**Application of Brexia – An Italian experimental chest X-Ray scoring system:**

**Evaluation and progress monitoring of COVID-19 pneumonia**

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**ABSTRACT**

**Objective:** To evaluate and monitor Covid-19 Pneumonia in Pakistani population by applying Brexia, an Experimental Italian Chest X-ray Scoring System

**Study Design:** Retrospective Descriptive Cross-Sectional study

**Place and Duration:** Department of Radiology of Combined Military Hospital Malir from 1st March to 30th June2020

**Methodology:** Through non-probability consecutive sampling technique all the standard frontal projections of chest X-Ray of PCR confirmed COVID-19 patients were studied on computer and findings were assessed by applying Brexia (an Experimental Italian Chest X-ray) Scoring System

**Results:** A total of 548 Chest X-Rays were studied. Mean age of patients was 40.79±16.082 years. The mean scores (Brexia score) in recovered patients was 1.91±3.788 and that of deceased was 16.59 ±3.068.By keeping confidence interval 95% and *p* value of 0.01.The *r* forBrexia score versus age was .557(fair) and Brexia score versus clinical output was 0.751(moderate).

**Conclusion:** HighBrexia score is associated with increased in radiological severity of COVID-19 pneumonia and poor outcome.

**Keywords:** COVID-19, Chest X-ray, Scoring, COVID-19 severity, COVID-19 stratification, BREXIA scoring

**How to Cite This:**

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