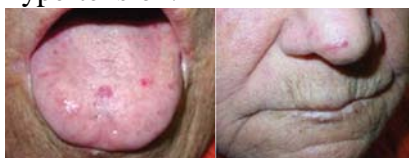


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內文：

- Also known as
 - ✓ Babington disease
 - ✓ Goldstein haematemesis
 - ✓ Goldstein heredofamilial angiomatosis
 - ✓ Goldstein syndrome
 - ✓ Hereditary haemorrhagic telangiectasia
 - ✓ Osler disease
 - ✓ Osler syndrome
 - ✓ Osler–Rendu–Weber syndrome
 - ✓ Rendu–Osler syndrome
- Osler–Rendu–Weber disease (hereditary haemorrhagic telangiectasia: HHT)
 - ✓ occurs mainly in white people.
 - ✓ is an uncommon autosomal dominant disorder characterized by multiple telangiectasia of the skin, and of the oral, nasal, conjunctival and gastrointestinal mucous membranes.
 - ✓ These manifest from childhood and are liable to ulcerate and bleed, and so epistaxis and gastrointestinal haemorrhages are common.
 - ✓ Arteriovenous fistula, especially of the lungs, liver and brain.
 - ✓ Recurrent complications are severe anaemia, stroke and pulmonary hypertension.



- The mechanism
 - ✓ underlying the formation of the vascular malformations in HHT seems related to transforming growth factor beta 1(TGFB-1) signaling defects adversely affecting matrix and connective tissue production.
 - TGF-beta signalling has a pivotal role in angiogenesis.
- Several forms of HHT have been described:
 - ✓ *Hereditary haemorrhagic telangiectasia 1*
 - Which predisposes to pulmonary and cerebral arteriovenous fistulae and early oral and nose bleeds, is related to mutation of the endoglin gene (ENG).
 - ENG is a receptor for transforming growth factor beta 1(TGFB-1) and transforming growth factor beta 3(TGFB-3).
 - ✓ Hereditary haemorrhagic telangiectasia 2
 - Dermal lesions and hepatic vascular malformations are more frequent and appear earlier in life with later nose bleeds, it is related to mutation in the ALK1 gene.

- Activin receptor-like kinase 1 (ALK-1 or ACVRL1) is a TGFβ1 receptor.
- ✓ Hereditary haemorrhagic telangiectasia 3 has not yet been linked to a defective gene.
- ✓ Juvenile polyposis/HHT syndrome is caused by mutations in the SMAD4 gene, which modulates TGF.
- ✓ Hereditary haemorrhagic telangiectasia 4 has now been identified.
- The diagnostic criteria for HHT include:
 1. Spontaneous recurrent epistaxis
 2. Multiple telangiectasis
 3. *Proven visceral arteriovenous fistulae*
 4. *First-degree family member with HHT.*
 - If three or four of these criteria are met, a patient has definite HHT, while two gives a possible diagnosis.
- treatment
 - ✓ In mild cases of HHT, no treatment is necessary.
 - ✓ Anaemia due to bleeding may necessitate blood transfusions.
 - ✓ AVMs in critical organs may necessitate surgery or embolisation under radiographical control.
 - ✓ In severe cases of HHT, recurrent epistaxis is treated surgically with nasal septum skin transplants by using skin taken from the lower trunk.
 - ✓ Infra-red laser coagulation is well suited to the treatment of telangiectases in the skin and/or mucosal surfaces.
- prognosis
 - ✓ Most patients with hereditary hemorrhagic telangiectasia (HHT) have a favorable prognosis.
 - ✓ The prognosis depends on the degree of systemic involvement, especially involvement of the pulmonary, hepatic, and central nervous systems. Only 10% of patients die from complications of their disease.
- Background
 - ✓ First described by Sutton in 1864 and Babington in 1865 as a hereditary epistaxis disease.
 - ✓ In 1896, Rendu described the disease as a pseudo hemophilia related to hereditary epistaxis.
 - ✓ William Bart Osler in 1901 authored the first comprehensive description of the disease in three patients, and emphasized its familial nature.
 - ✓ Weber (1907) recognized HHT as a clinical entity distinct from hereditary hemophilia, and Hanes (1909) named the syndrome hereditary hemorrhagic telangiectasia.
- The main persons
 - ✓ William Osler
 - He started to study Medicine at Toronto Medical School in 1868. He spent the longest period at University College, London, where Osler was the first to see platelets.
 - Osler returned to Canada to undertake general practice in Dundas, was appointed lecturer in the Institutes of Medicine at McGill and became Professor at a age of 26.
 - In 1888/1889, Osler accepted an invitation to be the first Professor of medicine at the Johns Hopkins University Medical School. Osler published his book 'Principles and Practice of Medicine' in 1892.

- Osler wrote some of the early descriptions of platelets and classical papers on hereditary telangiectasia, lupus erythematosus
- ✓ Henri Jules Louis Marie Rendu
 - He started studying Medicine in Paris and became interne at the Hôpital Saint-Antoine.
 - In 1877, Rendu received the degree of hospital physician
 - He then returned to the Hôpital Necker as Head of the Department of Medicine and he received the ultimate accolade of election to membership of Academy of Medicine.
- ✓ Frederick Parkes Weber
 - was born on 8 May 1863, in London.
 - Weber obtained his doctorate at Cambridge and worked at St.
 - appointed honorary physician to the German Hospital, Queen Square, London.

題號	題目
1	Hereditary haemorrhagic telangiectasia 好發於? (A) white people, children (B) White people, old people (C) Asian people, children (D) Asian people, old people
答案(A)	出處：Marathon of eponyms: 15 Osler–Rendu–Weber disease 遺傳性出血性血管擴張症之介紹及治療
題號	題目
2	Hereditary haemorrhagic telangiectasia 的病因? (A) 血液凝固問題 (B) 凝血因子缺乏 (C) 基因缺陷所導致的血管畸形病變 (D) 環境汙染
答案(C)	出處：Marathon of eponyms: 15 Osler–Rendu–Weber disease 遺傳性出血性血管擴張症之介紹及治療 Osler-Weber-Rendu Syndrome --Dental Implications