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EVALUATION REPORT: ASSESSING THE IMPACT OF ALINIQ INDEXOR ON NHS PRE-ANALYTICS

CONTEXT

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UK HEALTHCARE SITES EVALUATED INDEXOR SYSTEM*

3,7M

TOTAL PATIENT POPULATION SERVED

54K

TOTAL SAMPLES DAILY PROCESSED

* Royal Cornwall Hospitals NHS Trust (RCHT), Royal Wolverhampton Hospital (BCPS), NHS Grampian and Eastern Pathology Alliance (EPA) - Norfolk and Norwich University Hospitals NHS Foundation Trust (NNUH)

CHALLENGES

- **Manual and Time-Consuming Processes:** Sample booking is slow and requires extra staff, often extending into late hours due to delayed deliveries.

- **Lack of Traceability and Control:** No tracking of sample conditions (e.g. temperature, delays, damage), and no automated logging of collection data.

- **Sample Loss and Patient Impact:** Missing samples are common (1 in 1,400 tubes), causing delays, re-testing, and patient stress.

- **Environmental Burden:** Use of single-use plastic bags for sample transport increases waste and carbon footprint.

THE IMPACT

All sites interviewed highlighted the **efficiency savings** gained after the implementation of lndexor as one of its primary benefits.

500%

INCREASE
in samples processed per hour was reported in BCPS

65%

DECREASE
in processing time was observed in EPA

52%

REDUCTION
in missing samples was recorded in RCHT

2 hr

REDUCTION
in throughput time for majority of samples from booking to results were observed in BCPS

The implementation of Indexor also led to significant **workforce efficiencies**, reflected in measurable Full-Time Equivalent (FTE) savings across multiple sites and contributed to greater **environmental sustainability** in sample processing.

£121,680

SAVINGS
in staff costs per year

5 - 6.75

FTEs
saved per 10,000 samples were observed in the three sites

£1,984.63

SAVED
per 100,000 bags used

1.475 t

CO_2e
saved for every 100,000 bags avoided

KEY BENEFITS

AlinIQ Indexor is designed to address these challenges and has proven to be a transformative tool in sample management across pathology networks. Its key benefits include:

- **Operational efficiency:** Indexor enables automatic check-in of up to 60 samples simultaneously, significantly reducing processing time and manual workload.

- **Reduction of human error:** By eliminating manual tasks such as labeling and documentation, Indexor minimizes pre-analytical errors, which account for up to 75% of lab mistakes.

- **Time and cost savings:** Sites have reported annual savings of up to £121,680 in staff costs, thanks to optimized resource allocation and reduced need for FTEs.

- **Enhanced traceability and safety:** RFID technology ensures a complete audit trail from sample collection to analysis, with alerts for temperature deviations, impact damage, or missing tubes.

- **Environmental impact:** By replacing single-use plastic bags with reusable racks, Indexor helps reduce carbon emissions and plastic waste, saving up to £1,984.63 per 100,000 bags avoided.

LAB LEADERS HIGHLIGHT INDEXOR'S IMPACT ON EFFICIENCY AND TIME SAVINGS

"It definitely saves time because before, you had to write on the bottle itself, which is not always possible. You had to write the patient's name, date of birth, and sometimes the NHS number or another identifier. But now you can just stick the label on and scan it. You don't need to write any of that information because you just zap it."

— **Jane Meachem,** Practice Manager, Newquay Health Centre

CONCLUSION

- **AlinIQ Indexor ensures secure and efficient transport of blood samples** from hospitals and primary care facilities, **enabling faster and more reliable diagnostics** across pathology networks.

- **By replacing single-use plastic bags with reusable racks, Indexor contributes to lower CO_2 emissions and plastic waste,** supporting NHS sustainability goals while also reducing procurement and disposal costs.

- **Beyond current applications, Indexor shows promise for broader integration**, including hospital units and innovative transport solutions like Unmanned Aerial Vehicles in remote regions where poor infrastructure and weather disruptions cause up to 90 days of transport delays annually—highlighting its adaptability and long-term value.

We are ready to help. Please provide your details if you want to be contacted by your Digital Health Solutions representative:
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Read full report here: https://healthinnovationeast.co.uk/wp-content/uploads/2024/09/Indexor-System_Evaluation-Report-Final_Health-Innovation-East.pdf

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