Alopecia Mucinosa
Follicular mucinosis is characterized clinically by grouped erythematous papules and/or plaques that may be markedly indurated or nodular (induration due to occlusion of hair follicles). It can be classified into two types: a primary (idiopathic) type and a secondary variety. The primary form tends to have a shorter but benign course. The secondary type has been associated with numerous benign and malignant conditions, including lymphomas, of which the majority are mycosis fungoides. A distinct variant of mycosis fungoides is characterized by follicular mucinosis.
Alopecia mucinosa = ٌٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍٍ_
The secondary type has been found in association with other lymphoproliferative disorders, including Hodgkin's disease.
There has been controversy about whether the histopathology allows for distinction between the primary and secondary forms of Alopecia mucinosa. It has been observed that there was no clinical or pathologic pattern by which the ultimate outcome of the condition could be predicted.
Others have reported that adults older than the age of 40 years with widespread follicular mucinosis are...
In 1957, Pinkus described *alopecia mucinosa*, the term used when follicular mucinosis affects terminal
Histopathology.
Within the outer root sheath and sebaceous gland epithelium, there is reticular epithelial degeneration that sometimes demonstrates that the mucin is predominantly hyaluronic acid. Colloidal iron stain may also be used for its detection.
Alopecia mucinosa = اﻠﻤﺨاﻄﻴﻨﻴﺔ اﻠﺤاﺼﺔ
Inflammation is composed of lymphocytes and histiocytes, but there can also be eosinophils. There may...
follicular mucinosis (primary or secondary), features that have been proposed as favoring a lymphoma-associated process. 

Pathogenesis
Electron microscopic studies have shown that the mucin is a product of the outer root sheath epithelial cells. The mucin is an extracellular filamentous material that is secreted into the intercellular spaces. In two of our patients with primary, idiopathic alopecia mucinosa with reversible alopecia, we found, using transverse sections, an increased number of resting-phase follicles, mostly catagen, ranging from 46% to 92% of all terminal follicles (unpublished observation).
Alopecia mucinosa = اﻠﻤﺨاﻄﻴﻨﻴﺔ اﻠﺤاﺼﺔ