

## Strategic Planning to Establish Quality System in Medical Laboratory

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### Abstract

**Background and Objective:** Every organization requires ongoing evaluation of existing conditions. The purpose of this study is to assess and analyze the standards and criteria that each Laboratory system is required to observe and upgrade them, to determine the gap between the ideal and the current status and finally to present the strategy and executive plan in order to achieve the desirable status.

**Material and Methods:** This study was performed in a medical diagnostic laboratory in Gorgan by using the quality system checklist related to medical diagnostic laboratories, which was revised in 2009. Internal evaluation matrix (Internal Factor Evaluation) was used to examine the main factors in the context of establishing a quality management system in a clinical laboratory. After examining the factors, determining the laboratory status, recording the results of monitoring (in terms of strengths and weaknesses) and determining the gap between existing and desirable status, we provided the appropriate and effective solutions in line with defined standard.

**Results:** of 164 items that should have been done in the first assessment, 111 (67.7%) items are in performed group and 53 (32.3%) are not in. After compiling and running a plan, 147 (89.6%) are performed, 15 (9.2%) needed to be modified and 2 (1.2%) still not performed. It is evident that a significant difference ( $p < 0.05$ ) and a tangible improvement in current problems are seen after establishing the quality system in the laboratory. The lab equipment, lab space and facilities, pre-examination process, testing process and post-examination process are considered. Regarding the health and safety in the laboratory, lab equipment, lab space and facilities, pre-examination process, testing process and post-examination process, no significant difference is observed between before and after the implementation of the program.

**Conclusion:** after establishing the quality system in laboratory, a significant difference and tangible improvement in the current problems are observed. It is implied the importance of pre-planned responses to problems and the performance of strategic planning.

**Keywords:** Strategic Planning, Medical Diagnostic Laboratory, Quality Control