

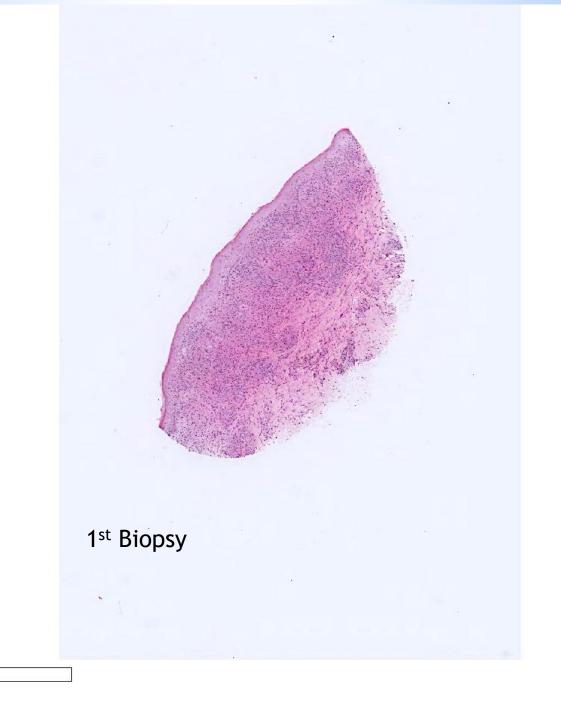


Dr Nitin Khirwadkar Consultant Dermatopathologist Liverpool Clinical Laboratories, RLUH, Liverpool *50 F, known to have lichen plano pilaris

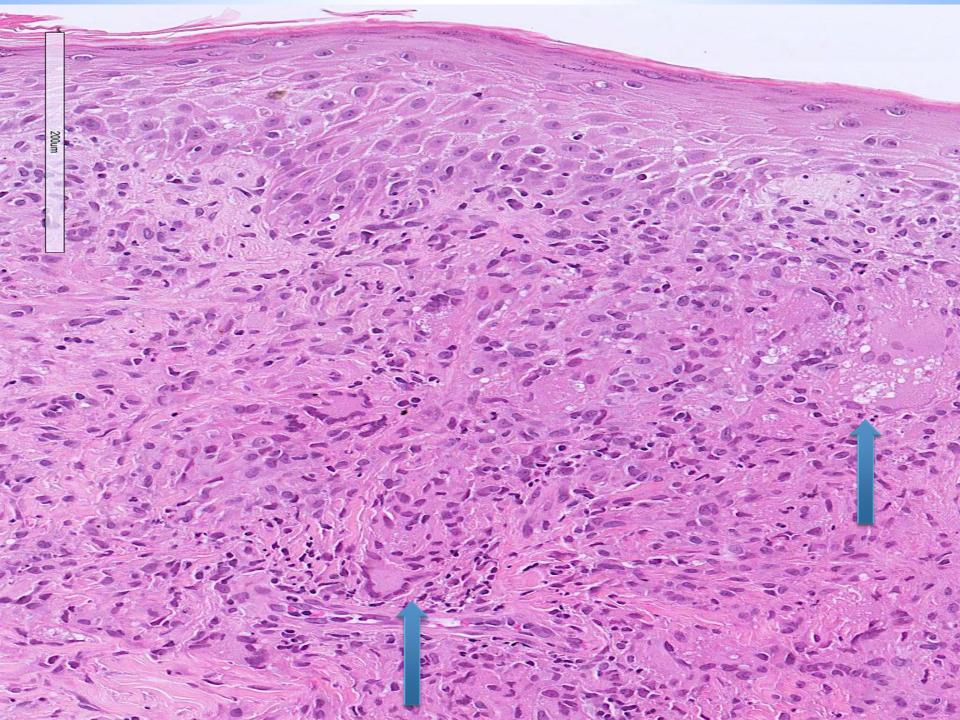
*Monomorphic, painful papules and plaques on lower legs.

*Punch biopsy lower leg





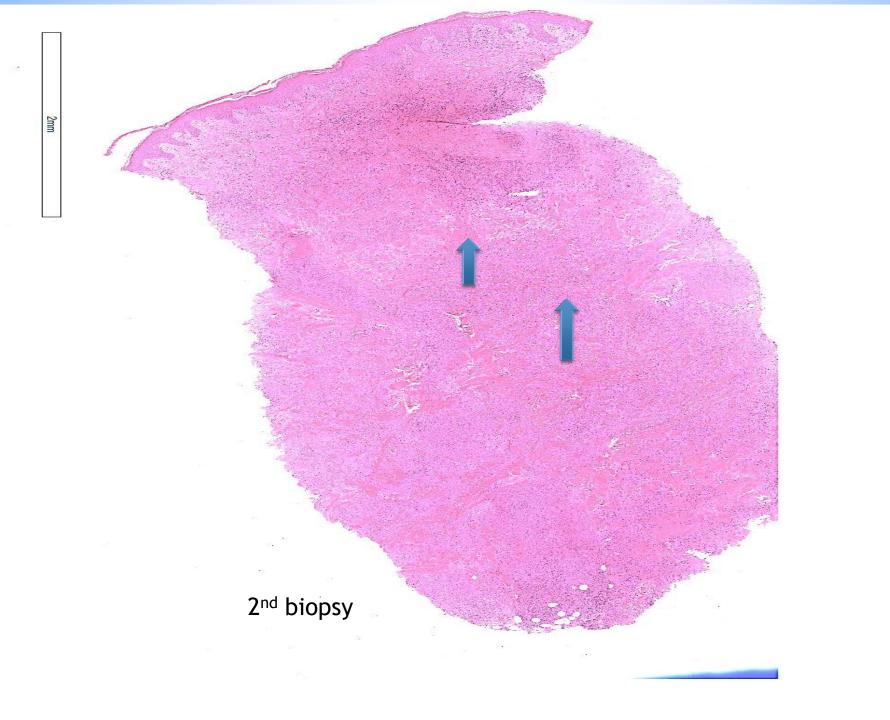
2mm

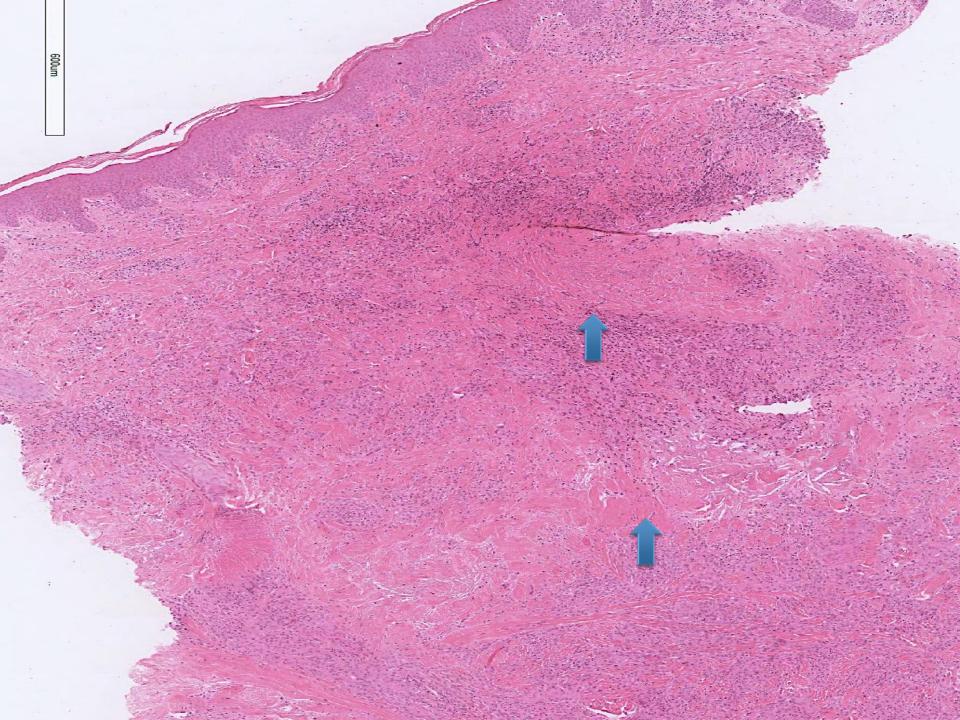


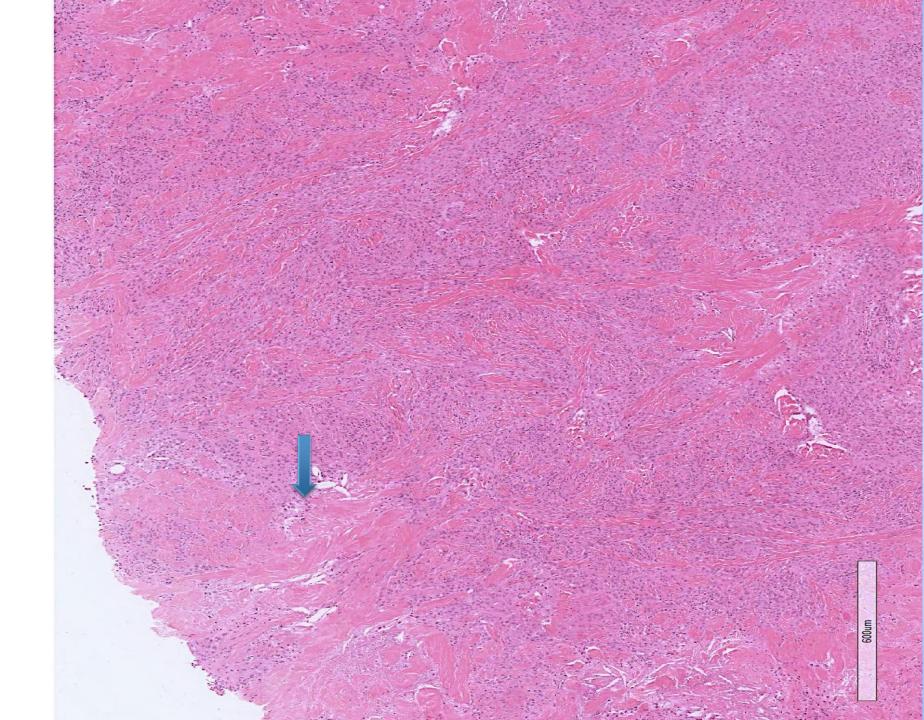
*Shallow punch biopsy *Granulomatous infiltrate

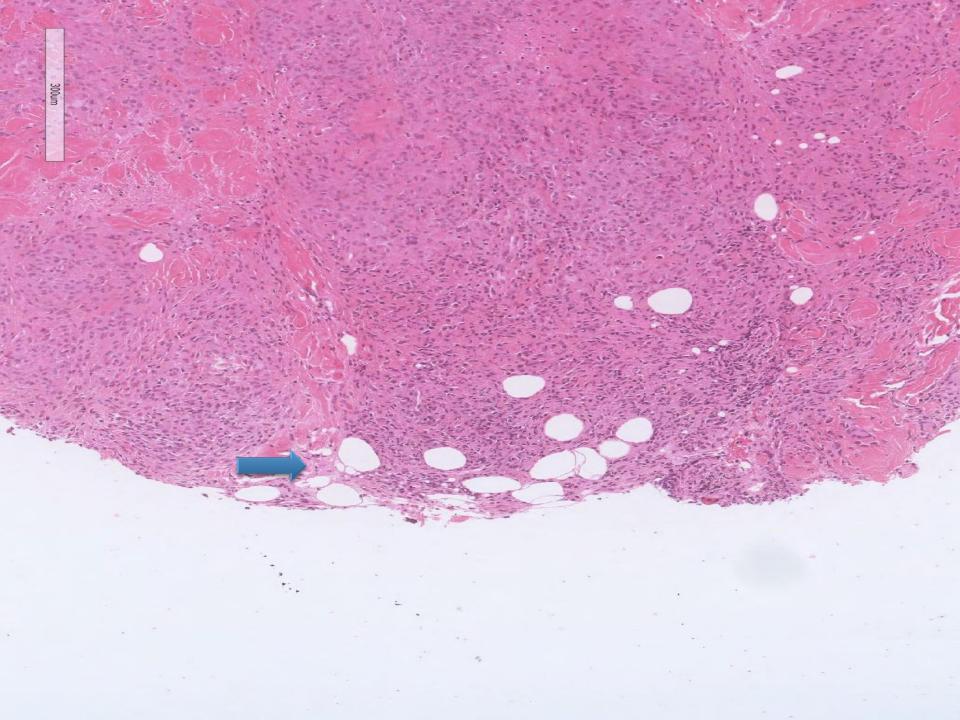


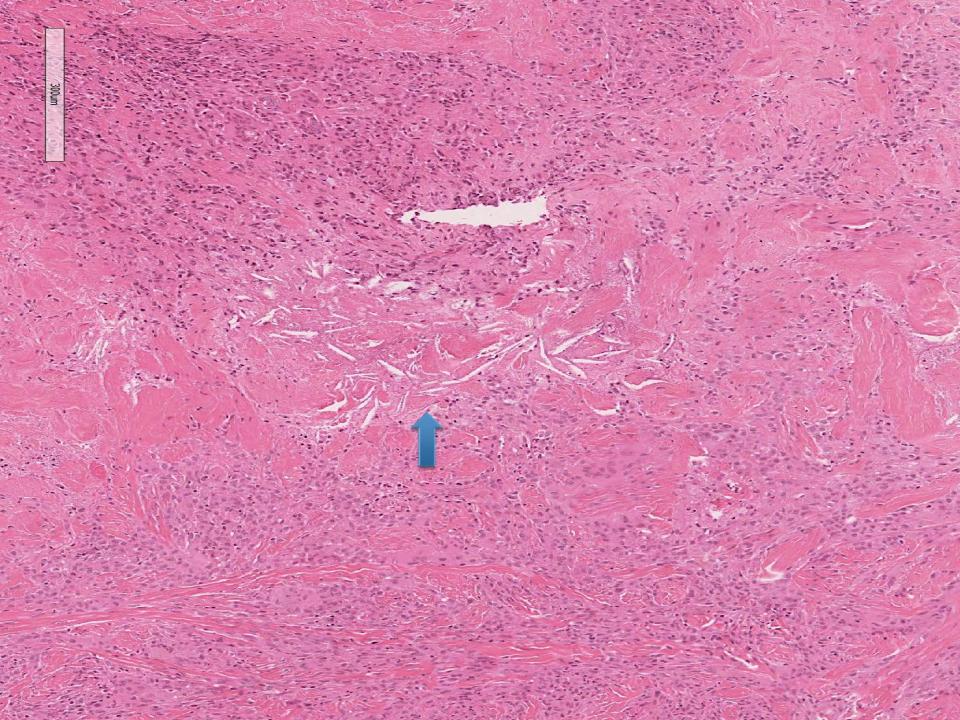


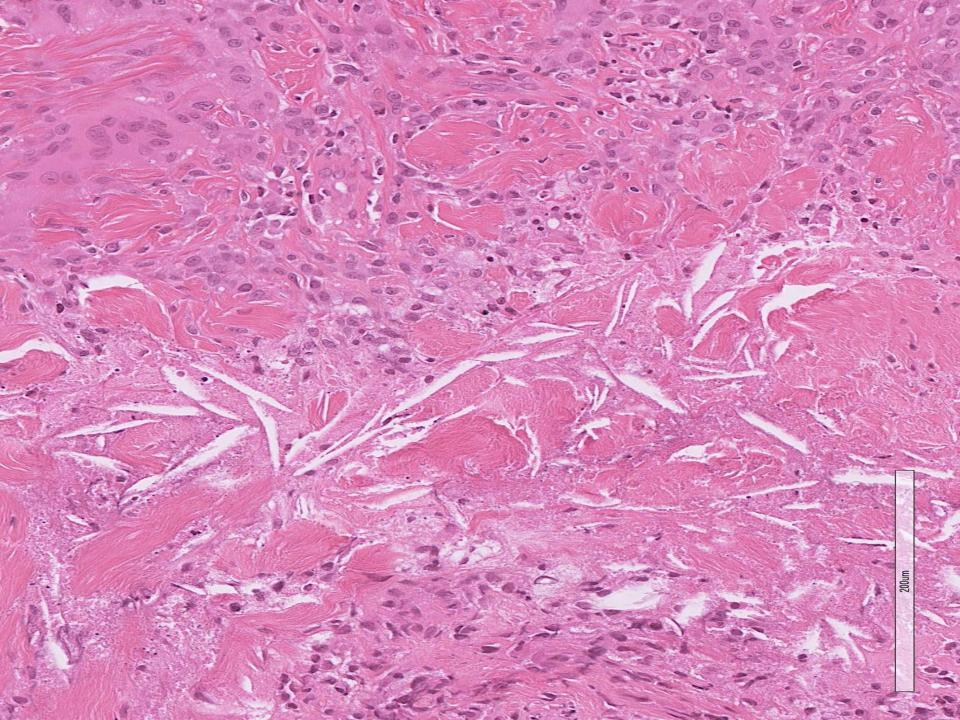


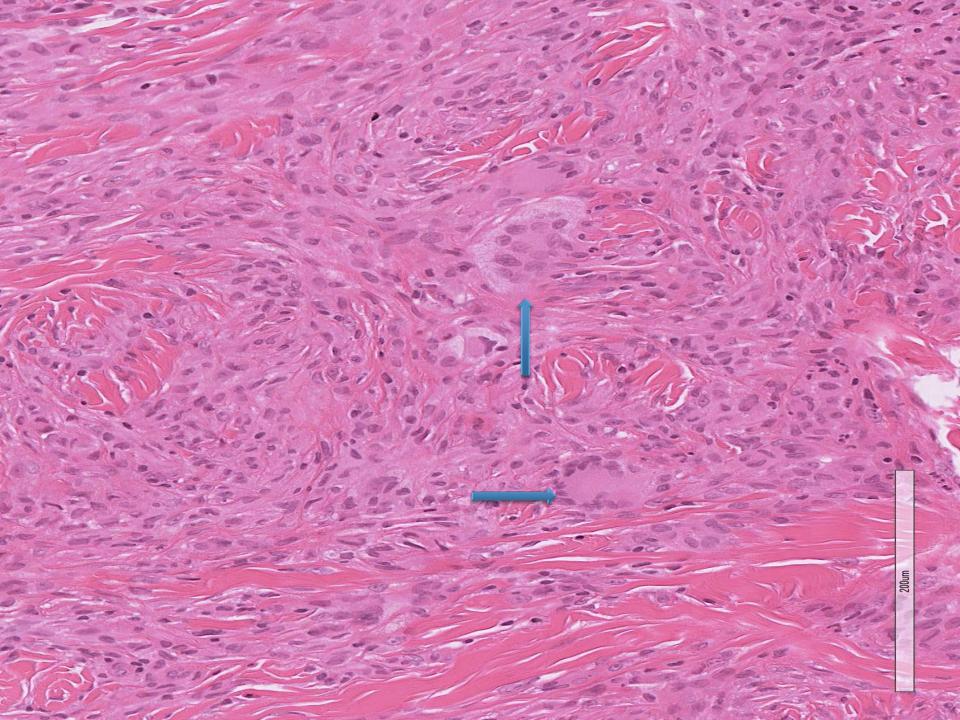




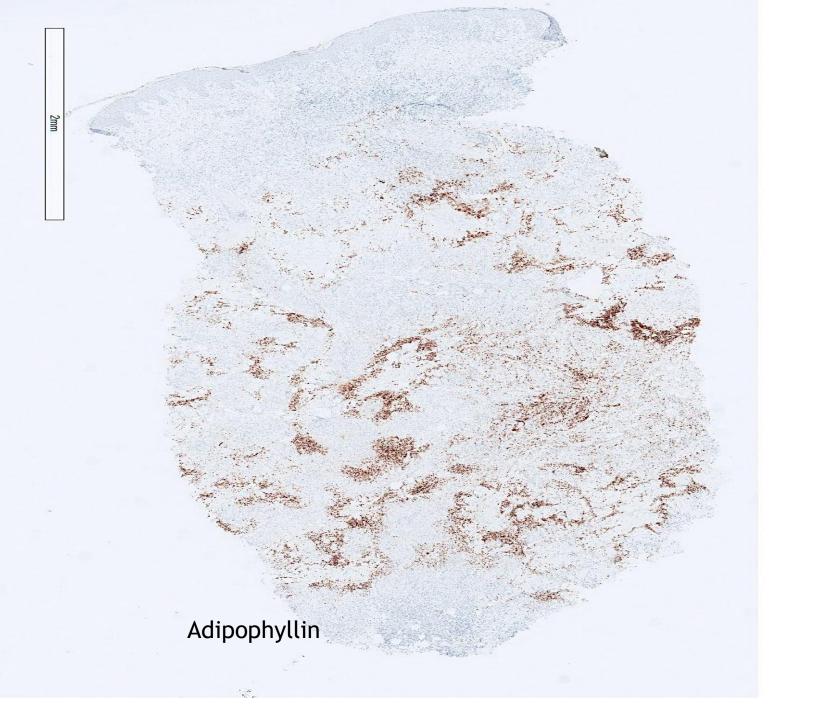












- *1: Juvenile xanthogranuloma
- *2: Granuloma annulare
- *3: Necrobiosis lipoidica
- *4: Histiocytic sarcoma
- *5: Necrobiotic xanthogranuloma

*Most common in the first five years

*Multiple skin lesions much less common

*Mixed infiltrate including lymphocytes, eosinophils and plasma cells

*Necrobiosis and cholesterol clefts XX

*Juvenile Xanthogranuloma

*Generalised form- papular lesions, nodules can occur

*Necrobiosis is circumscribed/ill defined

*Lipid and giant cells are rare



- *B/L, single-multiple, often symmetrical lesions on the lower extremities.
- *Characteristic lesion is a sclerodermatous plaque, round/oval shape and an elevated rim.
- * Papulonecrotic and ulcero-nodular lesions are rare.
- *Cholesterol clefts are rare and only exceptionally prominent.

*Necrobiosis lipoidica

*Extremely rare

*Advanced stage, red-violaceous nodules

*Pleomorphic histiocytic cells with multiple and frequent mitoses.



*Rare, non-Langerhans cell histiocytosis, first described by Kossard and Winkelmann in 1980.

*100 cases, worldwide

*The most common site of involvement is the face especially periorbital areas. In some patients this feature is absent and lesions can be found restricted to extremities & trunk.

> *Necrobiotic Xanthogranuloma

- * NXG is now considered as a systemic disease. Internal organ involvement have been reported, in most cases asymptomatic and diagnosis established only at post-mortem.
- * Haematological and lymphoproliferative malignancies are the most important associated systemic disorders.
- * Develop approximately 2.4 years after onset of skin lesions.

*80-90% of cases demonstrate monoclonal gammopathy (IgG kappa 60% > IgG lambda 26%)

*10% cases develop multiple myeloma

*Clinical course, chronic, progressive and indolent.

* Patients should undergo long term surveilance for haematologic and other malignancies.

*Serum Free light chains: Free Kappa 36.8 (3.3 -19.4)Free Lamda 8.7 (5.7 - 26.3)Kappa:Lamda 4.23 (0.26 - 1.65)

*Bence Jones proteins: Monoclonal Kappa detected



*Commenced on course of topical PUVA for symptom control

*Analgesia

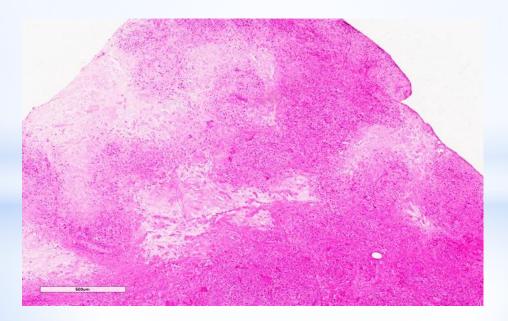
*Discussed with Haematology:

- * BM biopsy performed; plasma cell myeloma with approx. 30-50 cellularity.
- * Reclassified as 'smouldering myeloma'
- * Discussed potential treatment with alkylating agent for both haematological and dermatological manifestations.



*A few months later patient developed orbital/peri-orbital plaques

*Histology showed features typical of NXG



- * L Higgins. Necrobiotic Xanthogranuloma (NXG) associated with monoclonal gammopathies (MG): Clinical features and treatment outcomes. Blood 2015. 126: 1830
- * A Wood, V Wagner & J Abbott. Necrobiotic Xanthogranuloma: A review of 17 cases with empahsis on clinicl and pathologic correlation. Arch Dermatol. 2009. 145(3): 279-284
- * A Saggini, C Cota & L Cerroni. Distinctive pattern of adipophilin expression in necrobiotic xanthogranuloma (letter to the editor). American Journal of Dermatopathology 2016. 38(6). 468-469
- * S Inthasotti, R Wanitphakdeedecha & J Manonukul. A 7-year history of necrobiotic xanthogranuloma following asymptomatic multiple myeloma: A case report. Dermatology Research and practice. 2011(2011), Article ID 927852, 5 pages.



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