

Supplementary materials

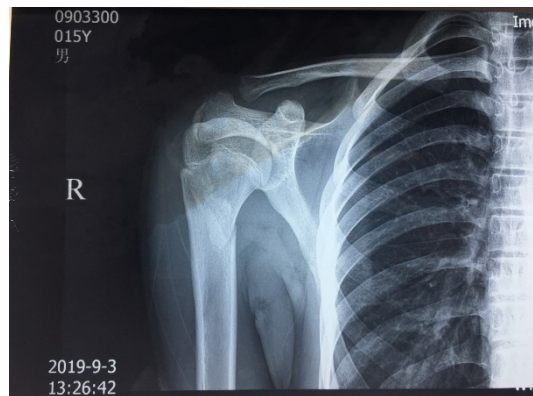


Fig S1. A Preoperative X-ray of a 15-year-old male patient was misdiagnosed as of proximal humerus.

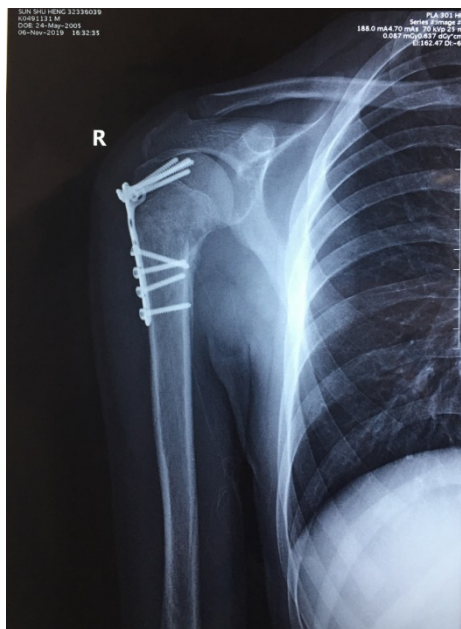


Fig S2. A Postoperative anteroposterior X-ray of the 15-year-old male patient with internal plate fixation for fractures of proximal humerus



Fig S3. A Postoperative lateral X-ray of the 15-year-old male patient with internal plate fixation for fractures of proximal humerus



Fig S4. A Postoperative MRI of the 15-year-old male patient diagnosed pathological fracture of osteosarcoma of proximal humerus.



Fig S5. A Postoperative anteroposterior X-ray of the 15-year-old male patient underwent artificial shoulder joint replacement.