Philips Azurion

Azurion data overview: St. Antonius Hospital Nieuwegein

First two-year study evaluating clinical image-guided workflow benefits of Philips’ image-guided therapy platform Azurion.

Involving: 775 patient procedures at St. Antonius Hospital Nieuwegein in the Netherlands, the first in a series of global hospital studies.

17% ↓ Reduction in procedure time
Average time of interventional procedures
- Clinicians enabled to move quickly and confidently through procedures with Azurion’s intuitive user interface
- Allowed more accurate scheduling of patients

25% ↓ Reduction in planned cases finishing after normal working hours
Resulting in higher employee satisfaction

12% ↓ Reduction of in-lab preparation time
Time period between a patient entering the lab and start of the procedure
Supported by ProcedureCards that reduced time and helped minimize preparation errors through pre-programmed settings, clinical protocols and checklists

29% ↓ Reduction in staff traffic between exam and control room
TSM Pro and FlexVision Pro provides clinicians with instant access to patient data, resulting in less walking between exam and control room.
Less walking can reduce the need for sterility breaks and lower infection risk.1,2

28% ↓ Reduction in post-procedure lab time
Time between when a procedure finishes and when the patient leaves the exam room
Instant Parallel Working allows staff to work independently and together so tasks can be completed simultaneously, leading to faster exam turnover

Extra patient per day
Time saved from using Azurion gave St. Antonius the ability to treat one extra person per day - on an average of 6 to 8 patients per day

Key findings

What is Azurion?
Launched in 2017, Azurion is Philips’ next-generation image-guided therapy platform that allows physicians to provide superior care for patients, easily and confidently perform procedures, while optimizing lab productivity.

What does it do?
Developed in close collaboration with clinicians, a range of procedures can be performed via the platform from PCI (percutaneous coronary intervention) procedures to complex vascular perfusion exams.

Who is it for?
Azurion can be used to diagnose and treat patients in hospitals or specialist clinics, providing image guidance in diagnostic, interventional and minimally invasive surgery across vascular, non-vascular, cardiovascular and neuro procedures.
Since its global introduction, 20,000 patients have been treated in 24 countries across the world.

Findings are significant because as demand increases for image guided therapy and more complex procedures, there is a need for:

- Hospitals and clinics to have more efficient models of care
- Standardized, easy-to-use settings and dose management
- Procedures to take less time so more patients can be diagnosed and treated

Image-guided therapies, also known as minimally invasive therapies or interventions, are usually performed by delivering a local treatment via catheters (thin, tube-shaped instruments), navigated through a small opening in the blood vessels, or needles through the skin. Medical imaging technologies involving X-rays, ultrasound, CT and MRI are used to enable and guide these procedures. The images produced provide the visual maps that allow the clinician to guide these instruments through the body to perform the therapy.

Results verified by NAMSA, independent third-party expert on study design and analytics.

Results are specific to the institution where they were obtained and may not reflect the results achievable at other institutions.

1 In a simulation study with over 60 users globally, results obtained during user tests performed in the period of November 2015-February 2016. The tests were designed and supervised by Use-Lab GmbH, an independent and objective usability testing engineering consultancy and user interface design company. The tests involved 31 US-based clinicians (16 physicians and 15 technicians) and 30 European-based clinicians (15 physicians and 15 technologists), who performed procedures using Azurion in a simulated interventional lab environment.


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