Experiment number one:

**THE EFFECT OF EXPOSURE FACTORS VARIATION ON THE IMAGE QUALITY**

**Objective:**

The influence of the variation of exposure factors ( KV , mAs and time) on the image quality.

**Procedure:**

Expose the hand position) and vary one factor while the other two factors are constant.

**Effect of KV:**

Select different tube voltage (KV) at constant tube current (mA) and exposure time.

Follow table number 1:

|  |  |  |
| --- | --- | --- |
| time | mA | KV |
| 0.025 | 100 | 45 |
| 0.025 | 100 | 50 |
| 0.025 | 100 | 55 |

**Effect of tube current (mA):**

Select different tube current at constant KV and time.

Follow table 2:

|  |  |  |
| --- | --- | --- |
| time | mA | KV |
| 0.025 | 40 | 50 |
| 0.025 | 100 | 50 |
| 0.025 | 160 | 50 |

**Effect of exposure time at constant KV and Ma.**

Follow table 3:

|  |  |  |
| --- | --- | --- |
| time | mA | KV |
| 0.005 | 100 | 50 |
| 0.01 | 100 | 50 |
| 0.02 | 100 | 50 |