



Synopsis

Part of VitalHub

Transforming Perioperative Care

IN HOSPITAL | AT HOME

The complete digital perioperative platform, supporting hospitals to pre-screen and pre-assess patients for surgery, reducing cancellation rates and increasing theatre utilisation.

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An Introduction to Synopsis

The award-winning digital pre-operative assessment platform. Reducing surgery cancellation rates and risk. Increasing patient throughput and theatre utilisation.



SAVE TIME

Streamline the pathway to theatre, improve operational efficiency and reduce administrative burden with PAS / EPR integration



SAVE MONEY

Identify fit-for-surgery patients and intervene with high-risk patients earlier to maximise theatre utilisation



SAVE LIVES

Flag issues immediately with published clinical risk scores including ASA, p-POSSUM and STOP-BANG among others

Maximise Theatre Utilisation

Surgery and anaesthesia are the hospital's engine room, where many costs are focused and where most revenue is generated (typically 70%).

The pre-operative process is the fuel for that engine. Synopsis ensures this process is efficient, supporting hospitals to increase patient throughput and theatre utilisation whilst reducing cancellation rates and risk.

Fast-track Low-risk Patients

Synopsis has replaced the time-intensive, paper-based pre-operative assessment process with a digital solution that is easy and convenient for patients to use, whilst saving time for hospital staff and reducing operation cancellation rates. Synopsis streamlines processes and supports hospitals to reduce risk, with over 250 clinically validated algorithms within the Synopsis Engine.

This engine processes vast amounts of data instantly to produce published risk levels, including: ASA; Aspiration Risk; POSPOM and P-POSSUM, with calculated cardiac and lung risk levels; and a mortality score. These risk scores provide a summarised view of the data, helping to identify low-risk patients who can be fast-tracked into light-touch care pathways, and higher-risk patients requiring intervention.

Reduce Cancellation Rates

The Synopsis Platform enables hospitals to manage the entire pre-operative assessment digitally, delivering significant operational efficiencies to increase patient throughput to surgery.

Synopsis is used within the NHS to complete over 110,000 assessments annually, contributing to an average saving of £1.4m per Trust, per annum. Savings are generated from the reduction of last-minute cancellations of surgery by an average of 20%.

Increase Pre-operative Capacity

Synopsis iQ receives multiple data inputs from patients, clinicians and even lab data from other systems, and processes all that data using over 250 tailored algorithms to generate clear outcomes, supporting the decision-making process with a full risk assessment.

Synopsis provides a collection of published clinical scores, including ASA, STOP-BANG and P-POSSUM, with calculated cardiac and lung risk levels, and a mortality score. These risk scores help to provide a standardised, summarised view of the assessment data, which is visible and accessible to all relevant staff across the hospital.

Outcomes

A selection of some of the results achieved by hospitals using Synopsis.



Zero cancellations of on-the-day surgery (due to pre-assessment in the initial 4 months)



Increase in pre-op capacity (7000 additional pre-op assessments each year)



Total in-year saving of £2.7m (anticipated £4m saving when Synopsis Home deployed)

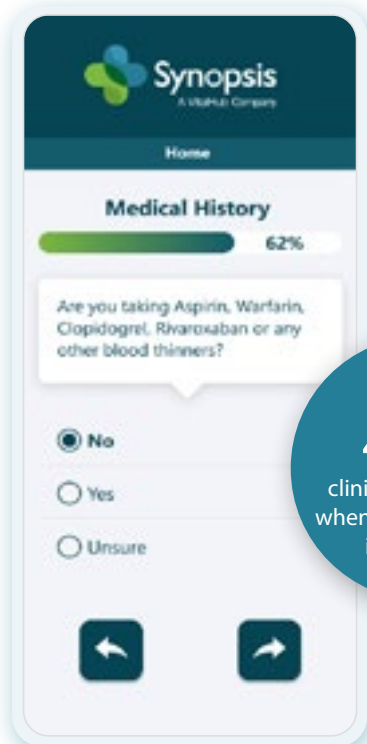


Reduction in paper and printing (reducing carbon footprint by 17.4 tonnes)



Reduction in hospital appointments (when patients use Synopsis Home)

The Solutions



Average
40%
clinical time saving
when Synopsis Home
is deployed

Synopsis Home

Enable patients to complete their pre-op health questionnaire at home

Synopsis Home enables hospital patients to complete their pre-operative health questionnaire on their phone, a tablet or a computer, from the comfort of their home.

Once the questionnaire is completed, it is then shared directly to the hospital's system, allowing the care team to triage their patients more efficiently than ever before.

Synopsis Home is cloud based and all data is owned by the patient. Patient information can only be viewed by the hospital's triage team in Synopsis iQ, once permission is granted by the patient. The patient will also be notified when their data has been accessed.

Synopsis Home supports a reduction in face-to-face hospital appointments, reduces the paper trail within the pre-operative assessment pathway, and provides patients with greater convenience and choice over their care pathway.

Synopsis iQ

The complete digital pre-operative assessment solution

Synopsis iQ is the complete digital pre-operative assessment solution, including clinical decision support, helping to increase the throughput of fit-for-surgery patients to theatre and maximise theatre utilisation.

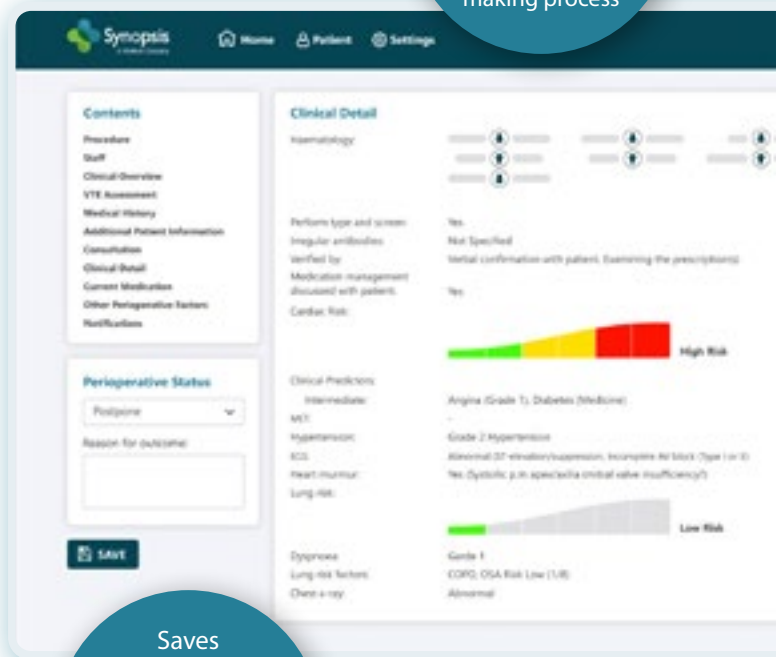
Synopsis iQ receives data inputs from patients (completing their pre-operative assessment questionnaire at the hospital or from home via Synopsis Home), clinicians and even lab data from other systems.

Synopsis harnesses the power of data using over 250 tailored algorithms to generate clear outcomes during a full risk assessment to produce a collection of published clinical scores, including ASA, STOP-BANG and P-POSSUM among others. Synopsis iQ also generates a calculated cardiac risk and lung risk levels, and a mortality score as part of the assessment process.

These risk scores provide a standardised, summarised view of the data, helping to identify low-risk patients who can be fast-tracked into light-touch care pathways.

Released clinical time can be channelled to higher-risk patients requiring in-person consultations and care intervention. A searchable database of fit-for-surgery patients also supports hospitals fill any last-minute available theatre slots.

Over
250
tailored algorithms
support the decision
making process



Saves
£1.4m
on average per
NHS Trust,
per annum

Service Definition

- Digital health screening questionnaire.
 - In accordance with NHS England requirements, Synopsis offers a digital health screening questionnaire service, ahead of a patient's pre-operative assessment, either before or whilst on a surgical waiting list. This service facilitates the digital capture of survey responses and questionnaire management for appropriate patient risk assessment.
- 250+ algorithms, producing various clinical risk levels.
 - There are hundreds of algorithms working in the database to assess how the patient, or clinical user, is answering the questions and Synopsis is making suggestions according to NICE guidelines as to what the next steps will be in order to give the best possible care. In other words, if the patient said they were diabetic within their questionnaire, the solution will automatically suggest that the patient's HbA1c be tested and, perhaps, their glucose level.
- ASA, STOP-BANG, P-POSSUM, SORT, Frailty, Cardiac, Lung Mental- Capacity Mortality+.
 - Synopsis has embedded numerous internationally recognised anaesthetic risk scores within the system to assess patients' suitability for surgery. These scores are user-defined, and can be turned on or off according to the health organisation's preferences. Additional scores can also be added to meet the need of the health organisation.
- Online patient specific questionnaire.
 - Synopsis Home is a patient specific questionnaire which can be accessed via a web link. It is designed to be easy for a patient to access. There is one question per page with a simple yes, no, or unsure answers. Where additional information is needed, the questions will expand to accept further answers.
- Clinical Triage tool to identify patient pathways.
 - When patient answers are downloaded from Synopsis Home into the management system, Synopsis iQ - our triage tool, will automatically calculate the patient's risk and categorise them against a particular ASA score, this with numerous other scores is used by the triage team to determine the pathway of the patient.
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- Full clinical specific pre-operative process/reporting management system.
 - Synopsis is not just a questionnaire it is a full management solution for the pre-operative pathway. It includes all assessments undertaken by the clinical team, i.e. physical, nursing, anaesthetist etc. All information inputted can easily be reported on to enable the health organisation to not only capture the information in each assessment, but to understand the outcomes and improve processes where necessary.
- Fully integrates with hospital PAS and EPR.
 - Synopsis fully integrates with hospital systems using FHIR/HL7 or any other method more suitable for the health organisation. The solution has the ability for bidirectional transaction at a data item level, as well as a document level.
- Hosted inside of the NHS HSCN firewall.
 - The Synopsis solution is hosted securely within an HSCN infrastructure, ensuring the highest security of patient's information.
- Regulatory compliance, DCB0129, MHRA(6625), ISO27001 and CE marked.
 - Synopsis is continually monitored to ensure that it is always up-to-date with all compliances ensuring safety and quality for patients and clinical users.

