

# GM1 Gangliosidosis Type 1 (Severe Infantile Type)

(Caffey Pseudo-Hurler Syndrome, Familial Neuorvisceral Lipidosis)

## Main Features

- Infancy onset neurodegeneration and skeletal abnormalities
- Hypotonia, seizures, dysmorphism, organomegaly
- Rapid psychomotor deterioration starting around 6 months old

## Eye Findings

- [Cherry-red spot \(50%\)](#)
- Nystagmus
- Tortuous conjunctival vessels with saccular aneurysms
- Papilledema
- Optic atrophy
- Corneal clouding- rare
- High Myopia

## Etiology

- Defect in  $\beta$ -galactosidase-1, all three isoenzymes are deficient (A,B and C)
- Diagnosis confirmed by assay of  $\beta$ -galactosidase in peripheral leukocytes
- Prenatal diagnosis on cultured amniotic fluid cells
- Gene map locus: 3p21.33
- Autosomal recessive

## Other Findings

- Facial and peripheral edema
- Kyphosis, joint limitation, thick wrists, contractures of elbows and knees, claw hand
- Congestive heart failure, hepatosplenomegaly
- Death usually in early infancy (by age 2)

## References

- Pediatric Ophthalmology and Strabismus eds. Wright KW, Spiegel PH. 2nd ed. p. 971,

1039

- [OMIM](#)

[syndrome](#)

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