List of Figures

Chapter 4 ..............................................................................................................Page No

Fig 4.1 Demonstrating basic model of CT.................................................................37
Fig 4.2 Demonstrating Spiral CT and its advancements.........................................38
Fig 4.3(Left clavicle: Superior surface).................................................................40
Fig 4.4(Left clavicle: Inferior surface).................................................................40
Fig 4.5(CT images demonstrating the development stages of clavicle)...............44

Chapter 5

5.1:Histogram showing stage-wise distribution of subjects in present study.........51
5.2:Age distribution of male and female subjects in stage 1.................................55
5.3:Age distribution of male and female subjects in stage 2.................................56
5.4:Age distribution of male and female subjects stage 3.....................................57
5.5:Age distribution of male and female subjects stage 4.....................................58
5.6:Age distribution of male and female subjects stage 5.....................................59
5.7:Percentage differences (staging results) with respect to slice thickness as compared to minimum slice thickness (1mm)...........................................................................68
5.8:Subject A: Presenting difference in staging with slice thickness..................69
5.9:Subjects presenting different stages at different slice thickness....................70
5.10:Age-wise distribution of the subjects............................................................71
5.11:Bar graphs shows comparative staging of Digital X-ray with CT as described above and illustrated in tables 5.17 and 5.18..................................................76
5.12:Example showing similar results with CT and X-ray...................................78
5.13:Example showing different results with CT and X-ray...............................79
5.14:Percentage dose reduction (CTDIvol) with respect to BMI of subjects using AEC (CARE Dose 4D) technique .................................................................83
5.15:CT images showing quality with fixed (150) mAs.......................................84
5.18:CT images showing quality with reduced mAs (AEC technique)...............85

Chapter 6

6.1a:Demonstrating earliest age of onset of stages 2 & 3.................................92
6.1b:Demonstrating earliest age of onset of stages 4 & 5.....................................93
6.2a:Demonstrating latest age of the appearance of stages 1 & 2.........................94
6.2b:Demonstrating latest age of the appearance of stages 3 & 4.......................95

[viii]