|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Authors and year** | **Country** | **Type** | **N cases** | **Evolution of CM-1** | **Diagnosis of GHD** | **Age at rhGH start** | **Dosage of rhGH** | **Time between rhGH and symptoms' onset** | **Surgical intervention** | **OCEBM Levels of Evidence** |
| K. Fujita et al. (1992) **(28)** | Japan | CR | 1 | Worsening | Yes | 11y, 9 m | N.A. | 7 m | Decompression of occipital fossa | 4 |
| Takakuwa S. et al (1996) **(29)** | Japan | CR | 1 | Worsening | Yes (positive test) | 10y, 2 m | 0.5 U/kg/die | 7 m | no | 4 |
| Antonini S.R. et al (2007) **(30)** | Brazil | CR | 1 | Worsening | Yes (positive test) + GH1 gene deletion | 2y, 2m | 0.23 mg/kg/week | 2 y, 2m | Endoscopic third ventriculostomy | 4 |
| Murphy R. L. (2007) **(8)** | USA | CR | 1 | Unchanged | Yes (positive test) | N.A | N.A. | N.A. | no | 4 |
| Iughetti L. et al (2008) **(24)** | Italy | CR | 2 | Unchanged | GH1 gene deletion | 1st case:15y, 7m;  2case:5 m. | 1st case:0.21 mg/kg/week; 2nd case:0.23 mg/kg/die | N.A. | no | 4 |
| Hilal L. et al (2008) **(25)** | Morocco | CR | 1 | Unchanged | Mutation GHRHr gene | 11y,6m | N.A. | N.A. | no | 4 |
| Gupta A. (2008) **(18)** | Canada | CR | 1 | Resolution | Yes (positive test) | 9y | N.A. | N.A. | no | 4 |
| O’Grady M.J. (2011) **(26)** | Ireland | CR | 1 | Worsening | Yes (positive test) | 13y | 0.024 mg/kg/die | 2 w | Neurosurgical review and ventriculoperitoneal shunt | 4 |
| Capalbo D. et al (2013) **(23)** | Italy | CR | 1 | Unchanged | Noonan-like Syndrome | 9 y | 0.04 mg/kg/die | N.A. | no | 4 |
| Naftel R.P. (2013) **(27)** | USA | CR | 2 | Worsening | N.A. | 1st case:4y 2nd case: 5y | N.A. | 1st case:6 m  2nd case: 9m | no | 4 |
| Marzuillo P. el al (2013) **(22)** | Italy | CR | 1 | Unchanged | Rubeinstein-Taybe Syndrome (positive test) | 11 y | N.A. | N.A. | no | 4 |
| Mori T. et al (2018) **(31)** | Japan | CR | 1 | Worsening | Yes (positive test) | 10y, 4 m | 0.35 mg/kg/week | 2 y | Decompression of occipital fossa | 4 |
| Ballard H.et al (2020) **(32)** | USA | CS | 14 | Resolution (4) Worsening (6) Unchanged (1)  Improvement (3) | Yes (positive test) | N.A. | N.A. | N.A. | no | 4 |
| Mori T. et al (2021) **(19)** | Japan | CR | 1 | Improvement | Turner Syndrome | 1 y, 8 m | 0.35 mg/kg/week | N.A. | no | 4 |

*CR: Case Report, CS: Case Series, N.A: Not Available.*