



## Healthcare Data Integration (HDI)

An Opportunity to Enhance Patient Safety, Quality and Performance Outcomes through Improved Data Integrity

### Background

The Texas A&M Rural and Community Health Institute (RCHI) started assisting critical access, small and rural hospitals with the use of data for patient safety and quality improvement in 2004, through a grant funded by the Agency for healthcare Research and Quality (AHRQ). The grant was designed to implement advance information technology that allowed hospitals to analyze quality and safety and, financial and market performance using administrative data. With the end of the grant in 2007, RCHI continued to offer the same technology as a service and has recently expanded these services through a grant funded by the Texas Department of Rural Affairs.

### Our New Program: HDI - Healthcare Data Integration

Knowing that performance measurement initiatives are driving healthcare at all levels: operations, safety and quality, finances and market share, RCHI strives to find ways to help hospitals meet these needs/requirements.



As a result of increased data needs RCHI has expanded its data project and is now powered by QuadraMed, a company known for their services in healthcare information technology, data management, reporting and performance improvement. This new initiative is HDI.

HDI offers tools and technology to hospitals making it a “one-stop” shop for data submission to reporting agencies, benchmarking and performance measurement. It provides a physician credentialing profile that helps meet The Joint Commission (TJC) OPPE/FPPE requirements.

HDI provides outpatient data reporting to the Texas Health Care Information Council (THCIC) in addition to the inpatient data reporting and submission enhancement of core measures to the Centers for Medicare & Medicaid Services (CMS) and The Joint Commission (TJC).

**ALOS Benchmark Analysis**  
QUADRAMED SAMPLE MEDICAL CENTER  
DRG Score by Class Separating

PPS DRG	Total Days	Total Cases	ALOS	Std ALOS	ALOS Opportunity	Total Days Opportunity
755 - Normal newborn	3,372	1,388	2.4	2.6	-0.2	-279.8
775 - Vaginal delivery w/o compl	2,880	1,188	2.3	2.4	-0.1	-118.8
768 - Cesarean section w/o CCR	1,758	455	3.8	3.7	0.1	45.8
794 - Cesarean w other signifca	1,248	425	2.9	3.1	-0.2	-85.8
313 - Chest pain	557	413	1.8	2.0	-0.4	-185.2
470 - Major joint replacement o	1,421	402	3.5	3.9	-0.4	-160.8
392 - Esophagitis, gastroent & m	1,285	338	3.8	3.2	0.6	201.8
<b>Report Totals</b>	<b>12,433</b>	<b>4,831</b>	<b>2.7</b>	<b>2.6</b>	<b>-0.1</b>	<b>-483.1</b>

Sample Reporting  
JCAHO ID: 0000  
Report Date: 1/8/1900

**Acute Myocardial Infarction**

Aspirin at Arrival

Aspirin at Discharge

Beta Blocker at Arrival

Beta Blocker at Discharge

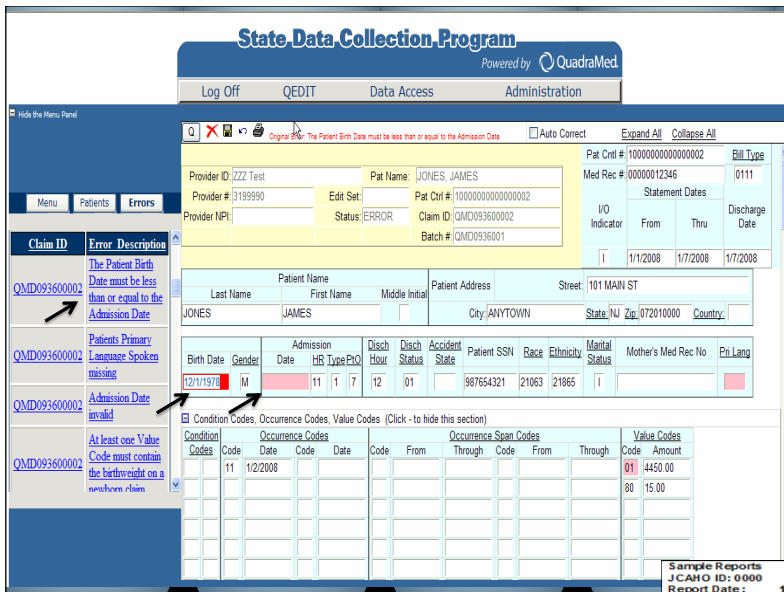
COPE: Core Measure Graph  
QuadraMed Proprietary Format

**HDI offers the following services:**

- Collection, error editing and warehousing of hospital inpatient and outpatient administrative data,
- Submission of hospital inpatient and outpatient data to the Texas Department of State Health Services — THCIC,
- Core Measures abstracting tool with identification of medical records requiring abstraction, specification updates, abstraction validation and reporting capabilities,
- Submission of core measures to the CMS and TJC,
- Integration of inpatient and outpatient administrative data, and abstracted data in a broader data repository.

**Web Based analytic tools provide:**

- Performance Measurement based on administrative data,
- Patient Quality and Safety indicators calculated from administrative data using AHRQ algorithms,
- Core Measure Quality Indicators integrated with administrative data,
- Physician and Patient drill down capability,
- Benchmarking at an individual, state and national level,
- Strategic planning and market analysis,
- Physician credentialing.



In addition.....

RCHI always works closely with hospitals providing:

- Assistance working with the hospital's billing vendor to obtain data,
- Assistance with data cleansing,
- Training and staff support,
- Support with using the tool and creating reports.

For more information contact:  
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Improve Performance through Measurement

