

QUESTION 6

The slides on the left and right are images taken of the forelimb of a 5 month old Staffordshire bull terrier with forelimb lameness.

1. List the radiographic abnormalities on these films (3 pts)
 - a. humeroradial incongruity (short radius)
 - b. distal radial epiphyseal deformity (under-development of the lateral portion) (= partial closure)
 - c. carpal valgus
 - d. partial closure of the distal ulnar physis
 - e. widening/flaring of the distal ulnar metaphysis
 - f. incongruity of the humero-ulnar joint (increased proximal joint space width)

2. What is your diagnosis (2 pts)?
 - a. Partial premature closure of the distal radial growth plate
 - b. Short radius syndrome

3. What clinical signs might you expect to find on physical examination of this dog (3pts)?
 - a. 1/2 mark each)
 - b. Elbow thickening / effusion
 - c. Pain on manipulation of the elbow
 - d. Antebrachiocarpal joint thickening / effusion
 - e. Restricted flexion of the carpus
 - f. Carpal pain
 - g. Carpal valgus
 - h. Muscle atrophy

4. List 4 options for the surgical management of this case (2 pts)?
 - a. Radial lengthening – osteotomy and acute distraction (+ fixation)
 - b. Radial and ulnar osteotomy and distraction osteogenesis
 - c. Ulnar shortening (ostectomy and fixation)Ulnar shortening and radial lengthening

