6.17 Introduction of Improved Quality Assurance Practices in a Pulmonary Physiology Department

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Background: We investigated quality assurance within the department over a 6 month period (July-Dec 2023). A retrospective pulmonary function data analysis of 1798 adult patients between 18-95yr was captured using an excel spreadsheet. A new grading system was introduced for assessing repeatability of technically acceptable manoeuvres during testing. The parameters for grading were: Spirometry FEV1, FVC and DLCO. We assessed the percentage of Spirometry where the variability of measurements was less than 150ml and DLCO manoeuvres where within 10% for both trials. Agreed KPI of >90% for Spirometry and 85% for Diffusion Capacity. **Results**: Spirometry: 1798 adult patients had Spirometry testing completed with a 89% (A) quality mark. Over 6 months, on average 89% of measurements met the repeatability criteria of 150ml. The final 3 months at least 91% of measurements with a 83% (A) quality mark. Over 6 months, on average 83% of measurement met the criteria Vin/VC >85%. For the final 2 months 88% met the criteria. **Conclusion:** This quality assurance initiative demonstrates we are reaching our KPI targets. QA is a key component for Physiologists working in a Pulmonary Physiology Department. **Conflicts of interest:** The authors have no conflicts of interest