Wolf in sheep’s clothing and vice versa?

Jean-Michel Coindre - Institut Bergonié - Bordeaux France
Case 6
Case 6
Clinical information

- Fifty-year old woman
- Left inguinal lymph node
- 25 mm in size.
Case 6 – Proposal diagnosis

Kaposi sarcoma of the lymph node
Band of sclerosis separating the lesion from lymph node remnant
Palisading
Amianthoid fibers
Case 6 - Immunohistochemistry

- CD34 –
- HHV8 –
- S100 protein –
- H-Caldesmon –

Smooth Muscle Actin
Case 6

**Final diagnosis**
Intranodal palisaded myofibroblastoma
Intranodal palisaded myofibroblastoma

Palisaded Myofibroblastoma
A Benign Mesenchymal Tumor of Lymph Node

Sharon W. Weiss, M.D., Douglas R. Gnepp, M.D., and Gary L. Bratthauer, B.A., MT(ASCP)

Intranodal Hemorrhagic Spindle-Cell Tumor with “Amianthoid” Fibers
Report of Six Cases of a Distinctive Mesenchymal Neoplasm of the Inguinal Region That Simulates Kaposi’s Sarcoma

Saul Suster, M.D., and Juan Rosai, M.D.

- Described In 1989
- Rare lesion (< 100 reported cases)
- Inguinal lymph node
  Other sites are rare
- Adults between 25 and 78 years
- M>>F
- No local or distant recurrence
Intranodal palisaded myofibroblastoma - IHC

- SMA +
- Cyclin D1 +
- Beta-catenin +
- S100 protein –
- CD34, HHV8 –
- H-caldesmon, desmin –
- Ki67 1-2%
INTRANODAL PALISADED MYOFIBROBLASTOMA: ANOTHER MESENCHYMAL NEOPLASM WITH CTNNB1 (BETA-CATENIN GENE) MUTATIONS. CLINICOPATHOLOGIC, IMMUNOHISTOCHEMICAL, AND MOLECULAR GENETIC STUDY OF 18 CASES

William B. Laskin, MDargent; Jerzy Lasota, MDargent; John F. Fetsch, MDargent; Anna Felisiak-Golabek, PhDargent; Zeng-Feng Wang, PhDargent; and Markku Miettinen, MDargent

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Case 6

c.94G>A p.(Asp32Asn)
D32N

INPM
Myofibroblastic neoplasm driven by gain-of-function CTNNB1 mutation
Spindle cell tumors of lymph node

- Metastases
  - Sarcomatoid carcinoma
  - Spindle cell melanoma
  - Spindle cell sarcoma
- Primary malignancies
  - Kaposi sarcoma
  - Dendritic cell sarcoma
- Benign tumors
  - Schwannoma
  - Lymphangioleiomyoma
  - Leiomyoma
  - Inflammatory pseudotumor
Intranodal palisaded myofibroblastoma
Differential diagnosis

- Metastases
  - Sarcomatoid carcinoma
  - Spindle cell melanoma
  - Spindle cell sarcoma

- Primary malignancies
  - Kaposi sarcoma
  - Dendritic cell sarcoma

- Benign tumors
  - Schwannoma
  - Lymphangioleiomyoma
  - Leiomyoma
  - Inflammatory pseudotumor
Kaposi sarcoma of lymph node

• With skin lesions or isolated
• In adults with AIDS or African children
• Histology and IHC are different
• INPM formely called schwannoma
• > 1989, with S100 protein +: < 15 cases
• Site – Internal trunk: retroperitoneum, pericolic, intra-thoracic
Leiomyomas of lymph node

- Smooth muscle proliferation of nodal hilus
- Intranodal leiomyoma
- Angiomyomatous hamartoma
- Leiomyomatosis
- Benign metastasizing leiomyoma

Akar et al J Obstetrics and Gynaecology 2019, 39:420-1
Case 6 – Take-home messages

- INPM is a rare lymph node tumor
- INPM is benign
- Easy to recognize
  - inguinal lymph node in adult
  - histology is typical – H and E is sufficient