SYNAPSE-NX: complete documentation and imaging for endoscopy

SYNAPSE-NX at a glance

Order
- Receive generated order list from Hospital Information System via HL7. User- or computer-specific list views with filter/sort functionality. Configurable list columns. Progress indicator for each order.

Scheduling
- Automatically receive schedule data from Hospital Information System, manual change or creation of appointments, room-/bed-specific.

Patient admission
- Recording of patient arrival, printing of receipt.

Examination
- Send work list to DICOM-capable video sources with automatic recording of instrument/source. For non-DICOM devices, recording of instrument by barcode or on screen. Recording of examination staff and examination information (premedication, medication, indication, …).

Image/Video
- HD and SD recording of image and video, simultaneously. Up to two video sources are supported in an examination. Digital (DICOM) and analogue (SVHS, composite, SDI, DVI) transmission. Image/video triggering via endoscope button, foot pedal or on screen, manufacturer-independent. Live display on full screen. Images internally stored in DICOM format (also for analogue images).

Offline mode
- Network-independent capturing of images/videos for mobile units with automatic server synchronisation.

Image/Video review
- Access to all previous examinations. Manual/automatic access to X-ray PACS-images. Multiple image layouts, image compare mode, direct image print/export. Tagging and annotating of images. Pictograms with markers to denote position of images.

Reporting
- Access to all previous reports. Multiple configurable report templates. Predefined and pre-filled reports. Double signature of reports with follow-up reports. Structured reporting databases for endoscopy and ultrasound, customisable. Mandatory “must” reporting terms are definable. Add images and pictograms to report. Transmit report as PDF or ASCII to Hospital Information System. Storage of additional external documents with scan service.

Disinfection documentation

Patient care
- Dedicated MDD-approved nursing tablet for full digital recording of patient care documentation.

Vital signs
- Automatic retrieval of vitals data (blood pressure, O₂ saturation, pulse) and creation of diagram for inclusion in nursing documentation. Configurable documentation database. Creation of printable nursing report.

Web access
- Web-based access to all reports, images and videos. Access to all previous examinations of the selected patient.

Statistics
- Patient/examination data and reporting data are available as statistics. Multiple statistics templates can be defined. History view shows all audit runs. Export of audits to Excel. Access to reports and images.

Program integration
- Shortcuts for starting of external programs.

Synapse PACS
- Synapse PACS viewer (patient master jacket) directly embedded. Drag and drop access to the full PACS archive.
Organise your endoscopy workflow efficiently

SYNAPSE-NX is a system for increasing the efficiency of the endoscopy workflow and performing inspection duties safely and with certainty. This set-up is connected with systems such as HIS, medical monitors and scope reprocessing machines. Synapse facilitates smoothy inspection organisation and reduces the time and effort in your daily activities. Moreover, SYNAPSE-NX is independent from the manufacturer of an endoscope.

Superior operability for fast and easy usage

HIS-based order management
Order information acquired from the Hospital Information System is automatically entered, including anamnesis. Detailed planning can be done in the integrated planning module. Rooms and precise time slots can be allocated.

Workflow guidance
Keep control of your examinations with progress indicators. Quick Launch buttons easily guide you through the procedure.

Complete tracing of reprocessing

Automatic storage of reprocessing protocols
Automatically receive full protocols from a wide variety of different disinfection machines and link them to the patient. Keep control with the integrated disinfection management module – for complete traceability.

Full integration into the Synapse PACS system

Direct access to all images in Synapse
You are already using Synapse PACS? SYNAPSE-NX enables direct access to the full Synapse archive with its integrated Synapse Client program. Have the complete patient archive available in SYNAPSE-NX!

Offline image recording for mobile units

Recording without a network connection
You can even save images when there is no network connection available, for example with mobile units and data management.

Automatic synchronisation
As soon as you connect the computer back to the network, it automatically synchronises with the server.

Complete integration with DICOM, HL7

DICOM
Store and retrieve X-ray images from the hospital PACS. Send worklist to your DICOM-enabled video processor and retrieve DICOM images.

HL7
Complete communication with the Hospital Information System.

Proprietary interface
Connect to disinfection machines supporting the vendors proprietary protocol.
SYNAPSE-NX completely integrates into your endoscopy department and the hospital campus – independent of your machine manufacturer.

**Patient care documentation**

Connect to vitals monitors
Automatically store vital sign data, such as heart rate, blood pressure and O₂ saturation. Include ready-to-use diagrams in the nursing documentation.

Mobile nursing tablet
For full digital nursing documentation, use the SYNAPSE-NX nursing tablet. All relevant information is entered using a customisable touch-screen interface.

**Quality and speed with structured reporting**

Flexible and fast
Use the customisable structured reporting program to effectively create patient reports. Automatically generate diagnosis and procedure codes and transmit them together with the report to the Hospital Information System (HIS).

Maintain quality
The medical terminology database in combination with customisable mandatory reporting terms give you a department-wide quality standard.