

CASE BRIEF

Name: [REDACTED]
 Age: 12 years, Female.
 Address: [REDACTED]
 Contact no: [REDACTED]
 Diagnosis: Right hemipelvis conventional Osteosarcoma
 Date of Diagnosis: 21/08/2021
 Medical Oncologist: Dr. Raghuram
 Surgeons: Dr. Pramod S Chinder and Dr. Suraj HP
 Surgery: Limb salvage surgery- Internal hemipelvectomy
 Date of Surgery: 18/01/2022

BRIEF SUMMARY OF THE EVENTS:

DATE	EVENTS	FINDINGS
July 2021	Right hip-Pain and swelling	Limping while walking. H/O loss of weight.
21 st Aug 2021	MRI	Likely Osteosarcoma. DDX- Ewing sarcoma.
6 th Oct 2021	PET CT Scan	The soft tissue measures 5 X 6 X 9.5 cms (along the anterior aspect) and 11 X 4.5 X 10cms (along the posterior aspect) with SUV max of 9.6
8 th Oct 2021	J Needle Biopsy	Likely of malignant neoplasm.
Chemotherapy: On Neoadjuvant chemotherapy – As per EURAMOS protocol Cisplatin, Doxorubicin, Methotrexate.		
28 th Dec 2021	Post chemo- MRI	The soft tissue component measures approximately 12 X 5 X 10cms (Previously 12 X 5 X 10.5cm) in the posterior aspect and 7.3 X 6.5 X 10.4cms (Previously 8 X 7 X 10.9cms along the anterior aspect.
17 th Jan 2022	Embolization	Pre operative tumor embolization.
18 th Jan 2022	Surgery	Internal hemipelvectomy (Limb salvage surgery more than 8 hours)
18 th Jan 2022	HPE	Features are of a conventional osteosarcoma, chondroblastic variant. Necrosis: Identified, 15% of tumor. Pathologic stage: ypT1b ypN0

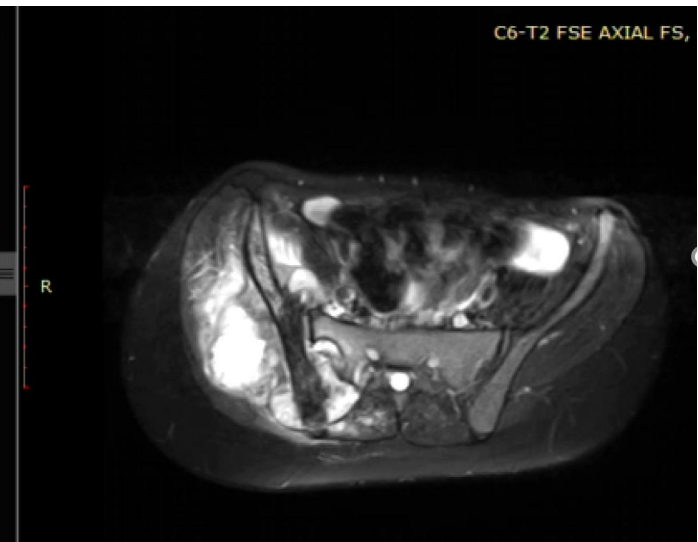
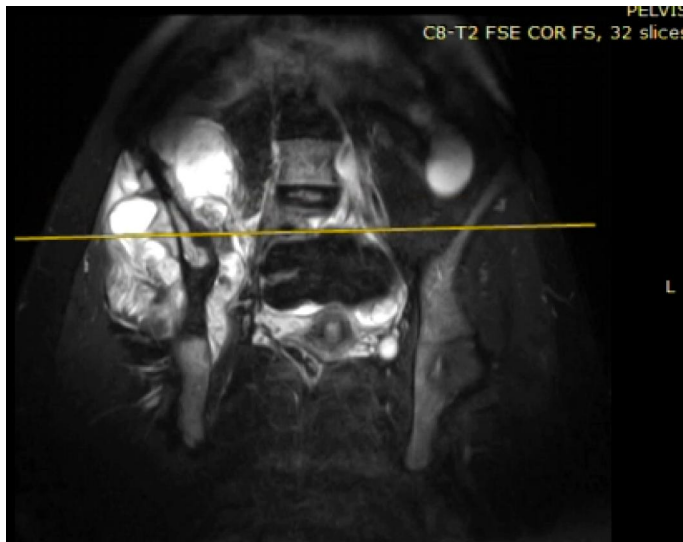


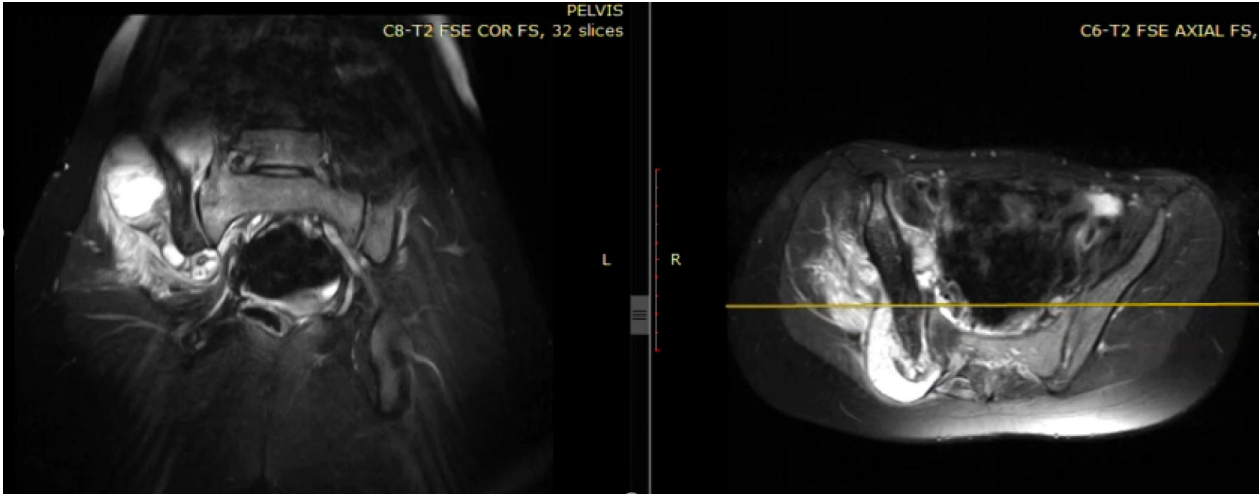
X-RAY IMAGES: 20/07/2021

08/10/2021



MRI IMAGES: 21/08/2021

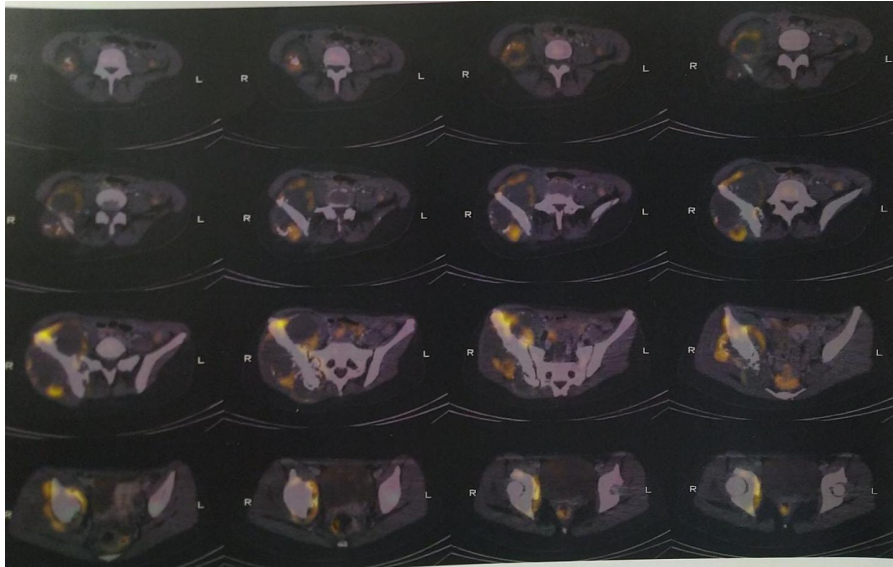




Findings:

- 1 Right iliac wing heterogenous signal intensity bone marrow lesion with areas of possible sclerosis, hair on end type of periosteal reaction and associated huge soft tissue swelling extending to ipsilateral sacroiliac joint eroding the sacrum and to the sciatic fossa likely Osteosarcoma. DDx- Ewing sarcoma.

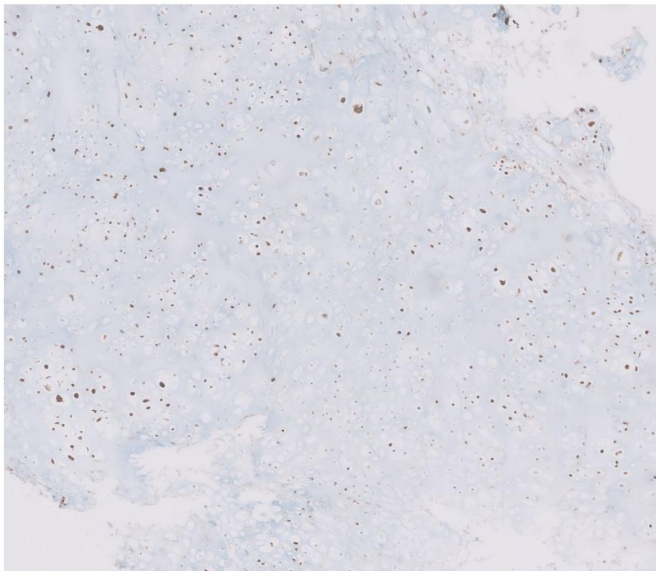
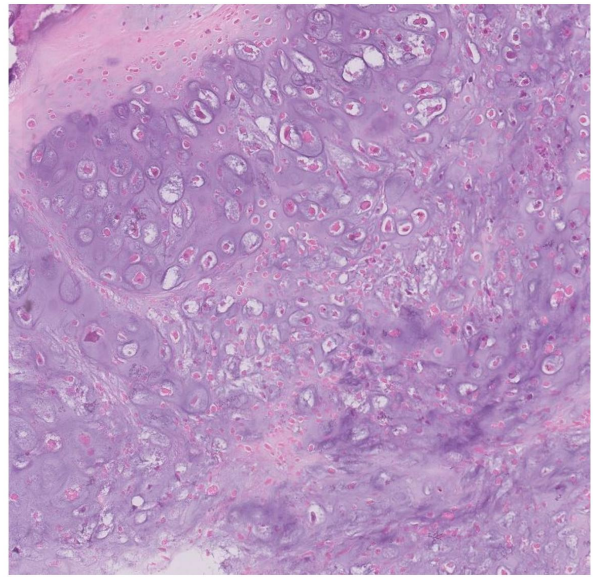
PET CT IMAGES: 06/10/2021



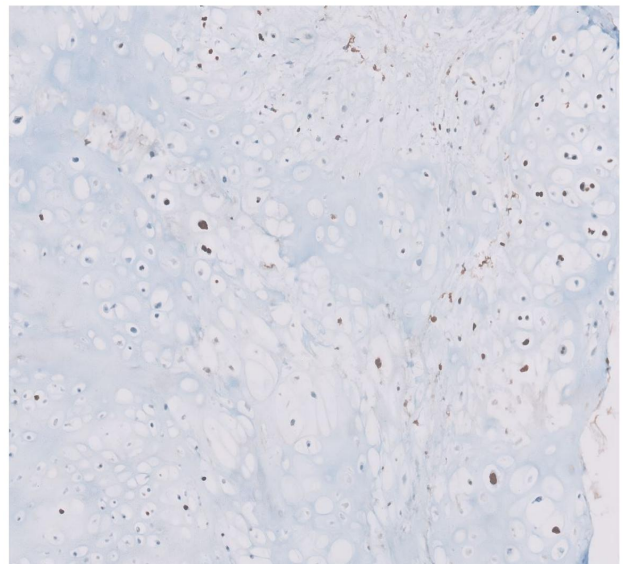
Findings:

- 1 Large area of sclerosis with periosteal reaction and associated soft tissue seen involving the right iliac bone extending into the acetabulum and articular aspect of the right SI joint.
- 2 The soft tissue measures 5 X 6 X 9.5 cms (along the anterior aspect) and 11 X 4.5 X 10cms (along the posterior aspect) with SUV max of 9.6
- 3 There is scalloping with sclerosis along the articular surface of the sacrum (Right SI joint) Right hip and left SI joint is normal.
- 4 Subcentimeter sized bilateral inguinal lymphnodes with no significant FDG uptake.

HISTOPATHOLOGY IMAGES (J Needle Biopsy) 08/10/2021



S-100



Ki67

Findings:

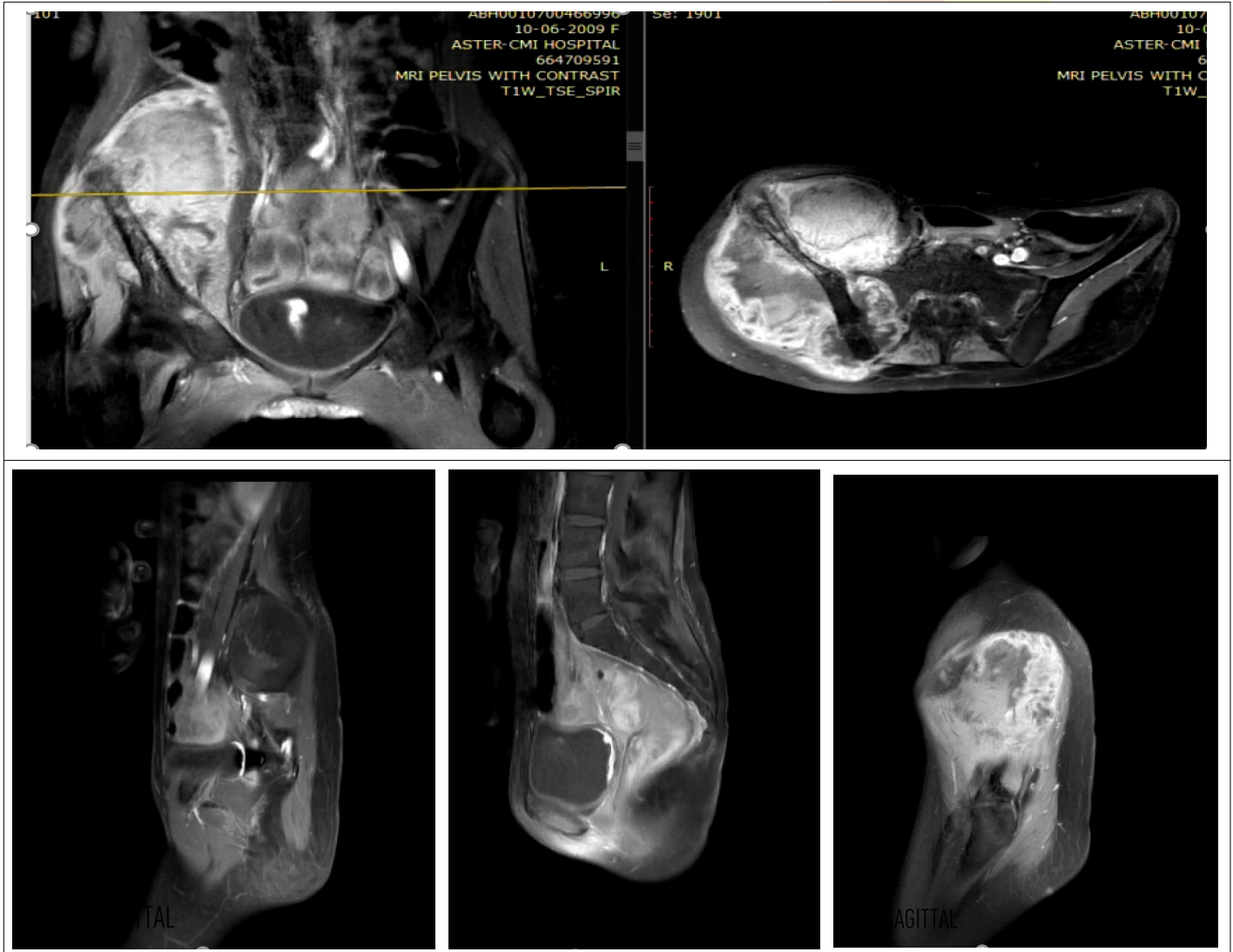
1	Right pelvic bone lesion- The current biopsy shows predominant chondroid neoplasm with significant proliferation index, likely of malignant neoplasm.
IHC	The chondrocytes show moderate to strong expression of S-100. Ki67 index is 10-12%

CHEMOTHERAPY

1	On Neoadjuvant chemotherapy – As per EURAMOS protocol Cisplatin, Doxorubicin, Methotrexate.
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MRI- POST CHEMO IMAGES: 28/01/2022

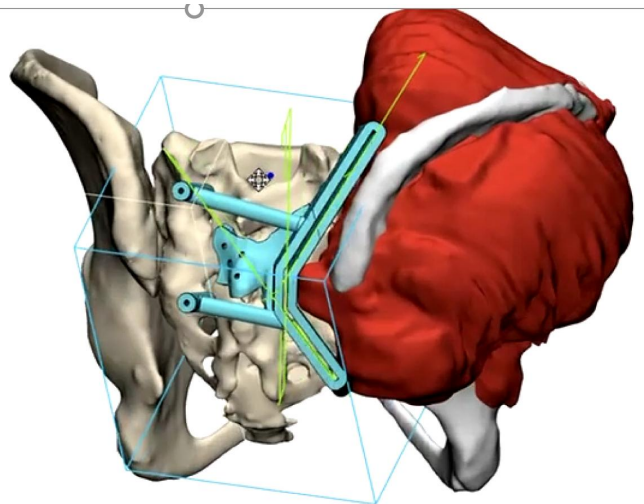
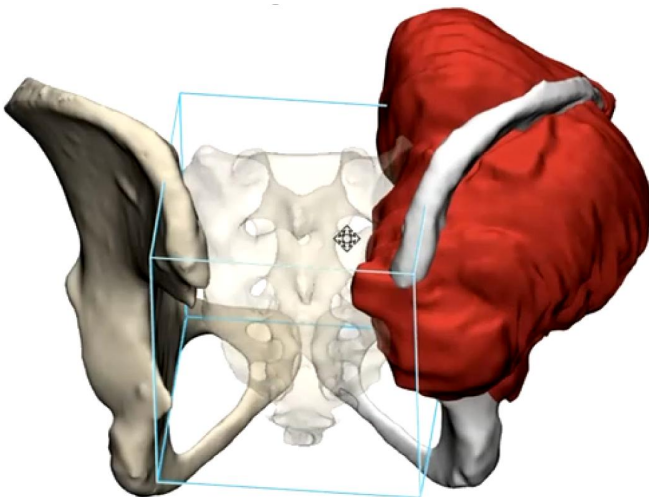
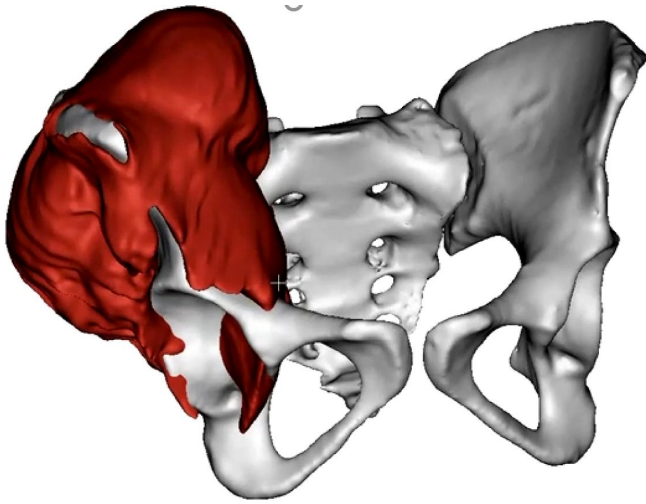
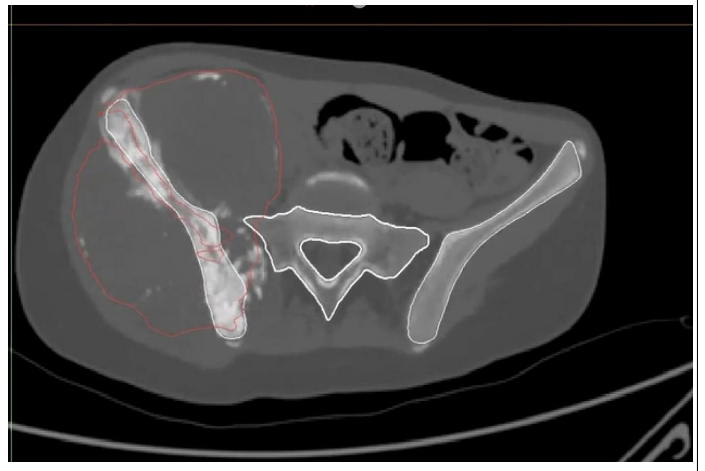
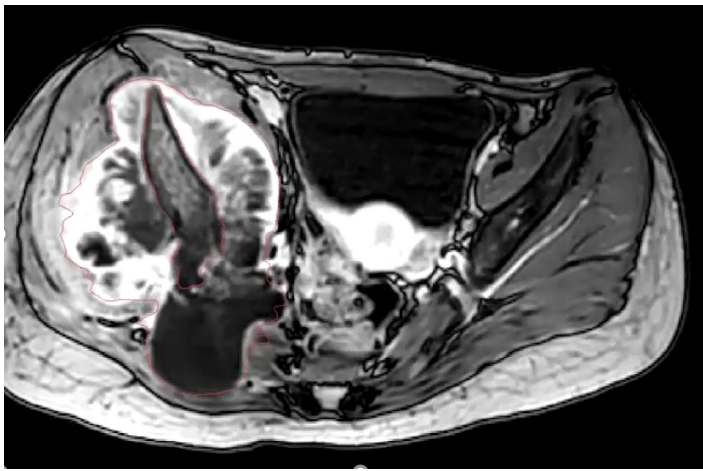


Findings:

- 1 Persistent sclerosis with sunburst periosteal reaction and heterogeneously enhancing large soft tissue component is seen in the right iliac bone. It extends along the anterior and posterior aspect of the right iliac bone. The soft tissue component measures approximately 12 X 5 X 10cms (Previously 12 X 5 X 10.5cm) in the posterior aspect and 7.3 X 6.5 X 10.4cms (Previously 8 X 7 X 10.9cms along the anterior aspect.

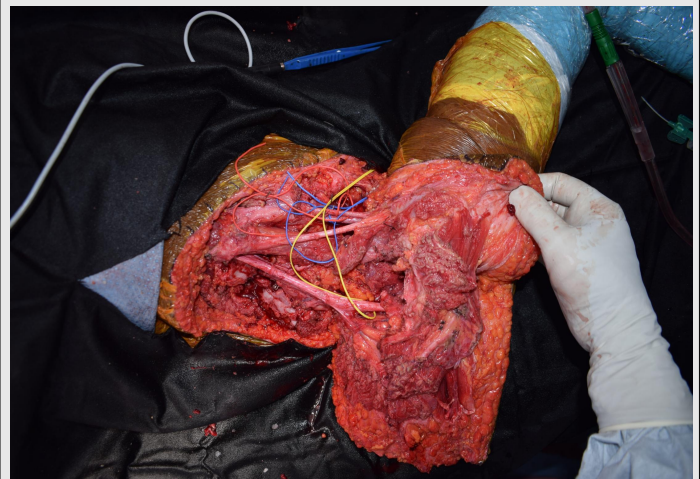
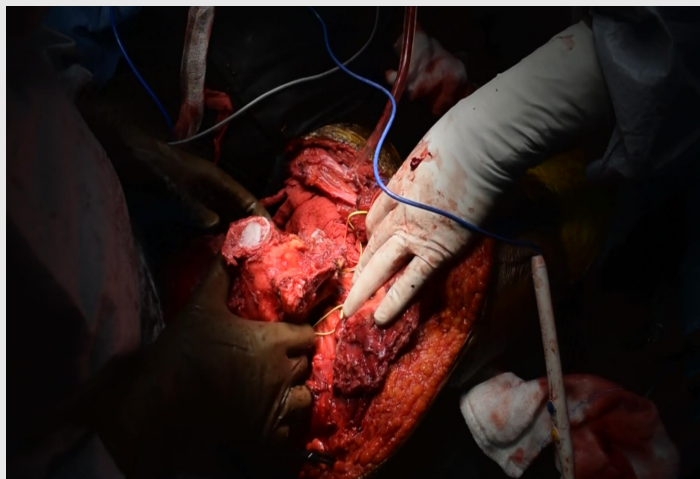
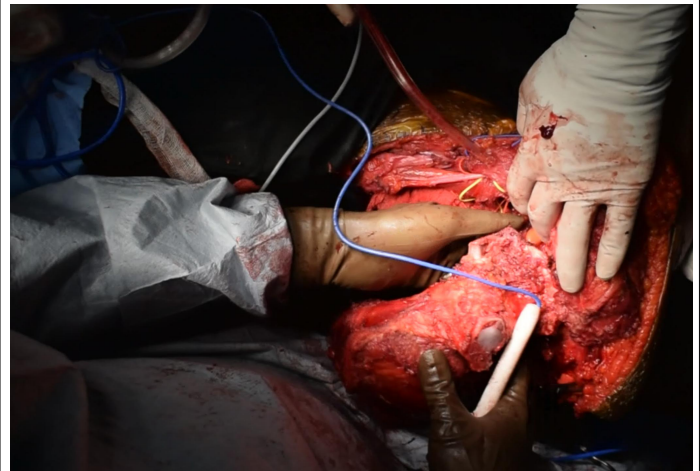
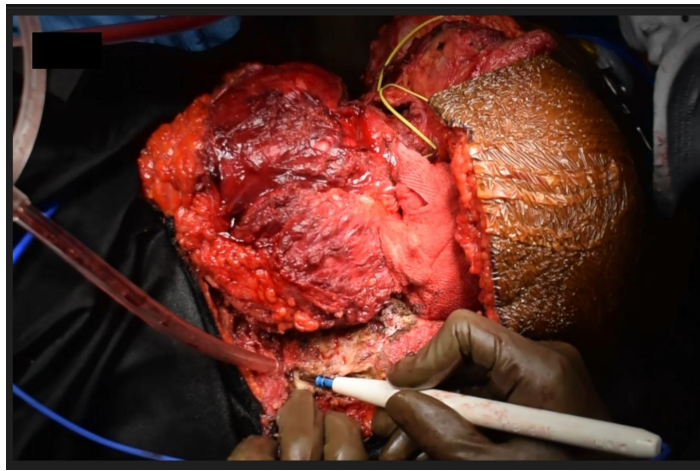
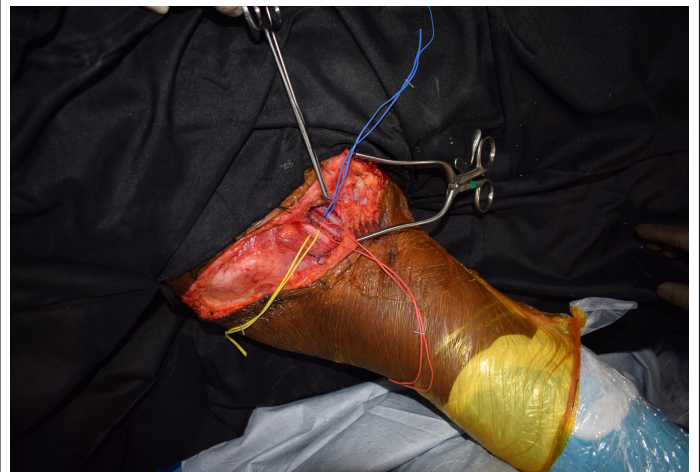


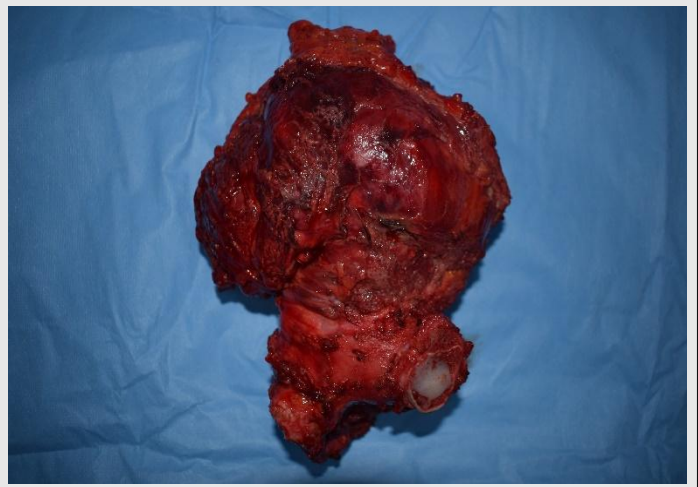
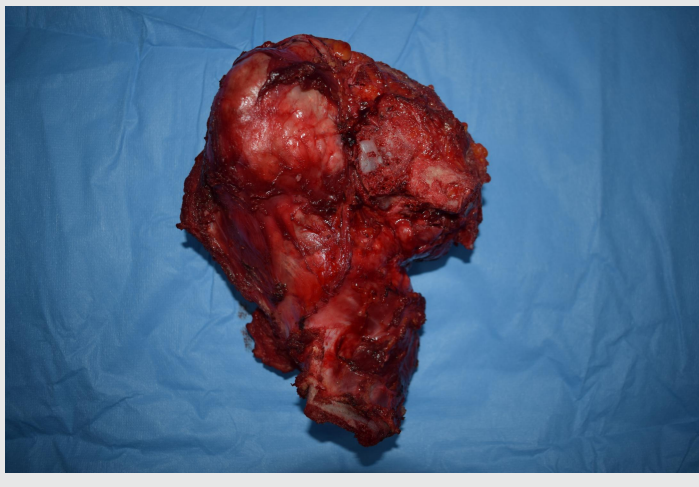
3D PLANNING





OPERATIVE IMAGES: 18/01/2022





Findings:

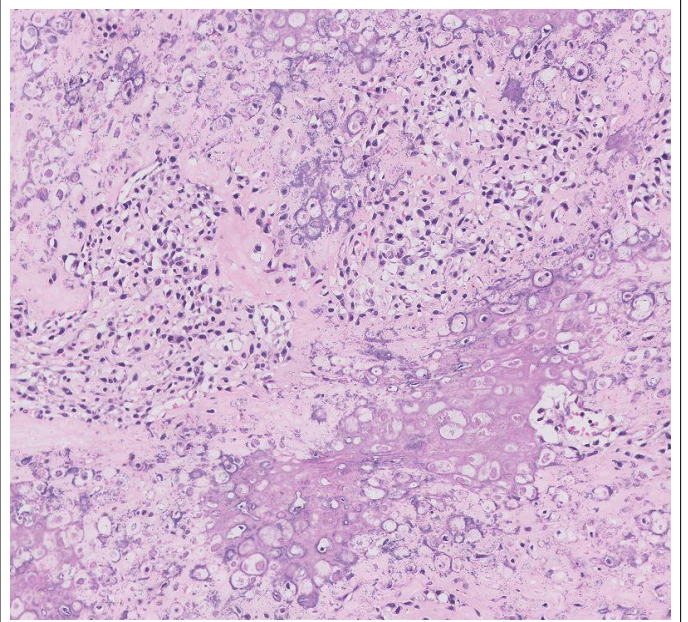
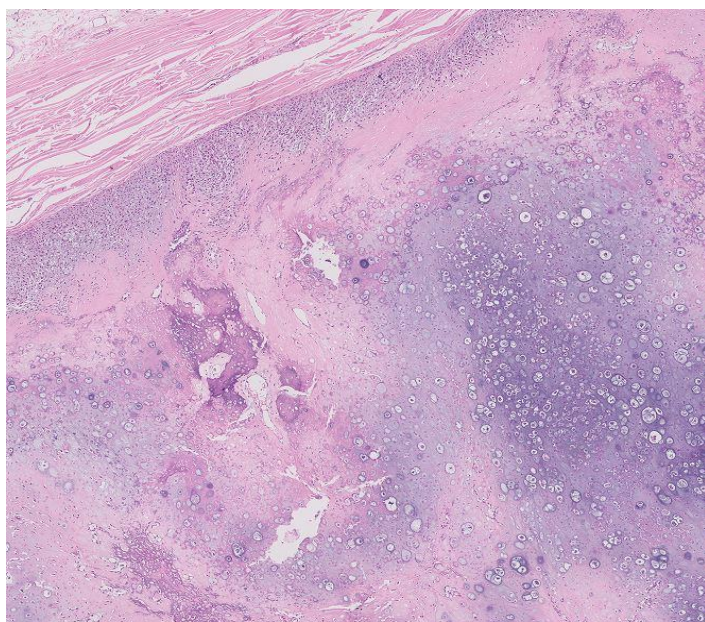
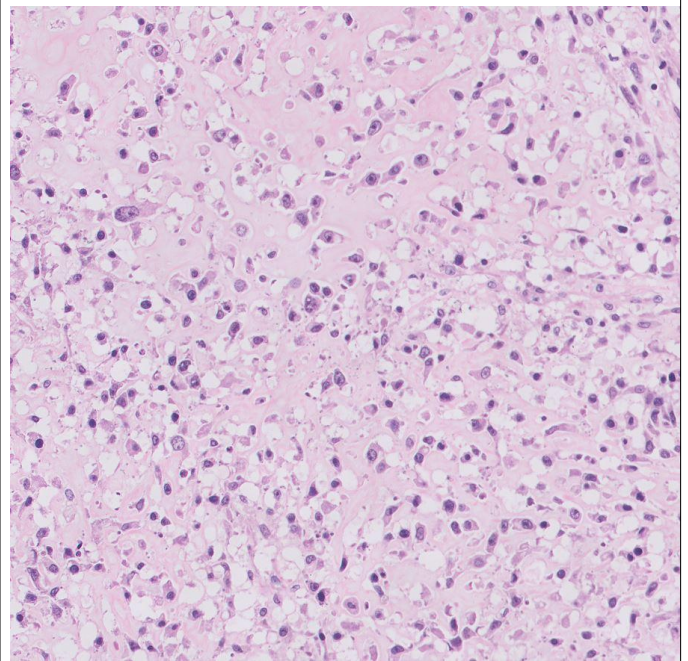
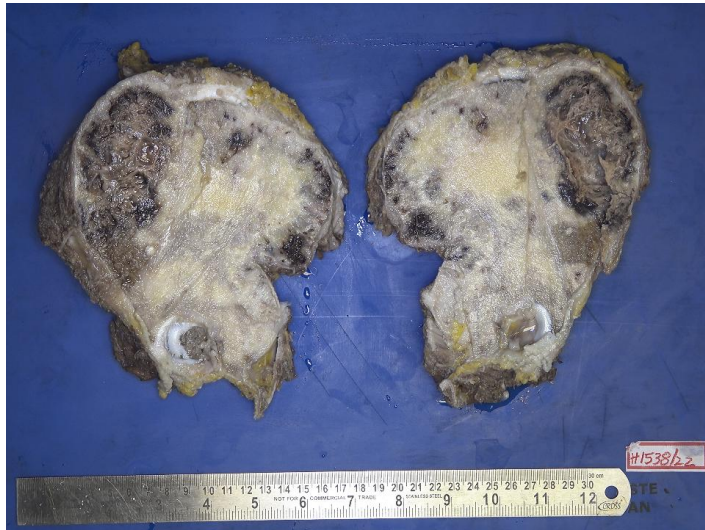
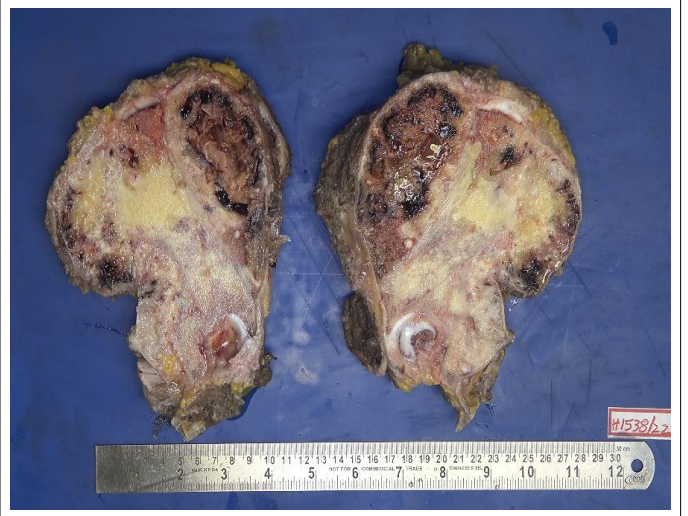
- 1 Femur cut taken at the greater trochanter. S2, S3 nerve roots sacrificed. Dural tear at S1.
- 2 Tumor removed enbloc. No spillage and no major neurovascular deficits.

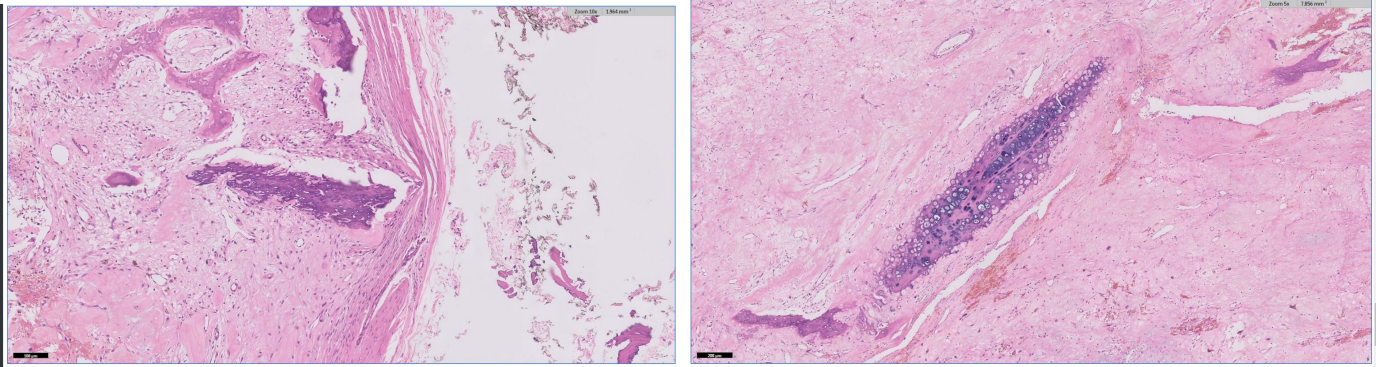
POST-OP X-Ray: 22/01/2022





HISTOPATHOLOGY and GROSS IMAGES 18/01/2022:





Findings:

1	Right hemipelvis, post 2 cycles of neo-adjuvant chemotherapy: Features are of a conventional osteosarcoma, chondroblastic variant.
2	Resected bone and soft tissue margins are free of tumor. Gross Examination: Received specimen of bony and soft tissue measuring 18x16x10 cm. Cut section shows variegated tumor with central yellow areas and peripheral hemorrhagic areas, focal cystic areas noted, cyst measuring 4 x 2 cm. The tumor measures 15 x 12.5 x 11 cm. The tumor is appearing to focally infiltrating adjacent fascia and skeletal muscle.
3	Necrosis: Identified, 15% of tumor. Pathologic stage: ypT1b ypN0 Right superficial inguinal lymph node: Free of metastatic tumor deposits. (0/1)

PROPOSED RECOMMENDATION AS DISCUSSED IN TYR MULTIDISCIPLINARY SARCOMA TUMOUR BOARD:

1	All resected margins are negative for tumour.
2	Necrosis rate for Neo-adjuvant chemotherapy: 15% of the tumor.
3	Discussion: In view of close margin around the sacrum, patient is advised radiation to the sacral area along with adjuvant chemotherapy.
4	To review once in 3 months for every 2 years and for every 6 months for next 3 years.

OUR MDT TEAM MEMBERS:

NAME	DESIGNATION
Dr. Pramod Chinder	Consultant Orthopaedic Oncosurgeon
Dr Suraj H P	Orthopaedic Oncosurgeon
Dr. Anto	Fellow- Orthopaedic Oncology
Dr. Amar	Fellow- Orthopaedic Oncology
Dr. Kunal	Consultant Oncopathologist
Dr. Aparna	Consultant Oncopathologist



Dr. Imran	Consultant Oncopathologist
Dr. Kumaraswamy	Consultant Radiation Oncologist
Dr. Vikram Maiya	Consultant Radiation Oncologist
Dr. Shivakumar	Consultant Radiologist
Dr. Vijay Agarwal	Consultant Medical Oncologist
Dr. Raghuram	Paediatric Medical oncologist
Dr. Intezar	Paediatric Medical Oncologist

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Mrs. Veena	Coordinator	9148663925

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Checked by: Dr.Pramod.S.Chinder