

# Diencephalic syndrome

Diencephalic syndrome, diencephalic syndrome of emaciation or Russell's syndrome is a rare neurological disorder seen in infants and children and characterised by failure to thrive and severe emaciation despite normal or slightly decreased caloric intake, locomotor hyperactivity, and euphoria. Less commonly it may involve skin pallor without anaemia, hypoglycaemia, and hypotension.

The syndrome is a rare but potentially fatal cause of failure to thrive in children. Failure to thrive presents on average at 7 months of age.

Of note the syndrome is not associated with developmental delay. There may be associated hydrocephalus.

[Diencephalic syndrome](#) was first described by Russell in [1951](#).

It is usually caused by a brain tumor such as a [low-grade glioma](#) or astrocytoma located in the hypothalamic-optic chiasmatic region.

It is not yet understood how diencephalic syndrome causes the effects on appetite and metabolism which are seen, though inappropriately high growth hormone release has been proposed, as has excessive  $\beta$ -lipotropin secretion and overall increased metabolic demand.

It is treated with chemotherapy, surgery or radiotherapy.

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