

## HINE – Hammersmith Infant Neurological Examination

This motor function assessment tool is a simple method to measure motor skills in infants age 2 – 24 months with SMA. Section 2, the motor milestones part of the HINE, measures 8 aspects of motor ability / 'function': voluntary grasp, ability to kick, head control, rolling, sitting, crawling, standing, and walking.

- For each function, increased levels of ability go from left to right
- At a physio assessment, an infant is assessed for where they are on the scale
- At the next assessment, for each function, each transition to the next stage of ability scores 1 point
- The total HINE score is the sum of points from each function. It can range from 0 to 2

The table below shows a simplified summary:

Motor Function	Milestone Progression Score				
	0	1	2	3	4
Voluntary grasp	No grasp	Uses whole hand	Index finger and thumb but immature grasp	Picks up small objects between thumb & forefinger (Pincer grasp)	
Ability to kick (in supine position)	No kicking	Kicks horizontally; legs don't lift	Kicks Upwards (vertical)	Touches leg	Touches toes
Head control	Unable to maintain head upright	Head wobbles	Head upright all the time		
Rolling	No rolling	Rolling to side	Rolls from flat on back to face upwards	Rolls from face upwards to being on back	
Sitting	Can't sit	Sits with support at hips	Sits Propped	Stable sitting	Can pivot (rotate while sitting)
Crawling	Doesn't lift head	Can hold weight on elbows	Can hold weight on outstretched hands	Crawls when flat on tummy	Crawls on hands and knees
Standing	Doesn't support weight	Supports weight	Stands with support	Stands without aids or help	
Walking	No walking	Bounces while standing	Cruises (holds on)	Walks independently	

Improvement

