## **ANKRD11 And KBG Syndrome**

https://pubmed.ncbi.nlm.nih.gov/29565525/

characteristics:	

KBG syndrome is typically characterized by macrodontia (especially of the upper central incisors), characteristic facial features (triangular face, brachycephaly, synophrys, widely spaced eyes, broad or bushy eyebrows, prominent ears, prominent nasal bridge, bulbous nose, anteverted nares, long philtrum, and thin vermilion of the upper lip), short stature, developmental delay / intellectual disability, and behavioral issues. Affected individuals may have feeding difficulties (particularly in infancy), skeletal anomalies (brachydactyly, large anterior fontanelle with delayed closure, scoliosis), hearing loss (conductive, mixed, and sensorineural), seizure disorder, and brain malformations. There is significant variability in the clinical findings, even between affected members of the same family.

Diagnosis/testing:

The diagnosis of KBG syndrome is confirmed in a proband by detection of either a heterozygous

pathogenic variant in

ANKRD11

or deletion of 16q24.3 that includes

ANKRD11

Management:

Treatment of manifestations:

Surgical corrections and/or speech therapy for palatal anomalies; nasogastric tube feeding in infants; pharmacologic treatment for gastroesophageal reflux disease; pressure-equalizing tubes and/or tonsillectomy/adenoidectomy for chronic otitis media; consideration of amplification for hearing loss; consideration of growth hormone therapy for short stature and medication to arrest puberty for premature pubertal development; standard treatment of seizure disorder, undescended testis in males, congenital heart defects, strabismus / refractive errors, and developmental disabilities.

Surveillance:
Routine monitoring of hearing, vision, growth, pubertal status (in prepubertal individuals), and
cognitive development.
Agents/circumstances to avoid:
Ototoxic drugs should be avoided because of the risk for hearing loss.
Pregnancy management:
Pregnancy management should be tailored to the specific features in the affected woman. For
example, involvement of a cardiologist and maternal fetal medicine physician for a pregnant woman
with a history of a congenital heart defect; control of seizures during pregnancy for those with a
seizure disorder.

