition/selective attention</b>			
<b>6.1</b> Actively looks for favourite toys that are not visible (sign of visual memory)			
<b>6.2</b> When an object is pointed out in the distance the person will see it			
<b>6.3</b> Understanding of visual closure (e.g. recognises a bicycle when only seeing the handlebar)			
<b>6.4</b> Shows joint attention. (e.g. makes eye contact and shows a toy, points out at an object or brings it to show)			
<b>6.5</b> Imitating behaviour (e.g. waving, smiling, crinkling his/her nose)			
<b>6.6</b> Understands objects/persons/actions in pictograms (PECs/PCS)			
<b>6.7</b> Is interested in detail (e.g. in richly illustrated books). Is able to look for an object quickly (visual scanning)			
Additional information:			

<b>CVI-characteristics</b>	<b>yes</b>	<b>no</b>	<b>other/n.a.</b>
1. No visual curiosity			
2. Looking away when reaching for or handling objects			
3. Short and fleeting visual behaviour			
4. Variable visual behaviour			
5. Inability to use vision simultaneously with other senses, like hearing or touching			
6. Looking is tiring			
7. Familiarity gives better visual behaviour and/or recognition			
8. Prefers auditory over visual			
9. Staring into light sources			
<b>Total number of CVI-characteristics</b>			

<b>Level of visual functioning</b>	<b>Total number of characteristics</b>	<b>Diagnosis</b>	
2 and 3	3-9	Severe CVI	
4-6	6-9	Severe CVI	
4-6	3-5	Mild CVI	
4-6	0-2	No CVI	

Level of visual functioning \ Total number char. of CVI	Total number char. of CVI									
	0	1	2	3	4	5	6	7	8	9
2										
3										
4										
5										
6										