**Original article:**

**Assessment of Pulmonary function tests in petrol pump workers: A cross sectional study**

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**Abstract:**

**Introduction:** Pulmonary function tests are one of the important tools in assessing efficacy of the respiratory system. Several studies have been carried to assess this issue. The present study was planned to assess and confirm the ill effects of air pollution in petrol pump workers.

**Material and methods:** The subjects who were continuously working in petrol pump industry since more than one year were included in the study. To assess the direct impact of the prevailing atmosphere, subjects those who are exposed directly to actual work area were selected rather than subjects working in the petrol pump office. The written consent was obtained after explaining the study background and implications in their own local language. The control group consisted of subjects from same town with working background in office area . The pulmonary function tests were done by using digital spirometry.

**Results and conclusion:** From present study significant difference in the statistical data. (p < 0.005)between control group and petrol pump workers was noted. All the measured respiratory parameters showed significant results. FEV1, FEV, VC and MVV were analyzed in this assessment study. From present study we may conclude that petrol pump workers are strongly affected by surrounding pollution. Hence some regulations should be formed for protecting them from health hazards.

**Keywords:** FEV1, Vital capacity, MVV