Summary of Quality Control (QC) Program #### 1.--- ### Key Points - The QC program emphasizes systematic monitoring, documentation, and corrective actions to ensure reliable laboratory results and improve overall quality in patient care.Responsibilities - Department Heads and Supervisors must select survey materials and ensure timely testing and result submission.Purpose - The QC program aims to monitor the performance of analytical systems to ensure reliability in patient sample measurements, facilitating both short-term and long-term medical decisions.Procedures - **Acceptable Ranges**: At least 20 measurements over 2-4 weeks are needed to establish control ranges, which must be documented and approved.Corrective Actions - **Systematic Errors**: Involve maintenance, recalibration, and retraining.Definitions - **Quality Control Program**: A system developed to ensure products or services meet or exceed customer requirements.- **Frequency of Testing**: QC testing frequency is set to daily for stable analyzers and with each analytical batch if not run daily.Unacceptable results require documented corrective actions and a review of patient results to ensure validity.Policy - Each laboratory section will create a QC program with specific checklists and control ranges.Documentation of corrective actions is required, and QC records must be retained for a minimum of three years.QC Review Schedule - **Daily**: QC results reviewed by technologists and section supervisors.- **Random Errors**: Typically resolved by re-running samples; if issues persist, further investigation is needed.Split-Sample Procedures - Used for external proficiency tests or when unavailable.- **Monthly**: Section Head and Quality Officer review all QC data collectively.Interpretation of Results - QC results should be plotted over time.Accept or reject results based on established criteria.Samples may be split for testing in other laboratories or re-run internally using different methods.They are also responsible for reviewing QC results before patient results are released.#### 2.#### 3.#### 4.#### 5.#### 6.#### 7.#### 8.#### 9.