

# MD analyze

Delivering Value From Clinical Data



“MD Analyze delivers value from clinical data. By aggregation of existing data and codification using our patented code structure, MD Analyze provides evidence for improved financial, safety and clinical outcomes.”

## Delivering Value from clinical data

Surgeons and other specialists are facing an enormous challenge: to find the most effective method for managing complex clinical data that is collected and stored in many different systems and where the majority of detailed clinical content is still input as free text!

These EMR or clinical systems may be suitable for managing individual patients for day-to-day clinical administration, but they cannot be used to analyze clinical factors for population analysis.

Clinicians need access to codified clinical data that can be aggregated to analyze trends in patient outcomes and identify improvements to treatment options.

MD Analyze has been developed to support the trend to manage healthcare by evidence and quality measures. It is a world class clinical knowledge management system for improving patient safety and quality outcomes.

Originally developed by surgeons to assist in complex clinical training and research tasks, MD Analyze is now installed worldwide, delivering a wide range of benefits to healthcare providers, administrators, regulators, payers and most importantly to patients.

## Benefits to users

We can guarantee the benefits and the return on investment in MD Analyze, because of our experience with successful implementations in the USA, Canada, Australia UK, NZ and in Asia. We understand the two critical factors for the success of new clinical information systems:

- MD Analyze provides a return on investment for the time and effort required for accurate codification of clinical data.
- MD Analyze provides a real and immediate benefit for everyone in the healthcare system. For example Administrators get improved productivity and revenue; CIO's get reduced cost of ownership and support, and improved relationships with clinicians; and clinicians get access to aggregate patient data for knowledge management, peer review, quality and safety audits, and outcomes analysis for training and research.

MD Analyze users are committed to solutions that will raise the quality and efficiency of health care to unprecedented levels. It unlocks the value from

your clinical data to provide evidence for improved financial, safety and clinical outcomes. Benefits enjoyed by MD Analyze users include:

- Implementing specialty clinical registries to standardise multi-specialty or multi-site data collection
- Applying clinical guidelines for best practice decision making
- Capturing and benchmarking aggregate clinical outcome and complication statistics
- Comparing the total cost and patient outcomes for different treatment modalities
- Auditing surgeon/clinician performance across all specialties and procedures
- Testing the clinical and financial assumptions for new procedures and devices
- Providing objective evidence of best practice performance standards.

For more information or an online demonstration of MD Analyze please contact us at [www.mdanalyze.com](http://www.mdanalyze.com)

## Here's how it works!

MD Analyze applies a three stage process to delivering value from clinical data:

- First it links to all existing data sources using HL-7 or XML technology, to create a master patient record linking all available data in a medical record with separate clinical pathways for each diagnosis.
- Second it uses a patented coding system to isolate and codify the most valuable clinical information, usually from the free text fields in existing data.
- Finally the MD Analyze patented search and analysis engine is used to aggregate codified clinical data and present findings to provide evidence for improved financial, safety and clinical outcomes.

MD Analyze can be implemented in any healthcare system where the codification and analysis of clinical data can add value. It can be used in a hospital environment to provide a single system to improve clinical performance and knowledge management across multiple specialties of acute care or chronic disease. Or, it can be used to improve clinical performance and knowledge management within a single specialty area of surgery, acute care or chronic disease, to track performance across multiple teams and facilities.

It is an approach that enhances the value of data, allowing complex activities such as clinical audits to be undertaken quickly and accurately.

All existing patient databases can be supported and enhanced by converting the records into MD Analyze. This makes existing data more valuable as it becomes available to the MD analyze search and analysis engine. MD Analyze also allows clinicians to customize data collection for specialized activities for their most complex treatments or protocols.

We have also developed MD Analyze to international standards, ensuring it satisfies all existing safety and privacy requirements. MD Analyze also uses all international or national coding systems such as ICD, SNOMED and local HRG/DRG or billing codes.





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#### **Clinical Audits**

“Safety, Quality or Performance Audits can be customized and results presented in a few minutes”

The MD Analyze simplifies regional, hospital, or departmental audits making reporting responsibilities easy and efficient. Audits can be created for any combination of surgeons, facilities, and date ranges for clinical factors based on demographics, co-morbidities, diagnosis, treatment, complications or outcomes.

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#### **Specialty Registries**

“Case records are captured prospectively and recorded automatically”

MD Analyze has invented the technique for codifying the clinical concepts of surgery or chronic disease such that the same database can be used for every medical specialty and every patient journey. This provides the ability to develop specialty clinical registries for diagnosis, treatment or population based analysis.

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#### **Clinical Knowledge Management:**

“Data analysis takes just a few minutes instead of weeks”

Collecting clinical data is time consuming and expensive, so MD Analyze captures all existing clinical data and the MD Analyze patented search engine enables you to reuse and re-analyze your data for many different clinical tasks. New protocols and requirements can also be quickly added to existing data.

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#### **Safety and Quality Outcomes:**

“Quality reports can be produced quickly and handled confidentially”

MD Analyze is designed for collection and analysis all of safety and quality indicators. Patient complications and outcome results are generated and presented in an easy to analyze graphical format. Data can be manipulated as required and multimedia records retrieved for follow-up and review.

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#### **Customized Data Collection**

“Customized data can be collected for detailed analysis of complex sub-specialty or research interests”

MD Analyze allows data associated with specialist procedures or required for the completion of complex outcomes instruments to be collected and added to the case history. This “Custom Form” data is then a permanent part of the patients clinical record in MD Analyze, and can be retrieved by searching the database.

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#### **Multimedia**

“Media files are searchable for treatment events or specific groups of patients”

MD Analyze simplifies the management and storage of clinical photographs, videos and radiology images. Any media file formats supported by the hardware and operating system can be recorded in the database. This includes digital documents and voice transcripts.