



Microdeletions are generally accidental and not inherited from parents (de novo).

Detection rates vary from 87.5% to 100%.



Syndromes	Definition	Prevalence	Description	Management	PPV*1
22q11.2	Chromosomal	Approximately	Great variability in expression and severity. Some people will have	Multidisciplinary and	89.3%
deletion	abnormality	1/2000 to	severe features while others will be diagnosed late due to a mild	variable management	
(DiGeorge	caused by loss of	1/4000 live	form.	according to presentation	
syndrome)	a small fragment	births (L.B.)	The main charecteristics	and characteristics	
	of chromosome		-Heart defects		
	22		- Facial dysmorphia		
			- Delayed psychomotor development with/without intellectual		
			disability		
			- Behavioural disorder		
			- Speech difficulties related to soft palate dysfunction		
			- Hypocalcemia		
			- Immunodeficiency		
5p monosomy	Chromosomal	Approximately	Wide range or characteristics :	Multidisciplinary	66.7%
(Cri du Chat	abnormality	1/15 000 to 1/45	- Typical infant cry	management: treating	
syndrome)	caused by partial	000 L.B.; affects	- Facial dysmorphia	professional, specialist	
	or total loss of	females more	- Global neurodevelopmental disorder	physicians, paramedical	
	the short arm of	frequently than	- Apnea episodes with cyanosis	professionals	
	chromosome 5	males	- Suckling difficulties in neonatal period		
			- Small weight for gestational age / IUGR		
			- Less frequent complications: cardiac, neurological, renal, other		
1p36 deletion	Chromosomal	Approximately	- Facial dysmorphia	Multidisciplinary	8.1%
	abnormality	1/4000 to 1/10	- Hypotonia	management: treating	
	caused by partial	000 L.B.	- Developmental delay	professional, specialist	
	loss of a segment		- Intellectual disability	physicians, paramedical	
	of chromosome 1		- Seizures	professionals	
			- Heart defects		
			- Absence or delay of language		
			- IUGR		



4p- monosomy (Wolf- Hirschhorn syndrome)	Chromosomal abnormality caused by loss of a segment of the short arm of chromosome 4	Approximately 1/20 000 to 1/50 000 L.B. Affects females more frequently than males	 IUGR and low weight gain at birth Facial dysmorphia Skeletal anomalies Hypotonia Severe developmental delay Seizures Cardiac, ophthalmological, auditory, dental anomalies 	Multidisciplinary management: treating professional, specialist physicians, paramedical professionals	14.8%
Angelman Syndrome	Chromosomal abnormality caused by the alteration or absence of one or more gene(s) on chromosome 15	Approximately 1/12 000 à 1/20 000 L.B.	Features always present Overall delay in acquisitions Generally severe intellectual disability Generally severe language disorder Motor development disorder Characteristic social behaviour: jovial, excessive laughter, agitated Common manifestations Seizures Reduced growth of the cranial perimeter resulting in microcephaly Other features may be present less frequently	Multidisciplinary management: treating professional, specialist physicians, paramedical professionals	20%
Prader-Willi syndrome	Chromosomal abnormality caused by the alteration of certain genes on chromosome 15	Approximately 1/20 000 to 1/25 000 L.B.	Characteristics from birth to 2 years – Significant hypotonia - Trouble sucking/swallowing - Delayed acquisition of language and walking - Respiratory infections - Speech and chewing problems - Characteristic facial features Caractéristics after 2 years - Hyperphagia (excessive appetite) leading to overweight and obesity. - Underdevelopment of the sexual organs - Moderate and variable intellectual disability - Learning difficulties and language disorders - Behavioural disorders (temper tantrums)	Occupational therapy, physiotherapy, diet, growth hormones, endocrinology and other medical and paramedical specialists	20%