Infection Prevention and Control 2020

Working closely with GPT Consult LLP, Invigilatis has delivered a radical new way to provide real-time assurance about the safe-performance and compliance of critical ventilation systems, for Infection Control Officers, Clinicians and Estates Managers: immediate access to performance information confirming whether, or not, Critical Ventilation Systems for the Trust's Operating Theatres and Isolation Rooms deliver the expected safe working environment needed to ensure patient and staff safety.

This innovative data-driven solution recognizes the importance of Human Factors/Ergonomics (HFE), in accelerating essential Quality Improvements.

System Deliverables

- **Real time ventilation system assurance.**
- Theatre and critical system performance dashboards, ranking their operational performance.
- Theatre Performance Certificates.
- Verification dashboards for Estates which rank air handling unit and system condition.
- Holistic planning capability for inspection and maintenance regimes.
- System Inventories and Logs as required by the latest version of HTM-03.
- Web-based solution available anywhere 24/7.

What will be improved

Reporting flows and Operational transparency: as soon as a Verification Engineer completes their last measurement of a system's annual inspection, the system dashboards will update immediately. (N.B. Currently days, if not weeks and possibly even months, elapse between the verification, reporting and system evaluation by the Authorising Engineer and before Infection Control are notified about the inspection.)

Assurance: annual certificates, dated when authorised by key parties, will assure Clinicians and their teams each theatre suite's performance is compliant and the verification has been completed by suitably qualified engineers in accordance with the latest statutory Guidance.

Communication: Infection Control, Authorising Engineer, Authorised Person, - i.e. all concerned can view the same information, even though they may be in separate locations, and they can determine how best to proceed if a critical system needs to be taken out of use.

Accuracy: performance data is calculated using the BI functionality within the system – i.e. the inspection data is loaded directly into the system and there is no rekeying of information.

Costs: Trusts will see an immediate reduction in costs. Overall Inspection times will be much shorter because the automated systems saves having to produce detailed reports manually. There will also be medium and longer-term cost reductions as maintenance will be better planned and system availability improved.

Sustainability: use of ink and paper will be reduced. There will be no formal reports from Verification Engineers because their inspection data will be logged directly into the system which automatically computes the performance figures for immediate display via web-based dashboards.

Invigilatis – usability and smarts

Invigilatis has created a growing portfolio of innovative tools to assess risks, deliver real-time performance information and achieve Quality Improvements where Human Factors are critical to the successful delivery of reliable and effective processes.

Well-designed interfaces (both web and apps) for mobile device facilitate data gathering: data quality is improved and overall quality improvement efforts are enhanced.

Working with GPT Consult LLP, Invigilatis' latest Ventilation Compliance solution (see over) analyses verification data immediately to deliver critical information simultaneously to both Infection Control and Estates. By improving the timeliness of these data flows and expediting decision making, patient safety risks are reduced significantly.

<u>Other Case studies</u>

Infection Control Audits - QITS

Originally based on the ICNA checklists, Invigilatis' solution was updated to Infection Prevention Society's set of Quality Improvement Tools. These audits were implemented easily at sites such as Kings College London and at Kettering General Hospital, where the monthly data collected from thousands of audits is available immediately for inclusion in the Trust's dashboards for its senior managers.

Clinical Risk Assessment

Invigilatis provided Medical Protection Society with a suite of risk assessment tools to support their GP members with Safety Culture, Infection Control, and Repeat Prescribing. Those tools provide a wealth of dashboarded information which enables speedy and effective remediation of risks. Lambeth Clinical Commission Group achieved over 90% reduction in Repeat Prescribing Risks within a matter of just weeks - *see "Repeat prescribing of medications: A system-centred risk management model for primary care organisations". Journal of Evaluation in Clinical Practice - Professor Paul Bowie of NHS Education for Scotland*

CQCassist

Working with Richard Banyard (formerly CEO of an NHS Primary Care Group, Invigilatis created this tool for GP Practices to evaluate over 200 pages of guidance and determine whether they were compliant with CQC's regulations quickly and easily. Subsequently, updated to reflect CQC's process change to use Key Lines of Enquiry, it is still the simplest way to determine CQC compliance.

Estates Compliance and Risk Management

Invigilatis also provides tools for its NHS clients to gather data and dashboard it to show if inspections have been completed on time and remedial actions completed, so ensuring vital healthcare assets are compliant with regulations and guidance.

Most recently Invigilatis' team have been engaged on a project to provide an effective App to facilitate data gathering on incidents in one of the UK's most hazardous industries – Forestry – and so ultimately establish its safety triangle. This will ensure underlying Human Factors are better understood and managed.

Have you a data process you wish to improve?

<u>For further information contact</u>

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