What is Cerebral Palsy?

Cerebral palsy is a physical disability that affects movement and posture.

It is the most common physical disability in childhood.

You can help advance our knowledge and research into cerebral palsy by joining a Cerebral Palsy Register. Find out more at http://en.worldcpday.org/cpregisters

17 million people with cerebral palsy worldwide

MOTOR TYPES



DYSKINETIC: 6%. Characterised by involuntary movements. Arises from Basal Ganglia damage.

> MIXED TYPES: Combination damage

ATAXIC: 6%

Characterised by shaky movements. Affects balance and sense of positioning in space. Arises from Cerebellum damage.

PARTS OF THE BODY

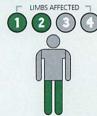
Cerebral palsy can affect different parts of the body

QUADRIPLEGIA/ BILATERAL: LIMBS AFFECTED 3



Both arms and legs are affected. The muscles of the trunk, face and mouth are often also affected.

DIPLEGIA/



Both legs are affected. The arms may be affected to a

HEMIPLEGIA/



One side of the body (one arm and one leg) is affected

GROSS MOTOR SKILLS

The gross motor skills (e.g. sitting and walking) of children and young people with cerebral palsy can be categorised into 5 different levels using a tool called the Gross Motor Function Classification System (GMFCS) developed by CanChild in Canada.





GMFCS Level 1



GMFCS Level II

MANUAL ABILITY

At least two thirds of children with cerebral palsy will have movement difficulties affecting one or both arms. Almost every daily activity can be impacted.













GMFCS Level III



GMFCS Level IV



GMFCS Level V

Source: Professor H K Graham, Royal Children's Hospital, Melbourne, Australia

ASSOCIATED IMPAIRMENTS

Children with cerebral palsy may also have a range of physical and cognitive impairments.

1 in 3 is unable to walk



1 in 4 is unable to talk



3 in 4 experience pain



1 in 4 has epilepsy



1 in 4 has a behaviour

disorder



1 in 2 has an intellectual

impairment



1 in 10

vision

impairment



1 in 4 has bladder

control problems



1 in 5 has sleep disorder



1 in 5 has saliva control

problems



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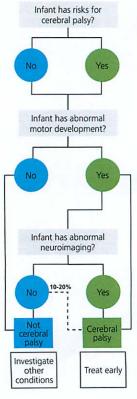


Cerebral Palsy

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DIAGNOSIS



Risks For Cerebral Palsy

Risk Factor	CP Risk
Maternal Risks (thyroid, pre-eclampinfection, IUGR, placental abnorma	
Born Premature	
 <28 weeks 	10.0%
• 28-31 weeks	5.0%
• 31-37 weeks	0.7%
Term Born	
 Encephalopathy 	12.0%
 Healthy, no known risks 	0.1%

Assessing Motor Development

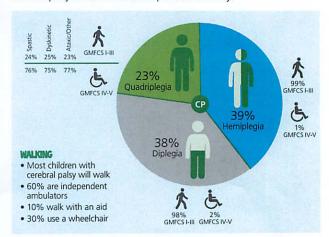
Age: <20 weeks (corrected)	Age 6-12 months		
General Movements Assessment. 95% predictive.	Developmental Assessment of Young Children (DAYC). 83% predictive.		
Hammersmith Infant Neurological Assessment (HINE). Helps predict severity.	Hammersmith Infant Neurological Assessment (HINE). 90% predictive.		

Neuroimaging

Abnormal Neuroimaging	% of all CP	
Periventricular white matter injury	19%	
Cerebral malformation	11%	
• CVA	11%	
Grey matter injury	22%	
Intracranial haemorrhage	3%	
Infection	2%	
Non-specific	19%	
Normal	13%	

PROGNOSIS

Cerebral palsy can affect different parts of the body:





LIFE- LONG

Cerebral palsy is a life long disability. Disability may increase with age. and ageing may occur earlier.



PAIN, BEHAVIOUR AND SLEEP DISORDERS

in people with cerebral palsy are under-recognised. Assess and treat.



SEVERITY

Predictions of severity are most accurate at 2 years of age.



TREATMENT

Without rehabilitation and orthopaedic management, a person with cerebral palsy can deteriorate physically.



P is almost always acco	mpanied by a number of as	sociated conditions and th	ese can be as disabling as	the physical condition.	
PAIN	INTELLECTUAL DISABILITY	NON-AMBULANT	HIP DISPLACEMENT	NON-VERBAL	EPILEPSY
4	BIC	E			0
3 in 4	1 in 2	1 in 3	1 in 3	1 in 4	1 in 4
Freat to prevent sleep & behavioural disorders	Poorer prognosis for ambulation, continence, academics	Independent sitting at 2yrs predicts ambulation	6-12 monthly hip surveillance using x-ray	Augment speech early	Seizures will resolve for 10-20%
BEHAVIOUR DISORDER	BLADDER INCONTINENCE	SLEEP DISORDER	BLINDNESS	NON-ORAL FEEDING	DEAFNESS
(3)			(V) (V)		3
1 in 4	1 in 4	1 in 5	1 in 10	1 in 15	1 in 25
Treat early & ensure pain is managed	Conduct investigations & allow more time	Conduct investigations & ensure pain is managed	Assess early & accommodate	Assess swallow safety & monitor growth	Assess early & accommodate

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