

	Edward's Syndrome (Trisomy 18)	Fetal Alcohol Syndrome	Hydrocephalus
Description	Syndrome associated with presence of extra chromosome 18.	A series of mental and physical birth defects that can include mental retardation, growth deficiencies, CNS dysfunction, craniofacial abnormalities, and behavioral maladjustments, that result in the infant of a woman who ingested alcohol during her pregnancy.	Excessive retention/development of cerebrospinal fluid within the ventricles of the brain.
Etiology		Ingestion of alcohol by the mother during her pregnancy.	<ul style="list-style-type: none"> • Obstruction of cerebrospinal fluid flow • Over-secretion of cerebrospinal fluid
Incidence	1 in 5,000 live births	Between .26 and 2.29 per 1,000 live births	1 individual out of every 1000
Signs/Symptoms	<ul style="list-style-type: none"> • Low birth weight • Growth deficiency • Prominent occiput • Mental retardation • Low set ears • Malformed ears • Micrognathia • Narrow palate • Congenital heart disease • Hernias • Short sternums • Hypertonia • Clenched hands • Underdeveloped fingernails 	<ul style="list-style-type: none"> • Neurological <ul style="list-style-type: none"> ○ Cerebral palsy ○ Poor muscle tone ○ Seizures ○ Nerve damage ○ Rigidity ○ Tremors ○ High pain tolerance • Cognitive <ul style="list-style-type: none"> ○ Poor language development ○ Memory difficulties ○ Mental retardation ○ Learning disabilities ○ Gaps in association ○ Inflexibility of thought • Behavioral <ul style="list-style-type: none"> ○ Hyperactivity ○ Attention deficit disorder ○ Impulsivity ○ Difficulty with empathy ○ Self-injurious ○ Perseveration ○ Difficulty generalizing information ○ Difficulty translating information from one sense into appropriate behavior • Sensory <ul style="list-style-type: none"> ○ Hearing impairments ○ Vision impairments ○ Tactile defensiveness • Craniofacial <ul style="list-style-type: none"> ○ Microcephaly ○ Low nasal bridge ○ Small eyes ○ Flat midface ○ Drooping eyelids ○ Thin upper lip ○ Micrognathia ○ Dental deformities ○ Cleft palate • Other <ul style="list-style-type: none"> ○ Respiratory problems ○ Growth deficiencies ○ Heart defects ○ Kidney defects ○ Immune system malfunctioning 	<ul style="list-style-type: none"> • Macrocephalous: enlargement of the head • Muscle spasticity/spasm • Mental retardation • Growth retardation • Incontinent of bowel and bladder • Nystagmus • Loss of coordination
Swallowing Manifestations	<ul style="list-style-type: none"> • Poor suck • Poor chewing/mastication • Atlanto-axial deformity • Oral motor incoordination 	<ul style="list-style-type: none"> • Poor suck • Failure to thrive • Oral aversion • Impaired oral bolus formation/control/transit • Impaired suck/swallow/breathe synchrony • Anterior tongue rest with anterior open bite • Altered occlusion • Food refusal • Tongue thrust • Tongue retraction • Lip retraction • Tactile hyper- or hypo-sensitivity 	<ul style="list-style-type: none"> • Impaired ability to initiate and maintain suck • Tongue/lip/jaw spasticity/flaccidity • Drooling • Exaggerated gag reflex • Pseudobulbar palsy