

Hair-On-End

“Hair-On-End” appearance in the [skull](#)

1. common

a) congenital hemolytic anemia(e.g.thalassemia,sickle cell,hereditary spherocytosis,pyruvate kinase deficiency)

2. uncommon

a) hemangioma

b) cyanotic congenital heart disease (with secondary polycythemia)

c) [iron](#) deficiency anemia

d) metastases: especially neuroblastoma, thyroid carcinoma

e) multiple myeloma

f) meningioma

g) osteosarcoma

h) polycythemia vera

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