

Impact Analysis of Quality Control Practices in Veterinary Diagnostic Labs in Lahore, Pakistan

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Abstract : More than 75% diseases spreading in the past 10 years in human population globally are linked to veterinary sector. Veterinary diagnostic labs are the powerful ally for diagnosis, prevention and monitoring of animal diseases in any country. In order to avoid detrimental effects of errors in disease diagnostic and biorisk management, there is a dire need to establish quality control system. In current study, 3 private and 6 public sectors veterinary diagnostic labs were selected for survey. A questionnaire survey in biorisk management guidelines of CWA 15793 was designed to find quality control breaches in lab design, personal, equipment and consumable, quality control measures adopted in lab, waste management, environmental monitoring and customer care. The data was analyzed through frequency distribution statistically by using (SPSS) version 18.0. A non-significant difference was found in all parameters of lab design, personal, equipment and consumable, quality control measures adopted in lab, waste management, environmental monitoring and customer care with an average percentage of 46.6, 57.77, 52.7, 55.5, 54.44, 48.88 and 60, respectively. A non-significant difference among all nine labs were found, with highest average compliance percentage of all parameters are lab 2 (78.13), Lab 3 (70.56), Lab 5 (57.51), Lab 6 (56.37), Lab 4 (55.02), Lab 9 (49.58), Lab 7 (47.76), Lab 1 (41.01) and Lab 8 (36.09). This study shows that in Lahore district veterinary diagnostic labs are not giving proper attention to quality of their system and there is no significant difference between setups of private and public sector laboratories. These results show that most of parameters are between 50 and 80 percent, which needs some work and improvement as per WHO criteria.

Keywords : veterinary lab, quality management system, accreditation, regulatory body, disease identification

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