*Endo*RAAD – Product Overview

Integrated Endoscopy Clinical Information System and EPR

EndoRAAD is a complete Clinical Information System for procedures involving Endoscopy and Ultrasound examinations e.g. Colonoscopy, Gastroscopy, ERCP, Bronchoscopy, EUS, Ultrasound, etc. It captures high quality single images or video sequences and allows these images to be incorporated, by the endoscopist, into a complete report on the patient's procedure. All reports and images are stored in a long-term archive so that the complete **Electronic Patient Record (EPR)** can be made available to authorised users anywhere in the Hospital.

The EndoRAAD system has a number of software modules:
EndoRAAD Reporting - PC based report creation, image capture, report amendments (see below).
EndoARCH – Web based long term archive of the complete EPR for Endoscopy procedures (see below).
EndoSCHEDULE – Web based Appointment & Resource Scheduling for Endoscopy (see separate overview).
EndoNURSE – Web based Nursing records for Endoscopy (see separate overview).
EndoDIVER – Web based information management system for all Endoscopy data (see separate overview).
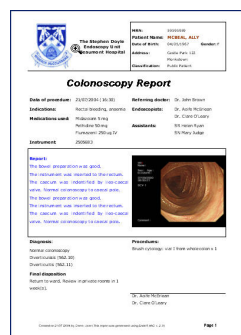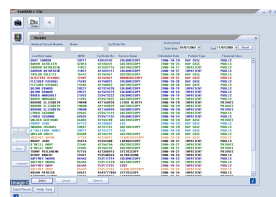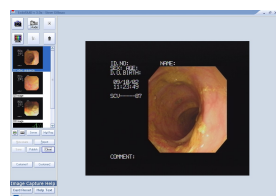
Features

EndoRAAD sits on a standard personal computer (MS Windows) in the procedure room using a special capture device for taking pictures and video segments from the procedure.

EndoRAAD covers the following functionality:

- The endoscopist selects the patient details from a worklist of scheduled procedures to avoid duplicate data entry. Worklists are automatically generated from **EndoSCHEDULE** or can be interfaced from the Hospitals' order entry or scheduling systems.
- Connection to the endoscopic camera is via a standard S-Video or High Definition (HD) cable that projects the video stream of the procedure in EndoRAAD.
- Endoscopists can capture single pictures (frame grabbing) and video sequences in 'real time' from the video stream of the procedure using the buttons on the endoscope.
- Images and video sequences can be reviewed immediately by the endoscopist and the required pictures selected for inclusion in the patient's report.
- The endoscopist has several facilities for generating the patients report for "any" procedure:
  - Report 'Wizard' allows the report to be generated from clinically structured procedure forms e.g. Colonoscopy, Gastroscopy, Sigmoidoscopy, ERCP, Bronchoscopy, EUS, Proctoscopy, Enteroscopy, Cystoscopy, EBUS, etc.
  - Use of a templates library which contain commonly used phrases, that can be included in the report. Templates can be defined/ updated by the clinical staff.
  - Standard text entry via the keyboard.
- An electronic signature is mandatory for the endoscopist to save and print the patient's report. Reports can be reviewed on screen and changed as required before signing.
- Completed procedures are stored on the local PC and are transferred automatically or individually to the **EndoARCH** server, for consolidation and long-term storage in the Electronic Patient Record. The server is located at a central location in the Hospital.
- The endoscopists may subsequently amend or enhance the report (e.g. Histology Results, adjust Management Plan, etc.) from the comfort of their own office.
- Examination details and images can be burnt to a DVD or saved to local or USB drive within the Hospitals security policies.
- EndoRAAD utilizes a standard SQL database for efficient storage and retrieval.
- The powerful **EndoDIVER** provides data for reports, statistics, 'ad hoc' analysis, clinical audit and research purposes. Access to every collected data field is available.
- Images are stored as high-quality JPG (pictures) and DIVX (videos) files.
- The system is highly flexible and can be easily customised by the users themselves.

EndoRAAD is a product of CompuGroup Medical and Manitex