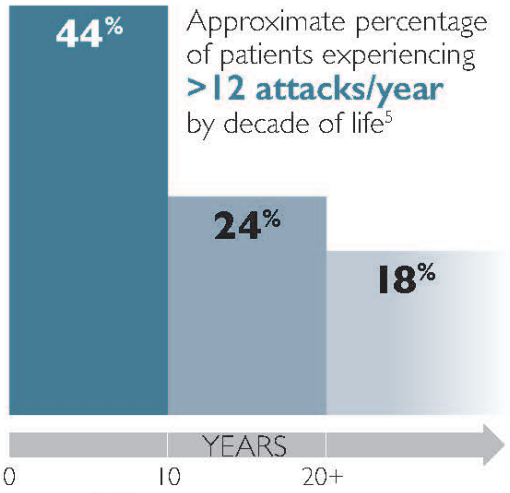
MKD/HIDS

Mevalonate kinase deficiency (MKD), also known as hyperimmunoglobulin D syndrome (HIDS), is an inherited disorder caused by a mutation of the mevalonate kinase gene.[1]

MKD/HIDS

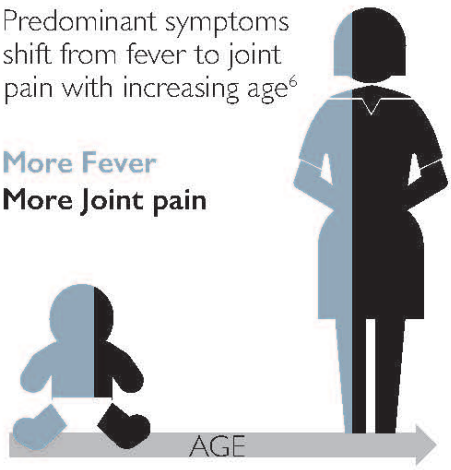
- Marked by recurrent fever and inflammatory symptoms (eg, swollen glands or arthritis)[1,2]
- Symptoms are typically most severe in childhood, but still continue in adulthood[3]
- **~104 cases** registered in 2011; **>90%** from Western Europe[4]

PHYSICAL DISTRESS



Approximate percentage of patients experiencing **>12 attacks/year** by decade of life[5]

Predominant symptoms shift from fever to joint pain with increasing age[6]



SOCIAL IMPACT

- Children may miss social activities, and may not be able to participate in sports[3]

"I've planned [to attend] concerts, can't go...I was supposed to go....to Spain; couldn't go...because I'd been ill the week before and had no energy to go." **–34-year-old patient**[3]

- Adults rely more on family and others, creating social/emotional strain[3]

EMOTIONAL BURDEN

- Sadness at all ages about feeling ill and missing activities[3]
- Varying levels of understanding and sympathy from family, friends, and co-workers[3]

DIAGNOSTIC DELAY

Average delay from symptom onset to correct diagnosis

PRACTICAL TOLL

- Approximately **46%** said their disease delayed their education[5]

- Caregivers of a child with **MKD/HIDS** may need to change jobs in order to care for them[3]

- Nearly **35%** of patients reported that their disease contributed to discharge from their jobs[5]

"They were only a small company…they were understanding at first, but when I had a bad couple of months they got annoyed. HIDS was a factor in me losing my apprenticeship."

–23-year-old patient[3]

NOVARTIS

1. van der Hilst JC, et al. *Curr Rheumatol Rep.* 2010;12:101-7. **2.** Simon A, et al. *Clin Pharmacol Ther.* 2004;75(5):476-83. **3.** Dandekar P, et al. Poster 24. ISSAID 2015 (30 September–03 October), Dresden, Germany. **4.** Toplak N, et al. *Ann Rheum Dis.* 2012;71:1177-82. **5.** van der Hilst JC, et al. *Medicine (Baltimore).* 2008;87:301-10. **6.** Novartis data on file, 2015 **7.** Berody S, et al. *Joint Bone Spine.* 2015;82:240-4.

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T-FHT-1328346