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International Prader-Willi Syndrome Diagnostic Testing Initiative



Clinical data collection form

Patient:						
Last name:				First name:		
Last name		0		First name		
Date of birth:		Sex:		Country:		
DD/MM/YYYY			Female	Country		
Referring medical doctor	r (the resu	ults will be sent t	o this address:			
Last name:				First name:		
Last name				First name		
Institution:						
Institution Address:						
Address						
Zip/Post code:		City:		Country:		
Zip/Post code		City		Country		
Tel: Tel.				<i>E-mail:</i> E-mail		
Clinical data:						
Clinical data: Current age:	Current	weight:	Current weight percentile:	Current height:	Current height percentile:	
Years		kg		cm		
□ Hypotonia at birth with		Days/weeks of tube feeding				
poor suck						
🗆 Hyperphagia		Age when noted				
(excessive interest in		Self control of food intake □Yes □No				
food and eating)		Age when weight gain became a problem				
☐ Hypogonadism		Males: History or presence of cryptorchism □Yes □No Small genitals for age □Yes □No Delayed puberty □Yes □No (Note: early adrenarche is prepubertal) Females: Small labia as newborn □Yes □No Age at menarche Menstruation monthly □Yes □No				
🗆 Global developn	nental					
delay		Brief description				
Cognitive impairment		Brief description				
Behavioural problems		Brief description				
(tantrums, controlling)						
\Box Other symptoms		Brief description				
, , , , , , , , , , , , , , , , , , ,		I				
Previous testing:	F / I	[
\Box FISH analysis of the		Results				
15q11.2 region						
□ DNA methylation assessment (MS-MLPA		Results				
or MS-PCR)						
\Box Other tests (e.g.						
chromosomal		Results				
microarray)						

Major findings in Prader-Willi syndrome:

Profound neonatal hypotonia, weak suck, weak cry, first weeks. Tube feeding needed Hyperphagia starting at age 1-6 years, causing weight gain and obesity if food not controlled by others Small genitals, pubertal delay Short stature for family and no pubertal height spurt if not treated with growth hormone and/or sex steroids Global developmental delay

Other frequent findings:

Decreased foetal movement Infantile lethargy Hip dysplasia Behavioural problems after infancy Skin picking Sleep apnoea Small hands and feet (if not treated with growth hormone) Scoliosis Thick viscous saliva Esotropia, myopia Speech articulation defects Concrete thinking, strong visual memory

Age at assessment	Features Sufficient to Prompt DNA Testing			
Birth to 2 years	Hypotonia that gradually improves, poor suck and appetite the first weeks to months			
2-6 years	Delayed motor milestones, hypotonia decreasing, a history of poor suck			
	Global developmental delay			
6-12 years	Delayed motor milestones, a history of poor suck first weeks/months			
	Global developmental delay			
	Excessive eating (hyperphagia; obsession with food) with central obesity if uncontrolled			
>13 years	Delayed muscle milestones, a history of hypotonia and poor suck first year			
	Cognitive impairment, usually mild to moderate intellectual disability			
	Excessive drive to eat (hyperphagia; obsession with food) with central obesity if uncontrolled			
	Hypogonadism			
	Behaviour problems (including temper tantrums and obsessive compulsive features)			

"Table modified from Gunay-Aygun et al., 2001."

Please note that the features described in this table are not the only ones present at the various ages but in their absence the diagnosis of Prader-Willi syndrome is highly unlikely. The inclusion criteria are more relaxed for younger patients to ensure that all PWS cases are tested. As an example, hypothalamic hypogonadism is observed as genital hypoplasia at all ages in PWS but in younger individuals it is not included as a required criteria.

References:

Driscoll DJ, Miller JL, Cassidy SB. Prader-Willi Syndrome. [Updated 2024 Dec 5]. In: Adam MP, Mirzaa GM, Pagon RA, et al., editors. GeneReviews® [Internet]. Seattle (WA): University of Washington, Seattle; 1993-2025. Available from: https://www.ncbi.nlm.nih.gov/books/NBK1330/

Gunay-Aygun M, Schwartz S, Heeger S, O'Riordan MA, Cassidy SB. Pediatrics. 2001 Nov;108(5):E92. *The changing purpose of Prader-Willi syndrome clinical diagnostic criteria and proposed revised criteria.* doi: 10.1542/peds.108.5.e92. PMID: 11694676.