

Contents

| Topic | Page No |
|---------------------|---------|
| Detection | I |
| Acknowledgement | II |
| Abstract of English | III |
| Abstract of Arabic | IV |
| List of tables | V |
| List of figure | VI |
| List of Contents | Vii |

CHAPTER ONE

| Topic | Page No |
|---------------------------------|---------|
| 1 - 1 Introduction | 1 |
| 1 - 2 The Problems | 1 |
| 1 - 3 Statement of the problem | 1 |
| 1 - 4 Objective of the study | 1 |
| 1 - 5 Methodology | 2 |
| 1 - 6 Significance of the study | 2 |

Chapter Two

Theoretical back ground and pervious study

| Topic | Page No |
|------------------------|---------|
| 2 - 1 Anatomy | 3 |
| 2 - 1 - 1 The clavicle | 3 |
| 2 - 1 - 2 Scaplula | 4 - 6 |
| 2 - 1 - 3 Humerus | 7 - 8 |
| 2 - 1 - 4 Radius | 9 - 10 |
| 2 - 1 - 5 Ulna | 11 - 12 |
| 2 - 1 - 6 Hand | 13 - 15 |

| | |
|---|---------|
| 2 - 1 - 7 Ossification chart | 16 |
| 2- 1 - 8 Blood vessels of upper limb | 17 |
| 2- 2 Physiology | 18 |
| 2 - 3 Pathology | 19 |
| 2- 3 - 1 Fracture of a cromion scspula | 19 |
| 2- 3 - 2 Fracture of humeral neck | 19 - 20 |
| 2 - 3 - 4 Fracture of elbow | 21 - 22 |
| 2- 3 - 5 Fracture of the shaft of radius andulna | 23 |
| 2- 3 - 6 Green stick fracture | 23 |
| 2 - 3 - 7 Fracture of the lower end of radius (colle's) | 24 |
| 2 - 3 - 8 Smith Fracture | 24 |
| 2 - 3 - 9 Scaphoid Fracture | 24 |
| 2 - 3 - 10 Benntt's Fracture | 24 |
| 2 - 3 - 11 Fracture metacarpal and phalanges | 24 |
| 2 - 4 Previous Study | 25 - 26 |

Chapter Three

Material and Method

| Topic | Page No |
|---------------------------------|---------|
| 3 - 1 technique of upper limbs | 27 - 29 |
| 3 - 2 X -Ray Tube | 30 |
| 3 - 3 The control unit | 30 |
| 3 - 4 Cassettes used | 30 |
| 3 - 5 Intensifying | 31 |
| 3 - 6 Dark Room | 31 |
| 3 - 7 Method of data collection | 31 |

Chapter four
Result and Discussion

| Topic | Page No |
|------------------|---------|
| 4 - 1 Result | 33 - 55 |
| 4 - 2 Discussion | 56 - 57 |

Chapter five

| Topic | Page No |
|-----------------------------------|---------|
| 5 - 1 conclusion | 58 - 59 |
| 5- 2 Recommendation | 60 |
| 5 - 3 Suggestion for future study | 61 |

List of figure

| Figures | Page No |
|--|---------|
| 1. Figure (2 - 1) (a) anterior clavicle (b) posterior clavicle | 3 |
| 2. Figure (2 - 2) (a and b) anterior and posterior surface of scapula | 6 |

| | |
|--|----|
| 3. Figure (2 - 3) (a and b) anterior and posterior surface of the humerus | 9 |
| 4. Figure (2 - 4) (a and b) anterior and posterior surface of both radius and ulnar | 11 |
| 5. Figure (2 - 5) bone of hand | 14 |
| 6. Figure (2 - 6) the arteries supply of upper limb | 17 |
| 7. Figure (2 - 7) the veins which supply upper limb | 17 |
| 8. Figure (2 - 8) lymphatic drain of upper limb | 18 |
| 9. Figure (4 - 1) abrgraph shows upper limbs fracture in respect to gender | 33 |
| 10. Figure (4 - 2) shows fracture in respect to causes | 34 |
| 11. Figure (4 - 3) show fracture in respect type | 35 |
| 12. Figure (4 - 4) show fracture in respect to site | 36 |
| 13. Figure (4 - 5) show fracture in respect to complication | 37 |
| 14. Figure (4 - 6) show fracture in respect to technique | 38 |
| 15. Figure (4 - 7) show fracture in respect to film size | 39 |
| 16. Figure (4 - 8) show fracture in respect to age group | 40 |

List of Tables

| Tables | Page No |
|---|---------|
| 1. Table (4 - 1) frequency table show fracture according to gender | 33 |
| 2. Table (4 - 2) frequency table show fracture according causes | 34 |
| 3. Table (4 - 3) frequency table show fracture according to type | 35 |
| 4. Table (4 - 4) frequency table show fracture according site | 36 |
| 5. Table (4 - 5) frequency table show fracture according to complication | 37 |
| 6. Table (4 - 6) frequency table show fracture according to technique | 38 |
| 7. Table (4 - 7) frequency table show fracture according to film size | 39 |
| 8. Table (4 - 8) frequency table show fracture according to age group | 40 |
| 9. Table (4 - 9) frequency table show fracture according to management | 41 |