

WHAT IS HYPOCHONDROPLASIA?

Hypochondroplasia
is a **RARE**, autosomal dominant
skeletal dysplasia¹



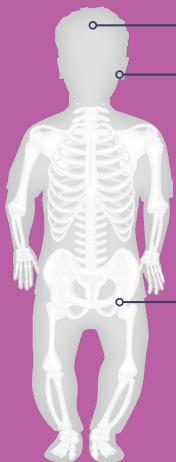
Estimated prevalence of
1 in 15,000-40,000¹⁻³

(estimates vary and the
condition is often underdiagnosed)

Associated with **impaired QOL**,
most notably in physical and social domains

CLINICAL FEATURES³

- Short stature
- Stocky build
- Macrocephaly
- Joint laxity
- Rhizomelia or mesomelia
- Broad, short hands and feet
- Limited elbow extension



MULTISYSTEM COMPLICATIONS^{4,5}

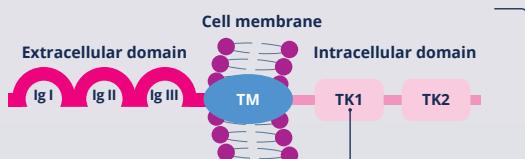
- Otolaryngologic**
Otitis media
Conductive hearing loss
Obstructive sleep apnea
- Skeletal**
Genu varum
Scoliosis
Lumbar lordosis
Spinal stenosis

- Neurological**
Neurological disorders (eg epilepsy)
Neurocognitive issues
Intellectual disability
Hydrocephalus

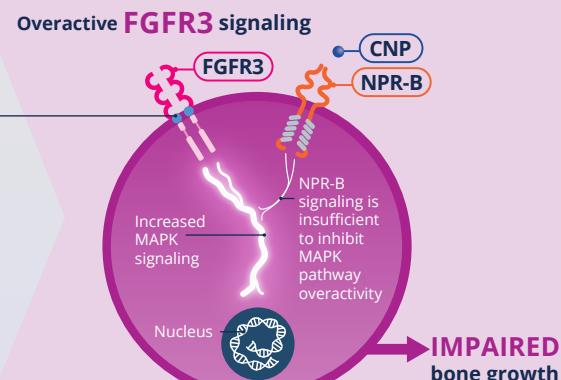
Individuals may
present with highly
variable features
and complications.

PATHOPHYSIOLOGY⁶⁻⁹

Hypochondroplasia
is caused by
gain-of-function
variants in **FGFR3**
that lead to an imbalance
between the FGF/FGFR3
and CNP/NPR-B
signaling pathways^{6,7}



Asn540Lys (N540K mutation)
can be
~70%
of individuals with hypochondroplasia^{7,8}



IgI, IgII, IgIII, immunoglobulin-like domains; TK, tyrosine kinase domains; TM, transmembrane domain

DIAGNOSIS



GENETIC TESTING for pathogenic **FGFR3** VARIANTS³

Help shorten the diagnostic journey
with no-cost gene panel testing

CLINICAL and RADIOLOGIC evaluation³

DIAGNOSTIC CHALLENGES^{3,7}

- Heterogeneous presentations
- Delayed recognition
- Subtle clinical features
- Lack of consensus on diagnostic criteria
- Overlap with other skeletal conditions