

## → Clinical Benefits

- Physicians save time by having one point of access to patient records, which provides a procedural history with search capabilities by data fields.
- Increase accuracy of data collection with Esh-IGT proactive automated business rules
- Reduce clinical/medical error with automated alerts i.e.: allergies, previous adverse reaction to sedation or anesthesia
- Increase time allocated directly to patient care
- Increase time allocated to supplementary activities
- Improve communication within the patient's care circle by using system wide electronic notes
- Ensure patient is adequately sedated by providing sedation dosage history
- Improve patient's privacy by using electronic signature to lock data
- Reduce time to generate procedural documentation
- Reduce patient follow-up time by using PDA at bedside and immediately link new data to Esh-IGT
- Improve productivity for each modality/department with Esh-IGT tailored functionality
- Increase clinical efficiency by identifying patients by ICD-9 codes and compare it against clinical data
- Increase the clinical service level by applying the Mortality and Morbidity recommendations

## → Research Benefits

- Extract data for publication and research in minutes
- Create online teaching files from existing patients' case procedure
- Produce 3D graphs and reports online from clinical data
- Store images from PACS and digital cameras for rounds and teaching files
- Provide physicians with a user-friendly tool to extract data from the system
- Retain the query parameter for repeat data extraction over extended periods of time
- Flag specific cases and case of the week from existing patients' case procedure
- Generate online display case for rounds by several selection criteria
- Export research data to Excel

## → Operational Benefits: Budget

- Reduce inventory supply cost by 20%
- Eliminate expired inventory lots by advanced alerts on expiration dates
- Automatically measure and report waiting list performance and past due exams
- Actual to budget real time tracking
- Optimize inventory ordering
- Eliminate shortages of high value materials
- Improve resource forecast and planning to 85% accuracy level
- Automatically measure and report all performance indicators for actual, budget and forecast
- Strict control inventory cost by procedure
- Quick start-up and training within one week
- Alert on any price increase of supplies
- Increase patient throughput by room per day
- Increase room utilization to 85% accuracy level

## → Operational Benefits: Quality

- Full inventory lot tracking & automatic recall by patient and procedure date
- Electronic tracking and reporting of M&M incidents, recommendations and implementation
- Improve scheduling to 85% accuracy
- Strictly control inventory required and utilized by procedure
- Fully paperless system
- Automatic alerts on patients' conditions such as allergies, prophylactic, notes, screening details and implants
- Improve resource forecasting and planning to 85% accuracy
- Proactive notification of patients on pre-exam requirements
- Automatic alerts on MRI safety procedures for patients who had procedures done outside the MRI department

## → Operational Benefits: Time

- Record patient procedure data in 7 minutes
- Reduce patient follow-up time by 30% a day
- Automatically build teaching files from case procedures
- Extract data for research and publications in minutes
- Easy interface with hospital systems
- Export data to Excel
- Use barcode to reduce inventory-processing time
- Reduce billing processing time by assigning codes automatically to each patient's procedure
- Reduce MRI patient waiting time to days
- Decrease room set-up time by optimizing scheduling based on anesthesia type and required coil