

Case Discussion Broken Implan Removal

1. What is the definition of non-union in bone fractures?

- A) Complete fracture healing within 6 weeks
- B) Failure of the fracture to heal after 6 months
- C) Fracture healing with bone grafting
- D) Partial healing of the fracture

2. Which of the following is NOT a common cause of non-union?

- A) Infection
- B) Adequate immobilization
- C) Inadequate blood supply to the fracture site
- D) Mechanical instability

3. Which type of non-union occurs due to a lack of healing at the fracture site without any significant callus formation?

- A) Hypertrophic non-union
- B) Atrophic non-union
- C) Pseudoarthrosis
- D) Pathological non-union

4. What is the first step in diagnosing non-union?

- A) Bone biopsy
- B) Physical examination and radiographic imaging
- C) CT scan and MRI
- D) Bone scintigraphy

5. Which of the following is a common treatment option for non-union fractures?

- A) Short-term use of a splint
- B) Bone grafting and/or internal fixation
- C) Physical therapy alone
- D) No treatment, as the fracture will eventually heal

6. Which of the following factors is most likely to contribute to an atrophic non-union?

- A) Poor nutritional status and smoking
- B) Adequate blood supply to the fracture site
- C) Early mobilization after fracture
- D) Stable fixation and appropriate rehabilitation

7. **Which imaging modality is most useful in evaluating bone healing and identifying non-union?**

- A) X-ray
- B) MRI
- C) Ultrasound
- D) Bone scan

8. **What is the key distinguishing feature between hypertrophic and atrophic non-union?**

- A) Infection at the fracture site
- B) Presence or absence of callus formation
- C) Type of surgical fixation used
- D) The age of the patient

9. **Which of the following is NOT a risk factor for non-union of fractures?**

- A) Diabetes
- B) Obesity
- C) Advanced age
- D) Frequent physical activity

10. **Which of the following is a potential complication of non-union fractures if left untreated?**

- A) Reduced blood pressure
- B) Chronic pain and disability
- C) Hypercalcemia
- D) Increased mobility of the joint