Gene hipogonadism hipogonadotrop:

▪ Kal1-in kallman xlinkat, cu anosmie

▪ FGFR1 - fibroblast growth factor receptor 1 - autozomal dominant, normonosmie.

▪ FGF 8 - minoritate de pc autozomal D

▪ cromatin helicase DNA binding protein 7

chromodomain-helicase DNA-binding protein 7 (*CHD7*) have been found in some patients with Kallmann syndrome or idiopathic hypogonadotropic hypogonadism.

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▪ prokineticina 2 si receptorul de prokineticina 2

▪ DAX 1- IHH cu ICSR