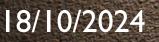
## MI-COD

MSS INDIA- Case Of the Day

98

(3)

 $(\mathbf{r})$ 



INDIA

SKELETA

Case contributor – Dr (Prof). Rajesh Botchu

Musculoskeletal Society of India (MSS) & Indian Journal of Musculoskeletal Radiology (IJMSR), the official publication of MSS India

For MICOD case archives visit <u>https://www.indianmss.org/</u> Check out our latest publication at <u>https://mss-ijmsr.com/</u>

Authentic source of MSK Radiology

For daily MSK radiology updates & great educational contents, follow us on



You Tube



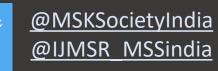


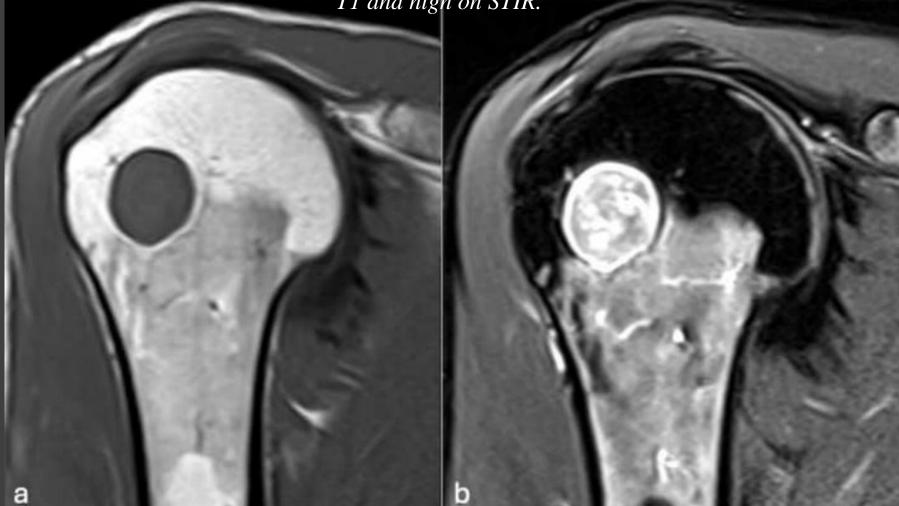


Figure 1. Anteroposterior radiograph (a), CT (b) and PET-CT(c) of right shoulder show a lucency (arrow) in the right humeral head with a faint sclerotic rim. Axial FDG PET-CT (c) shows high avidity (SUV-6.2) within the lesion (arrow).



He had experienced shoulder pain intermittently for the past four years. The maximal SUV (Standardized uptake value) of 6.2 of the lesion, and a CT-guided biopsy was performed.

Figure 2. Coronal T1(a) and STIR (b) of right shoulder show a rounded lesion (arrow) in the right humeral neck which is low on T1 and high on STIR.



He had experienced shoulder pain intermittently for the past four years. The maximal SUV (Standardized uptake value) of 6.2 of the lesion, and a CT-guided biopsy was performed.

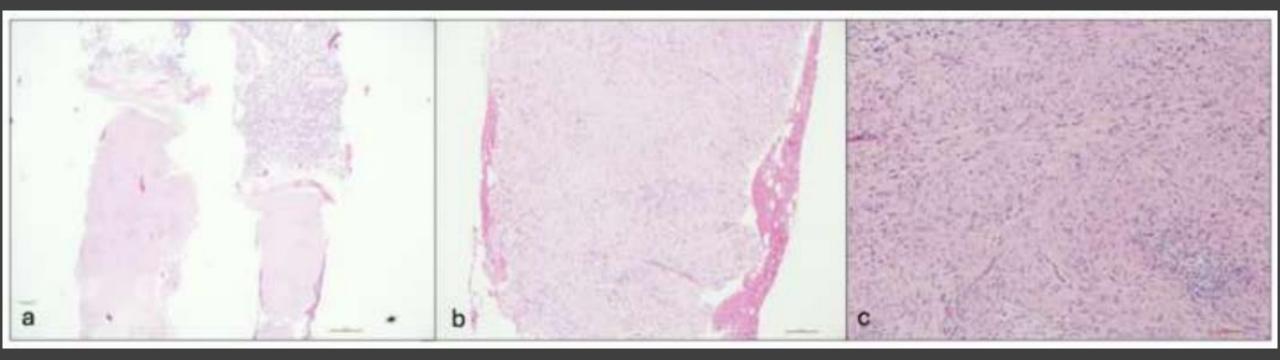


Figure 3. Haematoxylin and eosin stain (a), 400x(b and c) showing bone cores partly replaced by a spindle cell tumour with low to moderate cellularity with well-demarcated borders (a). Spindle cells arranged in interlacing fascicles with eosinophilic cytoplasm(b). Spindle cells show very mild nuclear pleomorphism, bright eosinophilic cytoplasm and elongated nuclei with a lack of conspicuous mitotic activity and necrosis (c).

He had experienced shoulder pain intermittently for the past four years. The maximal SUV (Standardized uptake value) of 6.2 of the lesion, and a CT-guided biopsy was performed.

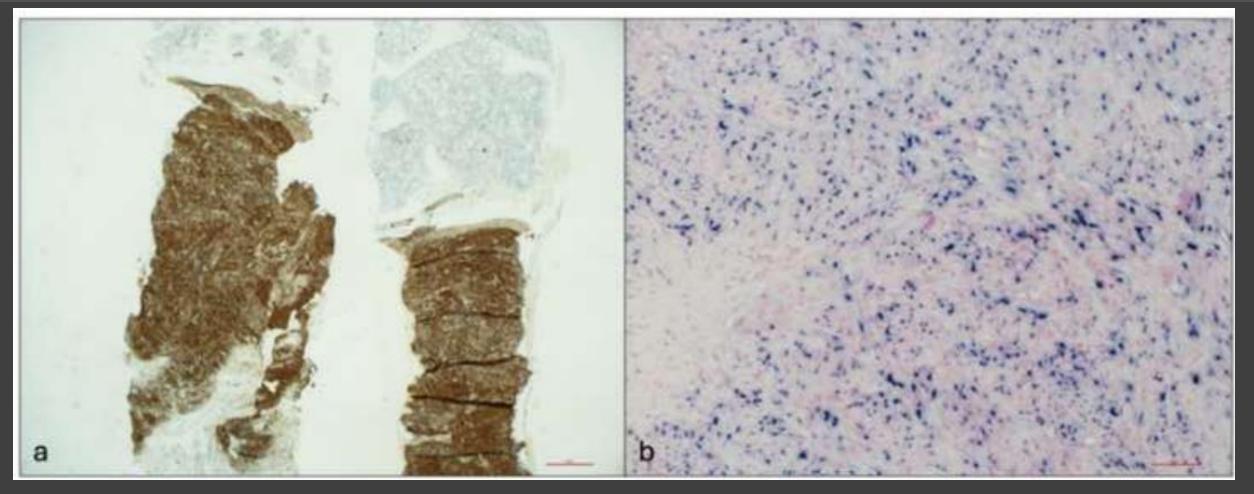


Figure 4. Immunohistochemistry (a)demonstrating tumour cells expressing diffused SMA positivity (SMA stain). EBER in-situ hybridization (b) revealing nuclear positivity in tumour cells (EBER ISH).

## Epstein-Barr Virus associated smooth muscle tumour

## EBV associated smooth muscle tumour

- While EBV-associated smooth muscle tumours typically occur in immunocompromised individuals, their presentation in bone is exceedingly rare.
- Previous studies suggest that these tumours do not correlate well with traditional histological features and are unlikely to metastasize. Their biological behavior, although not well documented, generally indicates a benign nature
- The differential diagnosis for bone lesions in post-transplant patients is broad, but imaging and a low Ki-67 proliferation index of less than 5% suggests that this lesion is more likely to be stable rather than progressive
- The multidisciplinary approach will ensure comprehensive care, especially considering potential complications related to his immunosuppressive therapy.

Department of Musculoskeletal Radiology, Royal Orthopedic Hospital, Birmingham, UK & https://link.springer.com/journal/256