



## CASE BRIEF

Name: [REDACTED]  
Age: 1 year, Female  
Address: [REDACTED]  
Contact no: [REDACTED]  
MRD No: 185458  
Diagnosis: Ewing's sarcoma  
Date of Diagnosis: 29/09/2020  
Surgery: Limb salvage surgery more than 8 hours + Allograft & plating + left sided hip prosthesis over the left proximal femur.  
Date of Surgery: 10/04/2021

### BRIEF SUMMARY OF THE EVENTS:

DATE	EVENTS	FINDINGS
26 <sup>th</sup> Sept 2020	Complaints of fever. Noticed pain and swelling. Investigations done.	Medication prescribed and fever subsided. Left sided hip region. Found to have a lesion and was advised to undergo surgery.
28 <sup>th</sup> Sept 2020	MRI	?Intraosseous abscess.
29 <sup>th</sup> Sept 2020	Open biopsy	HPE/IHC- Ewing's sarcoma.
14 <sup>th</sup> Oct 2020	PET Scan	Ewing's sarcoma.

#### Chemotherapy: EUROS regimen

- After 2 cycles of chemotherapy, baby's parents noticed a small swelling over the left sided chemoport area and chemoport removal was done.
- Right-sided chemoport insertion was done in KMC Mangalore. Following which, the patient was given chemotherapy.
- After 5 cycles of chemotherapy, the patient's parents also noticed swelling over the chemoport area and following which the swelling was intermittent and total 8 cycles of



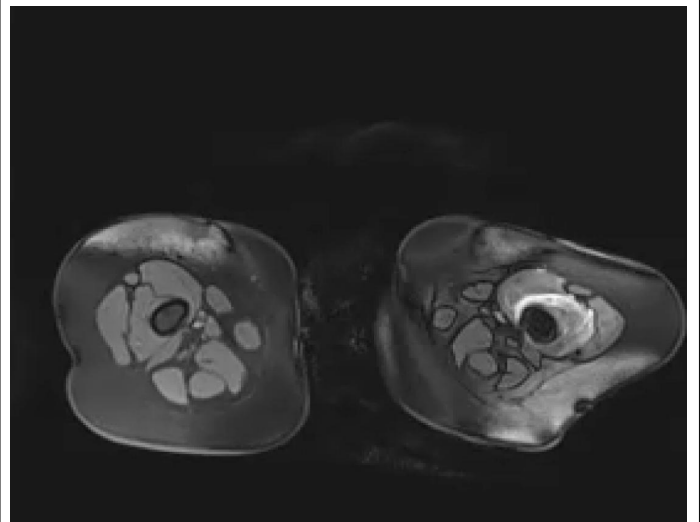
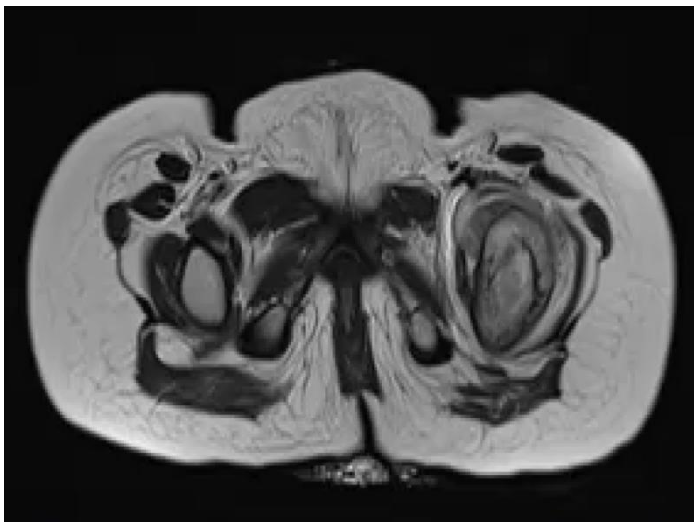
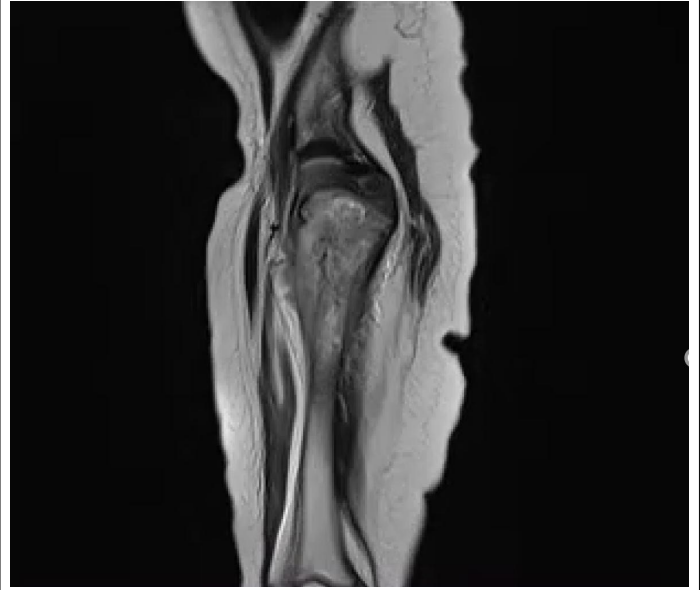
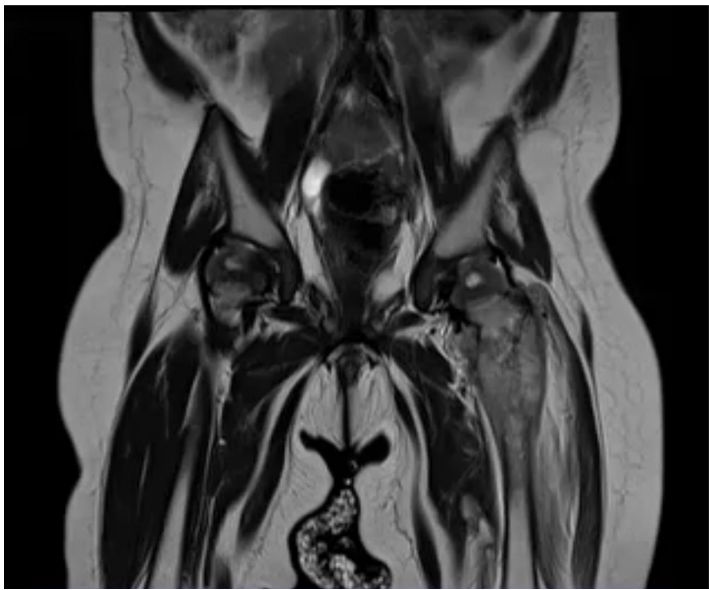
chemotherapy was given.		
27 <sup>th</sup> Mar 2021	MRI	Ewing's sarcoma.
29 <sup>th</sup> Mar 2021	Chemoport removal.	
10 <sup>th</sup> Apr 2021	Surgery	Limb salvage surgery more than 8 hours + Allograft & plating + left sided hip prosthesis over the left proximal femur.
10 <sup>th</sup> Apr 2021	HPE	No residual malignancy seen.

## X-RAY IMAGES: 26/09/2020





MRI IMAGES: 28/09/2020

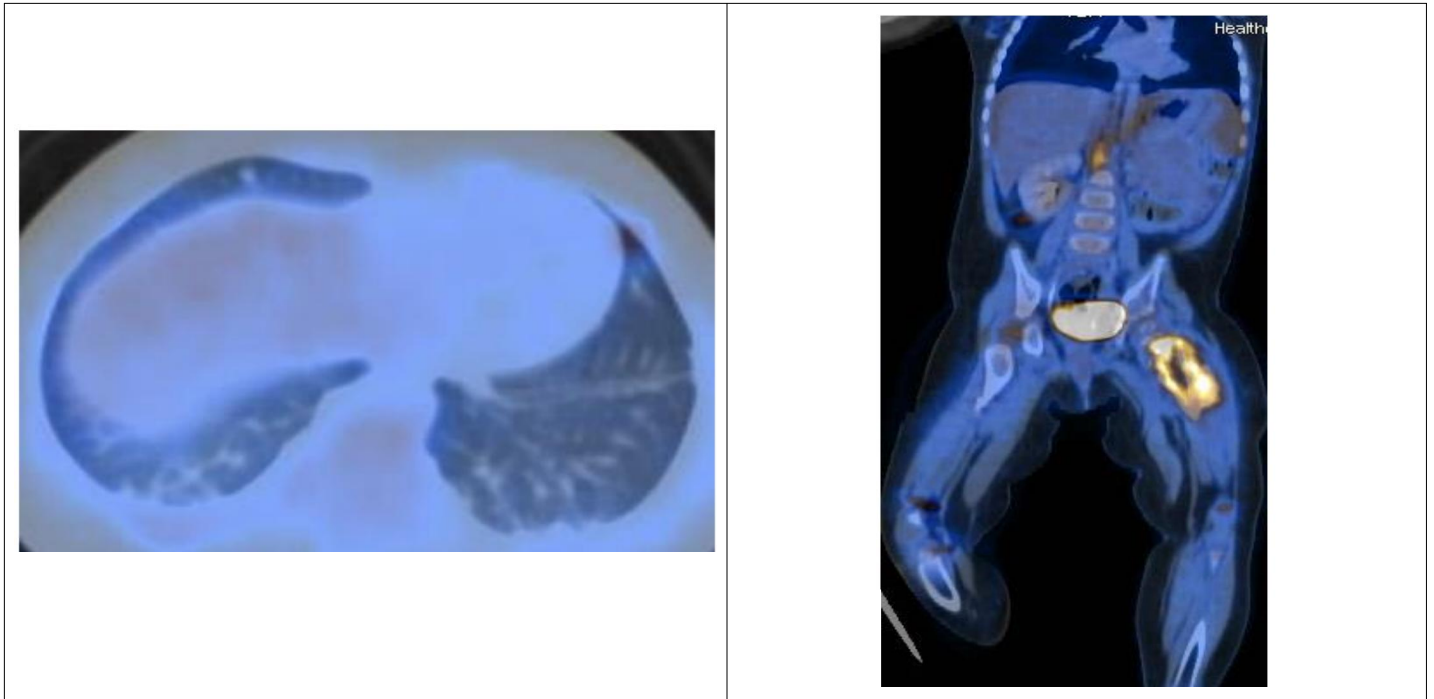


## Findings:

1	Altered signal intensity in the metaphysis and diaphysis of proximal and mid left femur with surrounding soft tissue inflammation- ?Intraosseous abscess.
2	Separation of the periosteum from the cortex circumferentially in the proximal left femur extending till the mid femur diaphysis forming a subperiosteal collection with edema extending along periosteal edema upto distal metaphyses.
3	Features likely of acute osteomyelitis with subperiosteal abscess.
4	Focal oval T1 hypointensity with subtle peripheral enhancement along anterior cortex extending into the left vastus lateralis and intermedius-s/o forming abscess.



PET CT IMAGES:14/10/2020



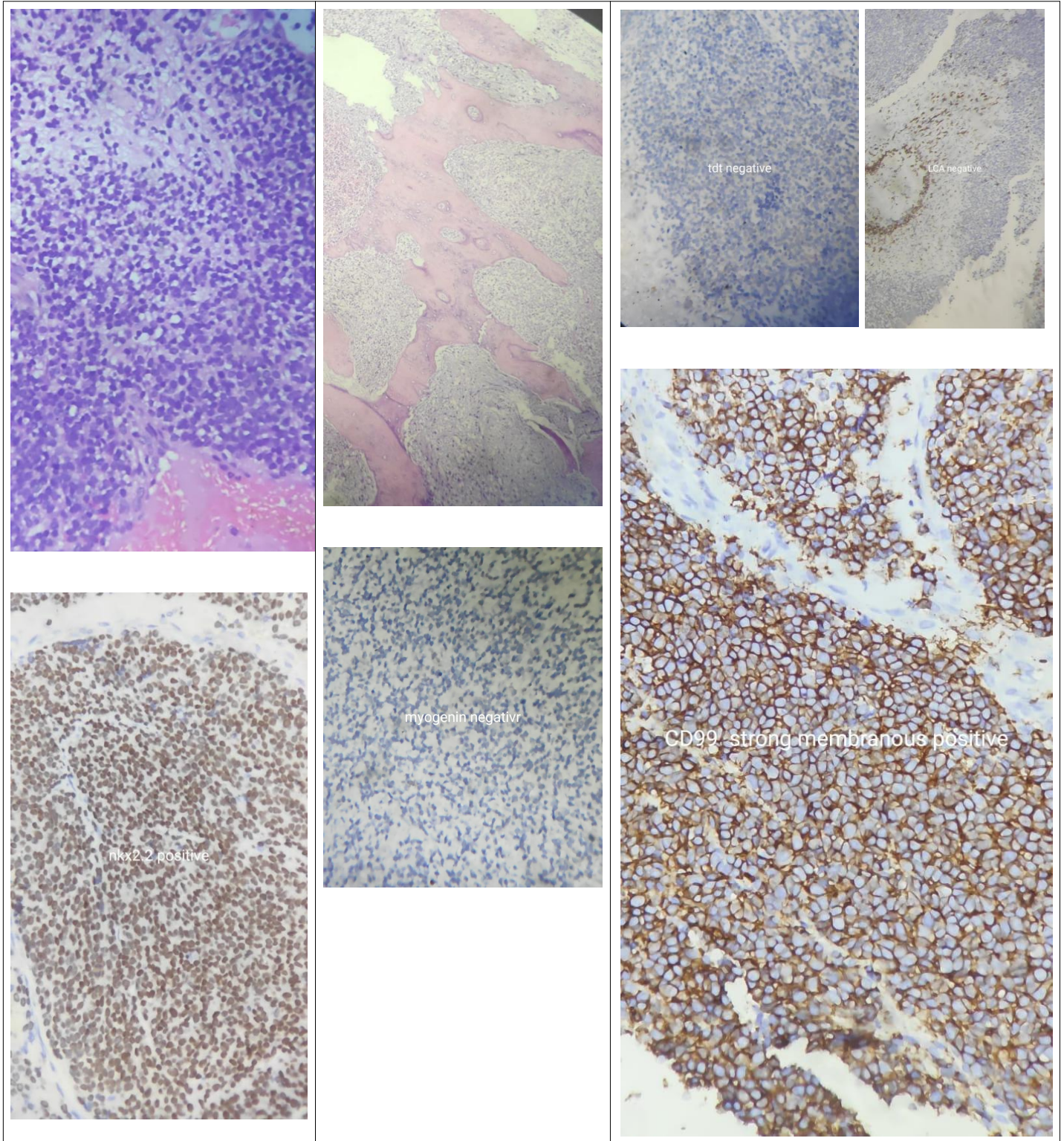
**Findings:**

1	3.5 x 4.0 x 5.7 cm metabolically active permeative osteolysis of the left proximal femoral metadiaphysis with aggressive periosteal reaction, cortical breach, pathological fracture and enhancing extraosseous soft tissue- biopsy proven Ewing's sarcoma.
2	Atelectasis in bilateral basal lung parenchyma.
3	Few small bilateral upper and right middle lobe lung nodules.





## HISTOPATHOLOGY IMAGES (Slides & blocks for review) 29/09/2020:



### Findings:

- |   |   |
|---|---|
| 1 | Features favour Ewing's sarcoma.<br>Slides and blocks for review- 15/10/2020<br>The morphoimmunophenotype is consistent with Ewing's sarcoma, left proximal femur |
|---|---|

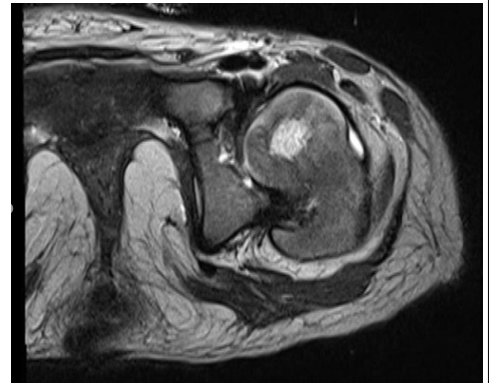
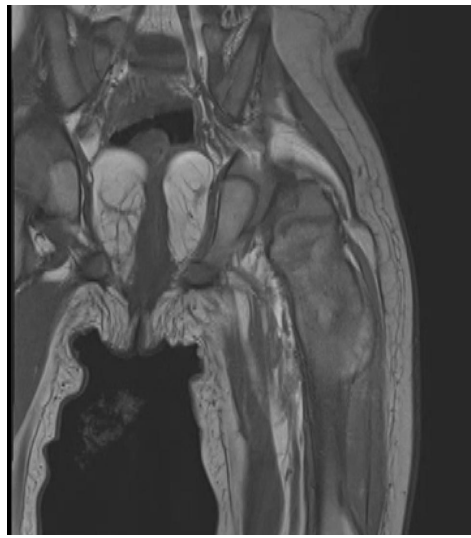




mass.

**IHC:** The round tumor cells shows strong diffuse membranous positivity for CD99 and nuclear positivity for NKX2.2 and are negative for LCA TdT Myogenin.

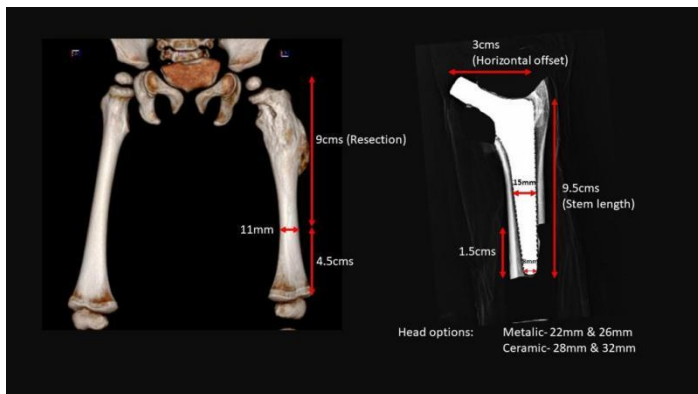
## PRE-OP MRI: (27/03/2021)



## Findings:

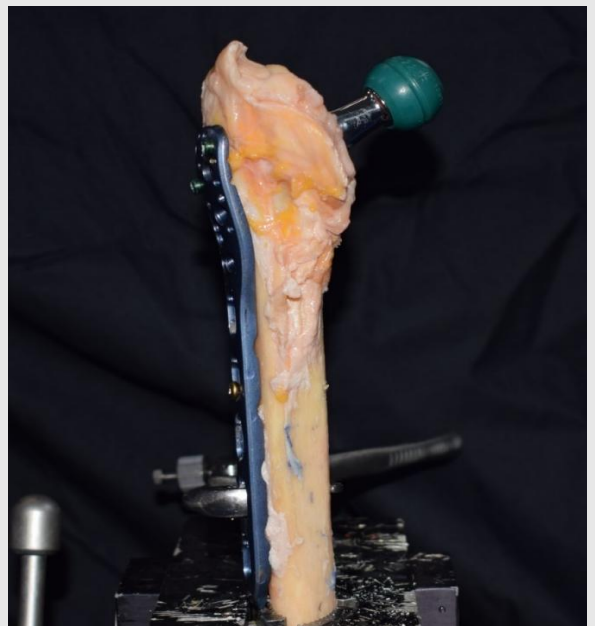
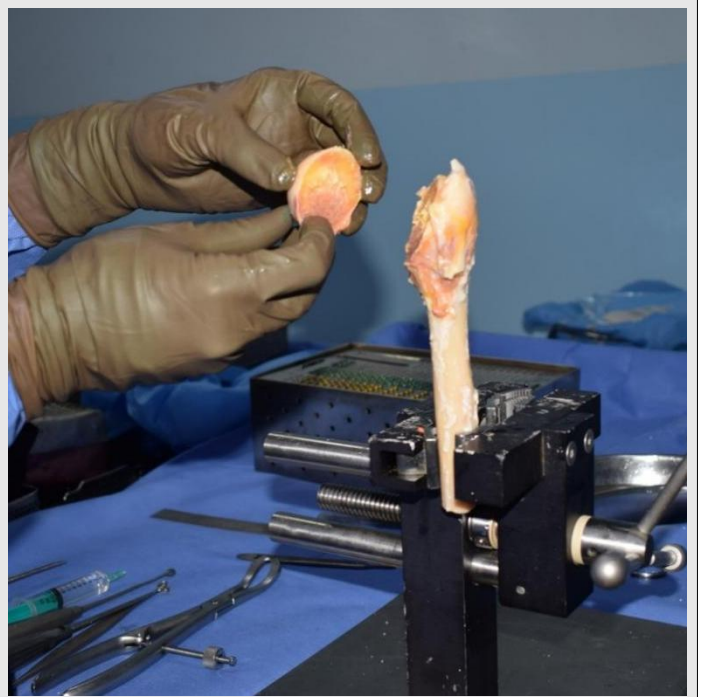
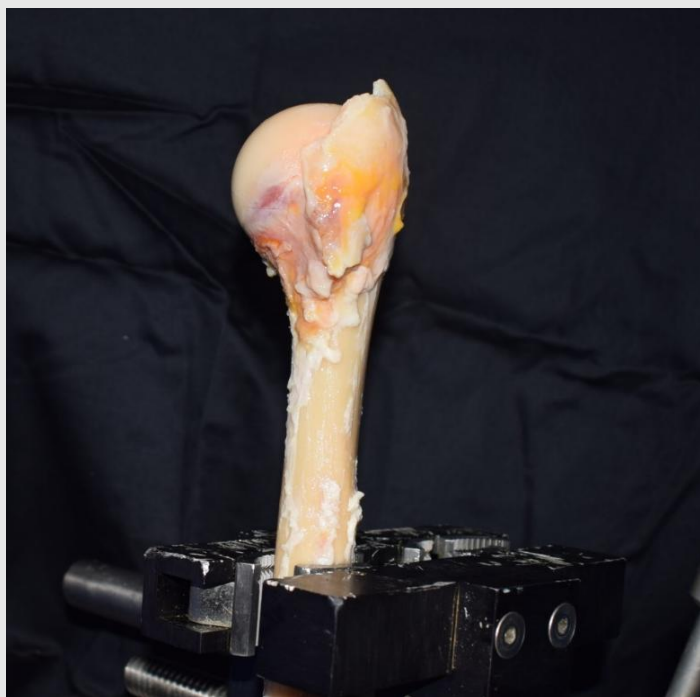
- 1 Cortical thickening and lamellated periosteal reaction in left proximal femoral metadiaphysis -post treatment changes in a known case of Ewing's sarcoma.
- 2 Intramedullary STIR hyperintense collection in proximal metadiaphysis, of concern for secondary infection.

## PRE-OP PLANNING:

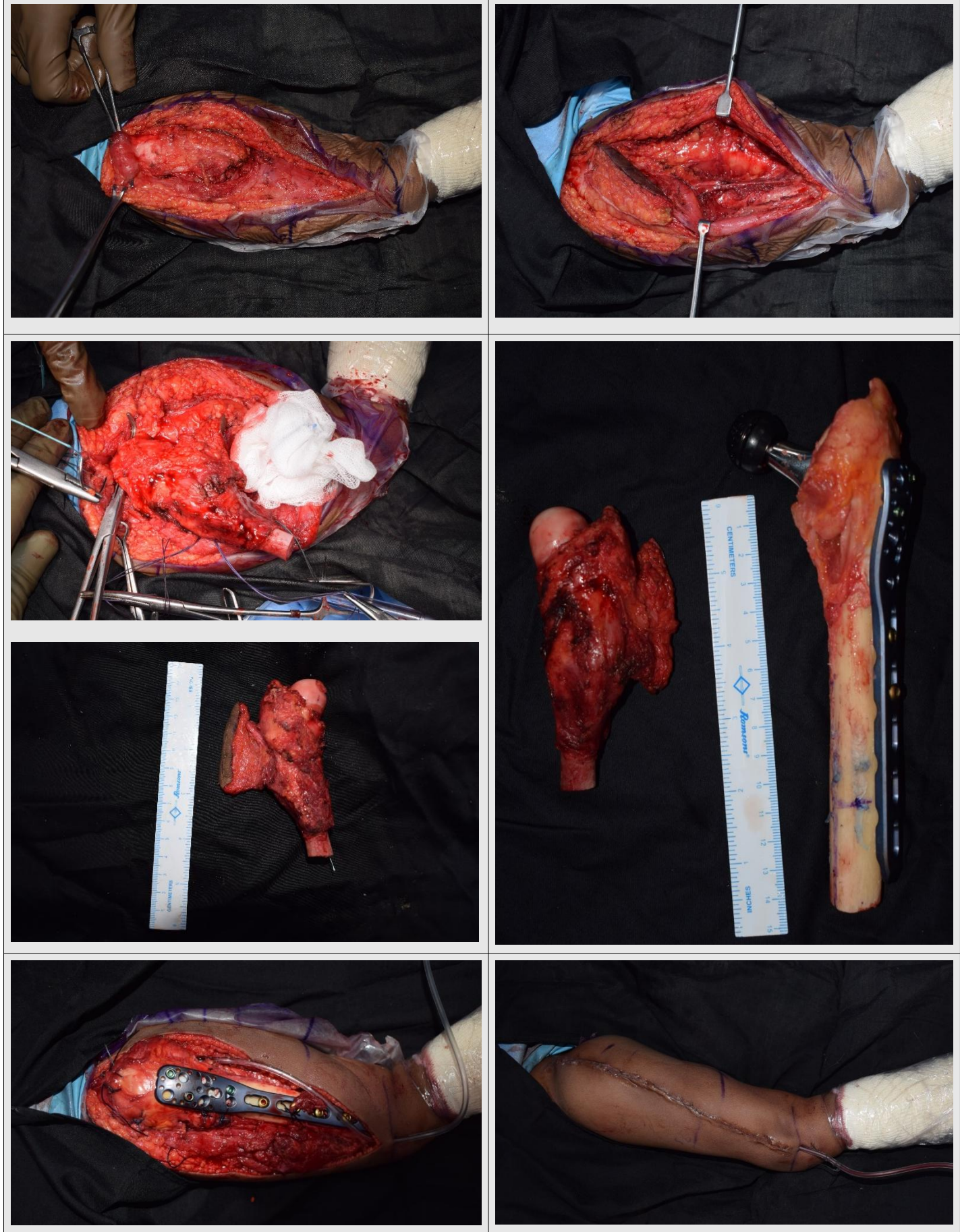




## OPERATIVE IMAGES: 10/04/2021



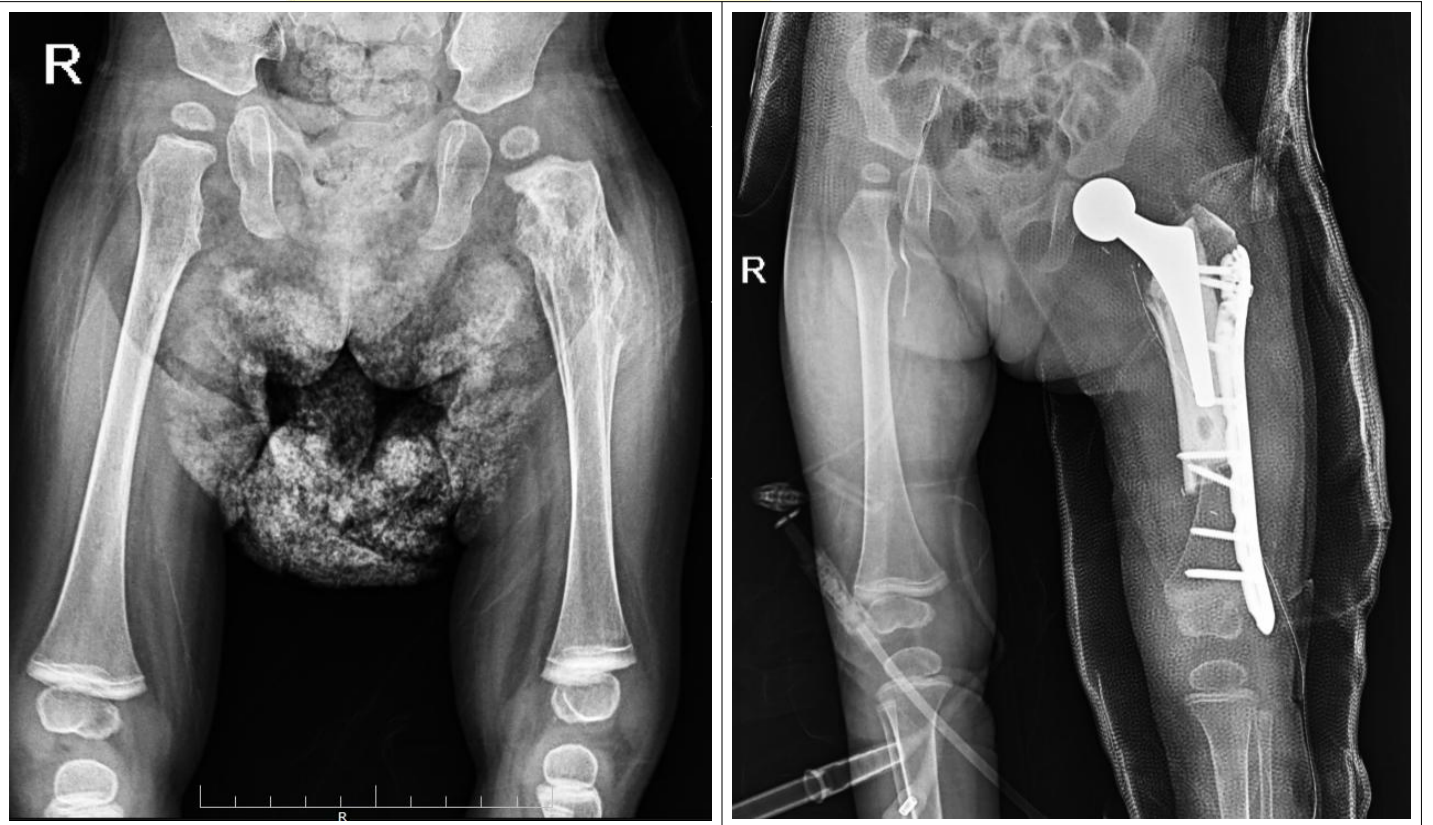






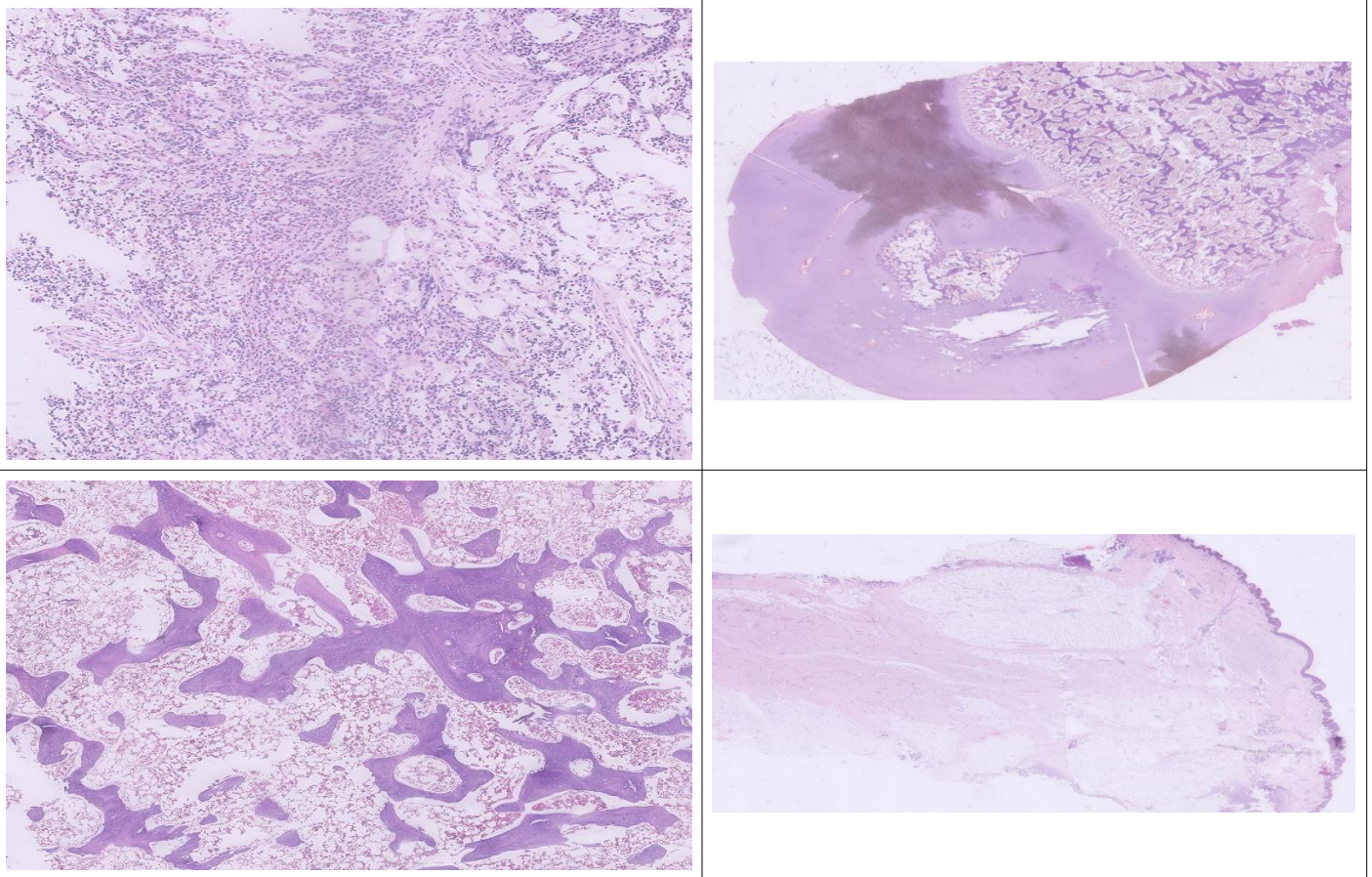


**PRE-OP and POST-OP X-Ray: 28/03/2021 and 11/04/2021**





**HISTOPATHOLOGY IMAGES 10/04/2021:**



**Findings:**

1	No malignant cells seen.
2	No residual malignancy seen. - Left sided distal femur cut Ewing's sarcoma + Resected specimen from left femur.

**PROPOSED RECOMMENDATION AS DISCUSSED IN TYR MULTIDISCIPLINARY SARCOMA TUMOUR BOARD:**

1	Baby. XXXXXXX, diagnosed to have Ewing's sarcoma of the left proximal femur with hip joint. She was given the neo-adjuvant chemotherapy by Dr. Harsha Prasad at Mangalore with the standard Ewing's protocol. Patient responded well there was a decrease in the size of tumor, activity increased. After the case discussion in MDT, she was planned for a limb salvage surgery with a biological reconstruction with allograft prosthetic composite. The fresh frozen allograft was brought from Rizzoli bone bank was used the right humerus to reconstruct the left proximal femur and also attached the abductor tendons.
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	The same was planned and she was admitted on 28/03/2021.
2	<p>She was diagnosed to have severe septicemia complicated by Methicillin resistant staphylococcus aureus infection.</p> <p>Hence, she was given IV antibiotics for about 10days and the case was postponed till 10/04/2021. We did a limb salvage surgery on 10/04/2021 were the left femur tumor was removed and reconstructed using the allograft prosthetic composite with the smallest exitor stem and the smallest head and no proline mesh was used and muscles were reconstructed and wound was closed. Post-operatively patient did not have any significant events.</p> <p>After 2 weeks when wound was inspected there was a small gaping that was freshen and the culture reports showed no infection and the wound was sutured using monocryl and 1 ½ hip spica was put for the child and discharged home comfortably.</p>
3	<b>Discussion:</b> In the tumor board meeting- she should continue the chemotherapy at KMC Mangalore with Dr. Harsha Prasad and the histopathology is updated below.
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
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Dr Suraj H P	Orthopaedic Oncosurgeon
Dr.Srinath D	Orthopaedic Oncosurgeon
Dr. Sreeraj.	Orthopaedic Oncosurgeon
Dr. Aparna	Consultant Oncopathologist
Dr. Kunal	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



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Mrs. Veena	Secretary	9148663925

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Checked by: Dr.Pramod.S.Chinder