SELNET MDT

19/12/2024

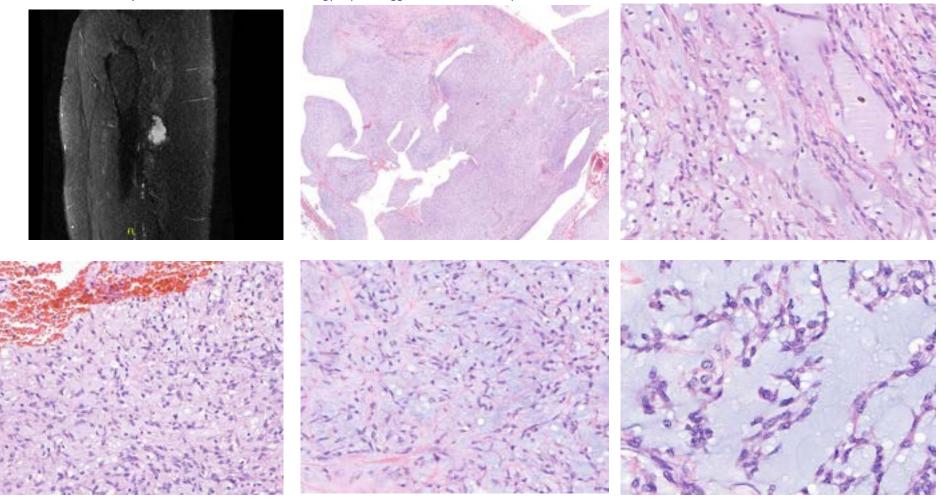


CASE 1

Isidro Machado- Spain



45 y/o/w. Gluteal tumor: The radiology report suggests a vascular neoplasm or malformation.

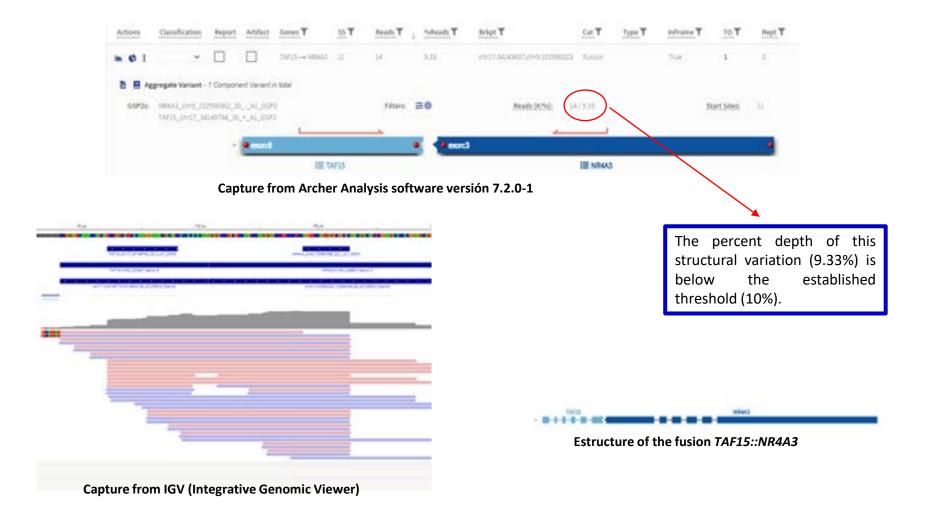


December SELNET meeting. IVO (Isidro Machado, Reyes Claramunt, Héctor Aguilar)



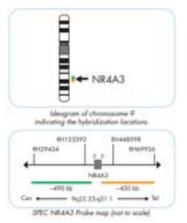


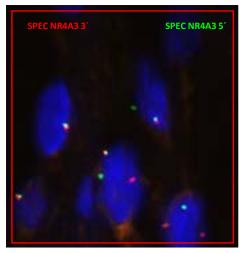




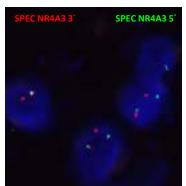


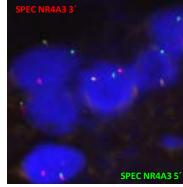
ZytoLight ® SPEC NR4A3 Dual Color Break Apart Probe

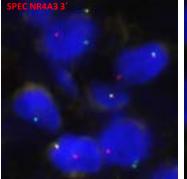


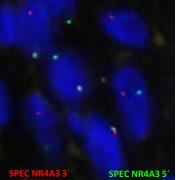


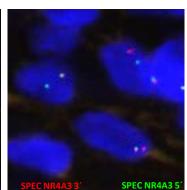
63X









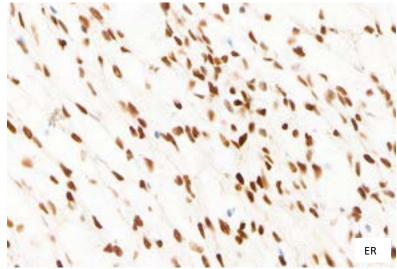


68% Rearrangement





Estrogen receptor expression is rare in EMC but is not exclusively found in PGR::NR4A3 tumors, and it may represent a potential target for therapy.







CASE 2

Emy Estefany García- Mexico







CLINICAL CASE

Speakers: **Emy Estefany García Guillén**, MD. Medical Oncology

Haydee Caro, MD Oncologic Pathologist

National Cancer Institute, Mexico City. December 19th, 2024.



Medical history:

Male, 30 yo, without remarkable medical background or risk exposure

Pain on right leg which causes abnormal gait during the last 10 months.

Foot X ray: lytic lesion on navicular bone and med. and lat. cuneiform bones.

Physical examination: Pigmented lesion in 1st and 4th fingers of the right foot. No enlarged lymph nodes





TIMELINE

Nov 11th, 2024 Nov 15th, `2024

Nov 16th, \ 2024

Nov 26th, 2024

Bx 1st finger

Pseudomyogenic hemangioendothelioma 10 mitosis per HPF, no LVI, with PNI. Tumour in contact with border.

RMI

Multiple, hyperintense lesions in talus, calcaneus, navicular and cuneiform bones, with soft tissue involvement

PET CT 18 FDG

Multiple hypermetabolic lesions on foot bones, soft tissue in proximal third of right leg lungs with multiple, non hypermetabolic micronodules.

Blood test

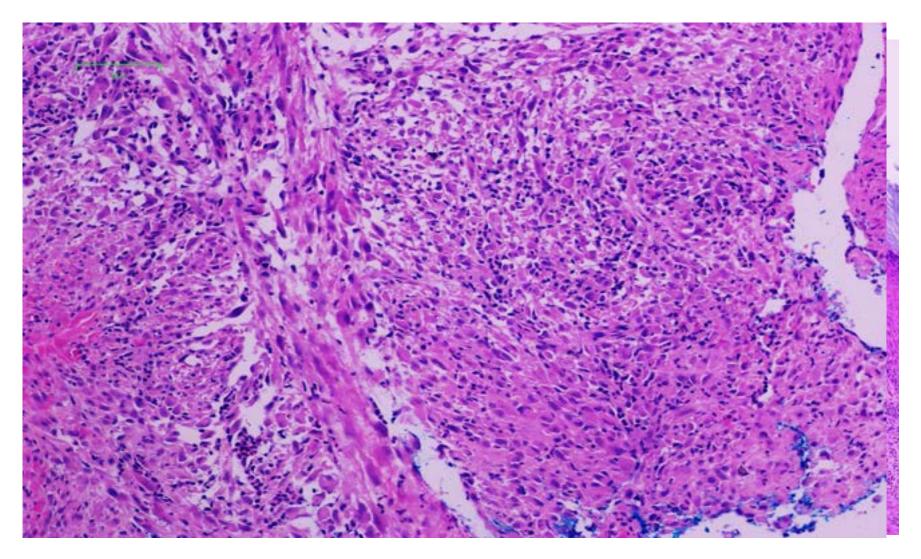
All within normal range



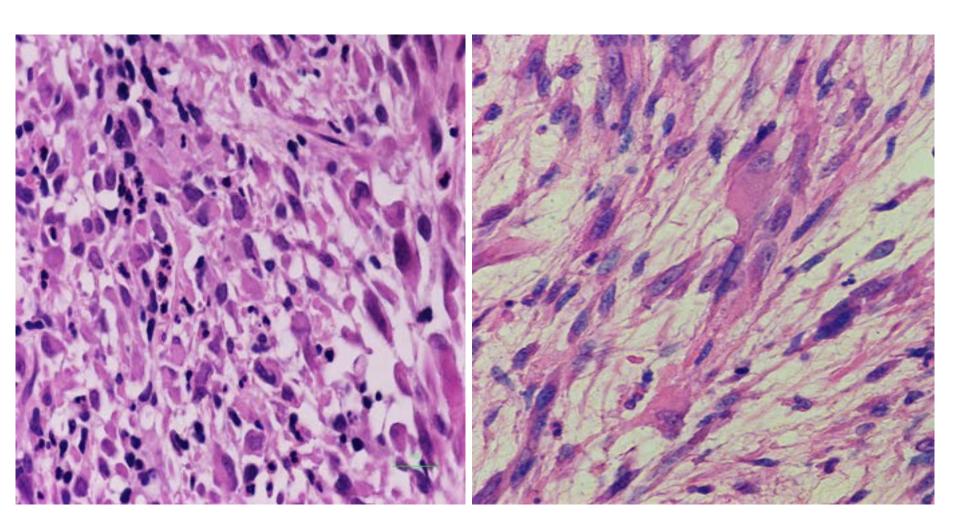




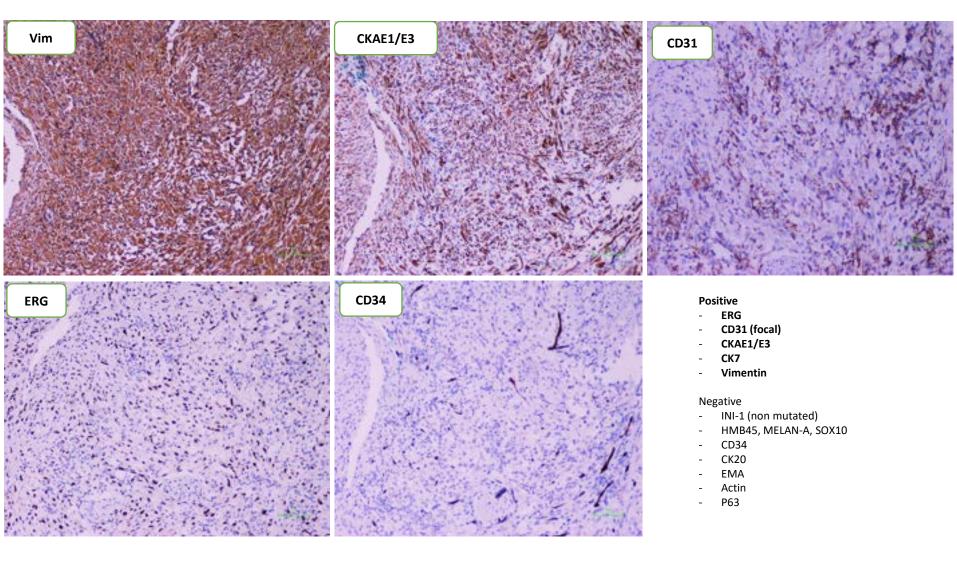














Questions

- 1.- What is your **experience in the management** of these kind of tumors, since these are rare?
- 2.-What would be your **first line treatment**? Would you choose an antiangiogenic or anthracycline?
- 3.-What do you think about palliative radiotherapy to the limb?





CASE 3

Carlos López - Spain



SELNET Virtual MDT

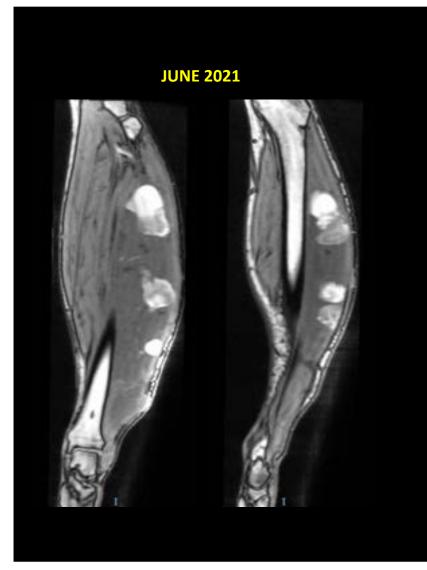
19th December 2024

Carlos López Jiménez Fundación Jiménez Díaz University Hospital Madrid, Spain





- Male, 20 years old
- June 2021 → Tumor on the left leg.
- MRI → 3.2 x 7.2 cm mass involving the anterior, lateral, and posterior compartments of the left leg. The mass contains cystic and/or necrotic areas as well as intralesional hemorrhagic components. It is dependent on the anterior tibialis, extensor digitorum longus, peroneus longus, and posterior tibialis muscles.
- TRU-CUT BIOPSY → High-grade malignant neoplasm composed of spindle cells arranged in short fascicles. Nuclei show mild atypia and scant cytoplasm.
 - **IHC profile:** TLE1 focally positive, BCL2 focally positive; STAT6 negative (cytoplasmic staining only), ERG positive in vessels.
 - Grade of differentiation: 3.
 - Mitotic index: 2 (6 mitoses identified per 1 mm²).
 - Tumor necrosis: 1 (approximately 10% tumor necrosis identified).
 - Molecular: SS18:SSX1 fusion.
 - Diagnosis: FNCLCC grade 3 monophasic synovial sarcoma.
- THORACIC CT → At least six pulmonary metastases identified.
- DIAGNOSIS → G3 metastatic synovial sarcoma (pulmonary metastases, multicompartmental neurovascular tumor involvement).
- FIRST TREATMENT → Doxorubicin 60 mg/m² on day 1, plus ifosfamide 3000 mg/m² for 5 days, administered every 21 days for six cycles (July 2021 to January 2022). Best response: STABLE DISEASE.





- Local symptoms.
- MRI → Intramuscular mass (7,5 x 9,2 x 29 cm) in the lateral region
 of the left leg with extensive areas of necrosis, infiltrating the
 musculature of the lateral and deep compartments, and involving
 more than 50% of the anterior tibial neurovascular bundle.
- The patient refuses amputation.
- **SECOND LINE TREATMENT** (February/2022)

Trabectedin

(1.5 mg/m2 every 21 days)

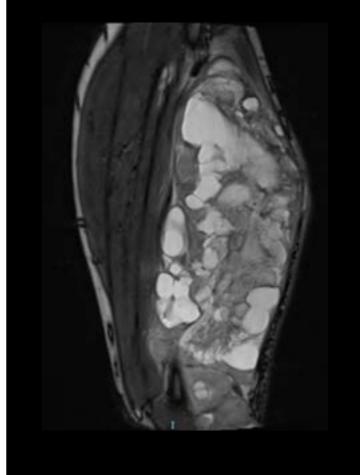
+

Radiotherapy

(45Gy in 25 fractions)

Immediate goal of symptom control.







Second cycle of trabectedin (14th March 2022)

• The patient presented to the emergency room with universal jaundice, nausea, and fever.

LABORATORY TESTS

G2 thrombocytopenia + G1 neutropenia + G3 hypertransaminasemia + G3 hyperbilirubinemia.

- Infection and other differential diagnoses were ruled out, and **TRABECTEDIN TOXICITY** was raised as the primary diagnostic possibility.
- <u>INITIAL TREATMENT</u> → Dexamethasone 4 mg every 12 hours, plus IV fluid therapy.
- **48 hours after admission** → Respiratory function worsened (85% oxygen saturation). Thoracic CT showed bilateral patchy infiltrates, compatible with **TOXIC PNEUMONITIS / ACUTE RESPIRATORY DISTRESS SYNDROME**. No signs of an infectious origin.
- IV METHYLPREDNISOLONE was administered at a dose of 1 mg per kg. No high-flow oxygen was required.









A: CT scan performed at the day of emergency room admission.

B: CT scan performed at the day of ICU admission.

C: CT scan performed 10 days after hospital discharge with complete resolution of lung toxicity.



- Complete recovery of hepatic and hematological function occurred after 5 days of treatment. The patient was discharged 11 days after admission.
- Consumption of inadvertent toxins or drugs was reassessed to explain the unexpected toxicity despite receiving standard doses of trabectedin.



Consumption of daily <u>hibiscus flower infusion</u> (4-5L) during the 5 days prior to admission

CYP3A4 and P450 cytochrome inhibitor!

• After 3 cycles, the patient fulfilled a MAJOR PARTIAL RESPONSE. He completed 5 cycles of treatment until June/2022.

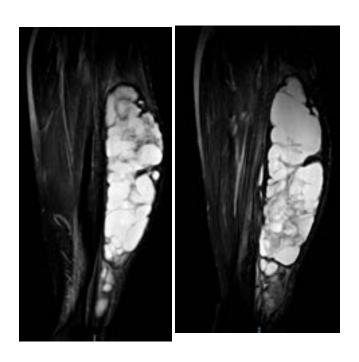


• Surgery of amenable pulmonary lesions.

DECEMBER 2022

• Primary tumor surgery (excision) in January 2023:

Stereotactic Body Radiation Therapy for lung metastases (x5),





Relevant questions for discussion

Pharmacological interactions and trabectedin toxicity profile.

Hibiscus sabdariffa (Jaimaica flower) as a CYP3A4 and P450 inhibitor.

Subsequent severe trabectedin toxicity.

FAS-mediated hepatotoxicity and acute respiratory distress syndrome.

Trabectedin in rearranged-sarcomas.

From amputation to limb salvage surgery.





THANK YOU, GRACIAS, OBRIGADO, DANKE, GRAZIE, MERCI

