
Lab Dept: **Anatomic Pathology**

Test Name: **HEREDITARY MULTIPLE EXOSTOSES PANEL**

General Information

Lab Order Codes: EXT2

Synonyms: Exostosin 2; Hereditary multiple osteochondromata; Multiple cartilaginous exostoses; Diaphyseal aclasis; HME

CPT Codes: 81479 –Molecular Pathology Unlisted procedure

Test Includes: Analysis is performed bi-directional sequencing of all coding exons of the EXT2 gene. Mutations found in the first member of a family to be tested are confirmed by repeat analysis using sequencing, heteroduplex or restriction fragment analysis.

Logistics

Test Indications: Individuals with HME often develop benign cartilage-capped tumors (exostoses) at the ends of the long bones or the surface of flat bones. Exostoses develop prior to skeletal maturity only. Bony deformity, bowing of the long bones, limited range of motion, and premature osteoarthritis may be associated with hereditary multiple exostoses (HME). Exostoses also may cause complications by putting pressure on nearby tissues, nerves or blood vessels. A rare but severe risk in patients with multiples exostoses is the development of malignant chondrosarcoma, which in 1-5% of patients.

Reasons for referral:

1. Confirmation of a clinical diagnosis
2. Genetic counseling

Lab Testing Sections: Anatomic Pathology - Sendouts

Referred to: GeneDx, Inc. (GDX Code: T996)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours (Preferred draws are Sunday - Thursday as specimens can only be received at the reference lab Monday - Friday. Specimens collected Friday or Saturday will be held for shipment on Monday.)

Turnaround Time: 3 weeks

Special Instructions: A GeneDx signed [request form](#) must be sent with any patient or specimen to the laboratory.

Specimen

Specimen Type: Whole blood

Container: Lavender top (EDTA) tube

Draw Volume: 1 - 5 mL blood

Processed Volume: Same as Draw Volume

Collection: Routine blood collection, invert gently to mix

Special Processing: Lab Staff: Send whole blood in original collection container labeled with patient name, date of birth and medical record number, including signed consent form and requisition, with a cool pack, via overnight or second-day courier so that the sample will arrive at GeneDx, Monday through Saturday. Samples drawn on Saturday or Sunday should be held at refrigerated temperatures for shipment on Monday. **Do not** freeze.
Note: Specimens may be stored at refrigerated temperatures for up to 3 days prior to shipping.

Patient Preparation: None

Sample Rejection: Unrefrigerated specimens older than 48 hours; clotted or hemolyzed for blood; frozen specimens; mislabeled or unlabeled specimens

Interpretive

Reference Range: No mutations detected

Critical Values: N/A

Limitations: Buccal specimens are not acceptable for this testing

Methodology: Capillary sequencing

References: [GeneDx, Inc.](#) October 2020
(301) 519-2100 Fax (301) 519-2892

Updates: 2/6/2013: CPT update
10/12/2020: GDx updated order code and TAT