Key Technologies in Healthcare



Technology Association of Georgia February 7, 2006

Randy Spratt CIO, McKesson



McKesson Corporation

 Strong, stable company
 \$82+ billion in revenues, Fortune 15, S&P 500, Established 1833

Extensive resource base
 24,000+ employees solely dedicated to healthcare

Comprehensive array of solutions
 Significant value through a single relationship

Broadest customer base in healthcare
 Experienced partners in improving healthcare

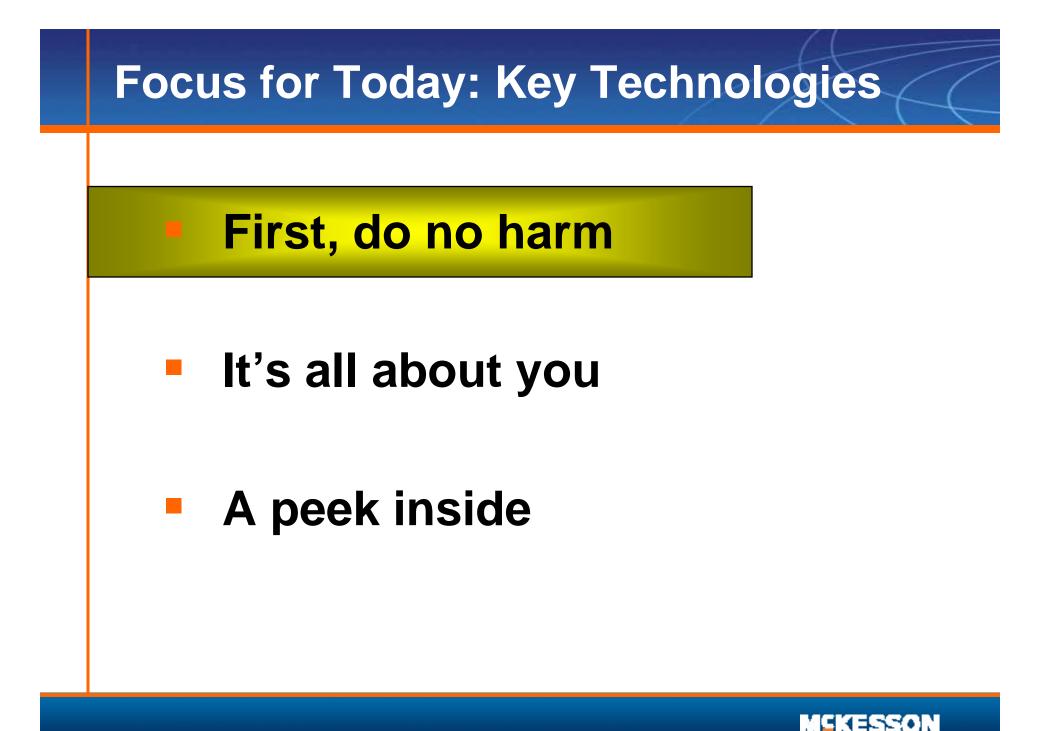




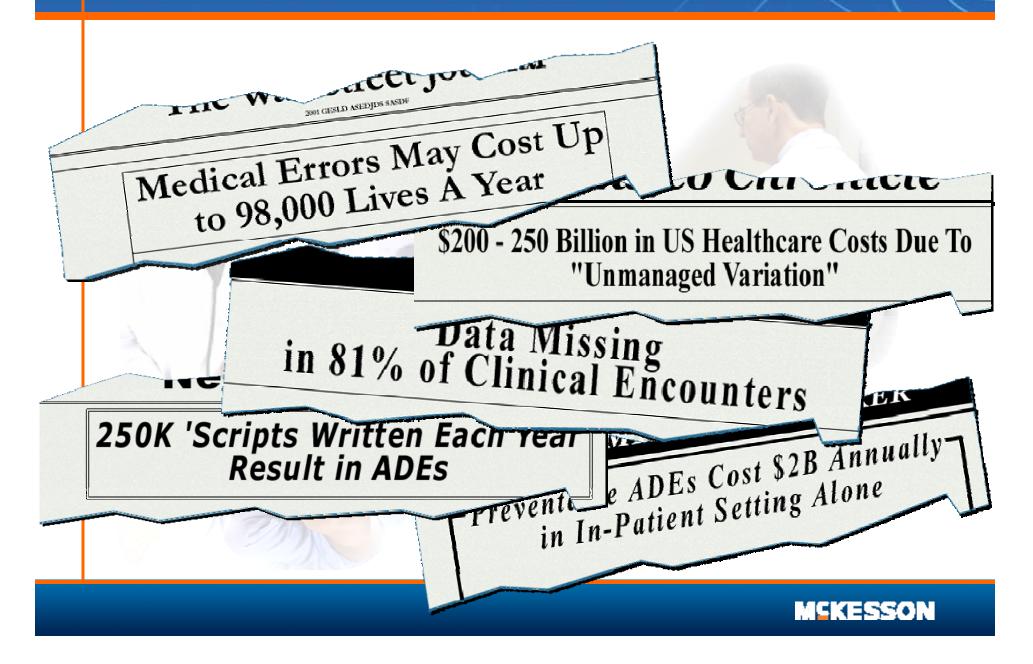




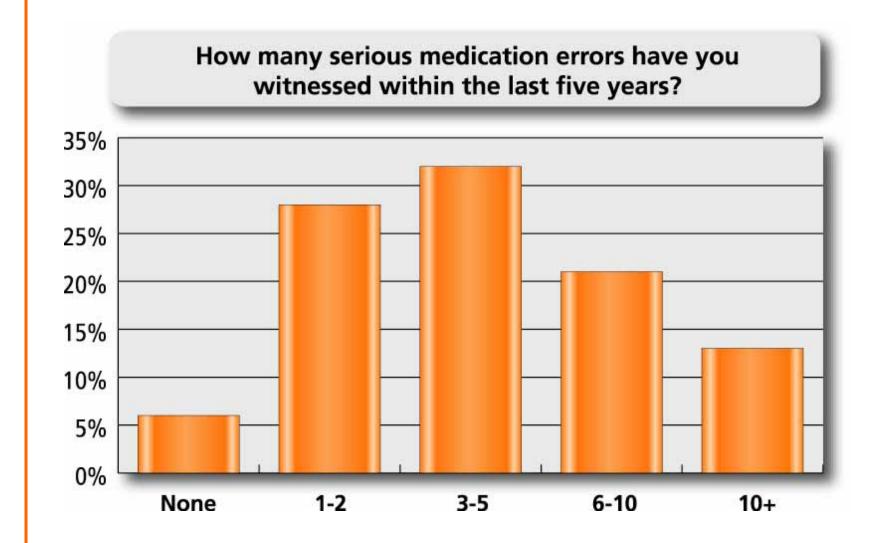




An Opportunity to Improve!



Medication safety is still a concern

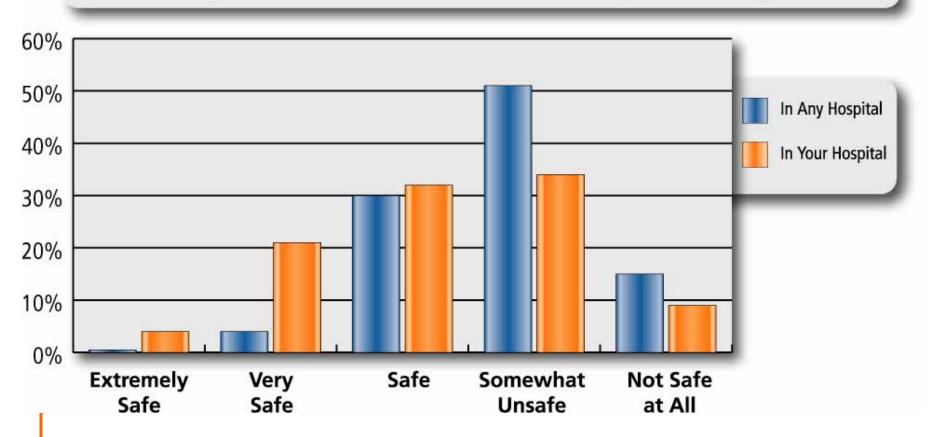


Harris Survey, 2005, 216 Nurses responding

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How safe would you feel as a patient?



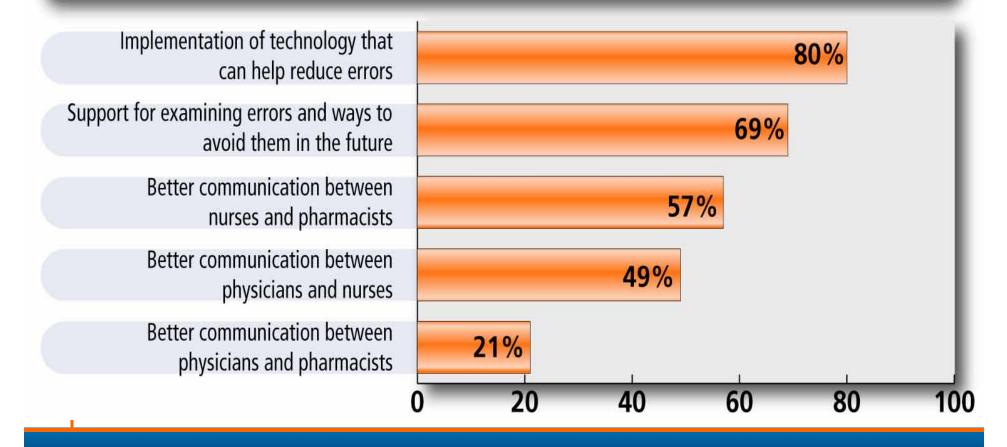


Harris Survey, 2005, 216 Nurses responding

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Technology key to improvement

If you feel medication safety is better in your hospital than five years ago, which of the following are reasons for this improvement?



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Harris Survey, 2005, 216 Nurses responding

Use of Technology by Frontline Nurses and Perceptions of Patient Safety Value



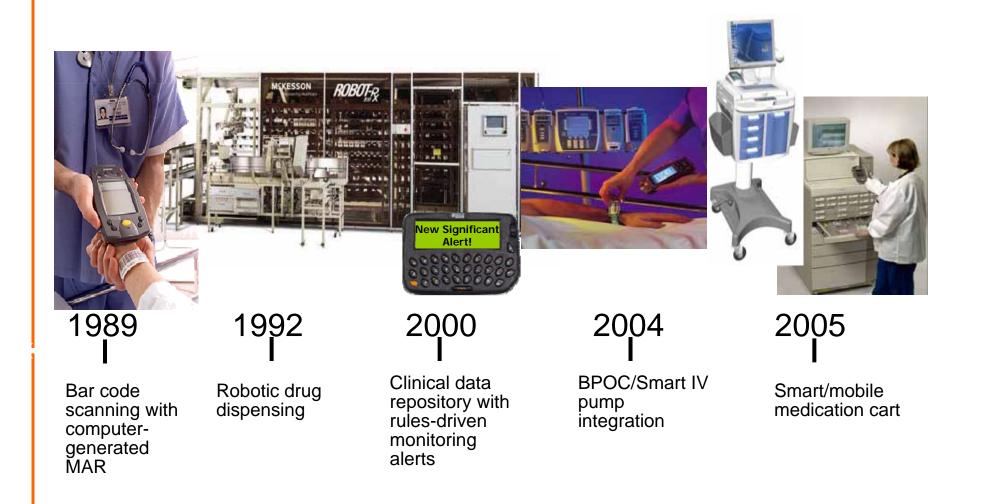
Technology	Percentage of respondents who said they have used the technology	Respondents' perception of technology value for improving patient safety (1=no impact on patient safety, 7=major impact on patient safety)	
Online documentation at the nursing station	43%	4.5	
Online documentation at the point of care	32%	5.1	
Bar-coded medication administration	23%	5.6	
Automated medication dispensing cabinets	70%	5.7	
Electronic reminders and alerts	22%	5.3	
Electronic "plan of care" tool	36%	4.0	SON

Conclusions

- While medication safety has improved, much progress remains
- Use of proven technology among frontline nurses still remarkably low
- Even nurses with little exposure to clinical systems recognize their value



Innovation Track Record





How simple is that?

Nine simple numbers kept her safe.

No one wants to be treated like a number. But sometimes numbers can make all the difference.

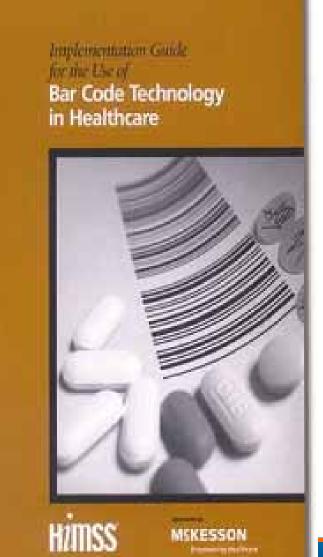
You see, when Marion Saunders was in the hospital, she wore a wrist ID bracelet that had nine numbers and a bar code on it. Every day, the nurse scanned the barcode label on Marion's medication and then the bar code on Marion's ID bracelet. A computer then made sure that the bar codes matched, which meant that Marion was getting the *right* amount of the *right* medication at the *right* time.

Thanks to the advanced technology we have in place at (*hospital name here*) to double check medication, we're preventing medication errors *before* they can happen. Bar-code checks and double checks are important ways we at (*hospital name here*) go the extra mile to keep patients like Marion safe every day.

At (hospital name here), safety counts.



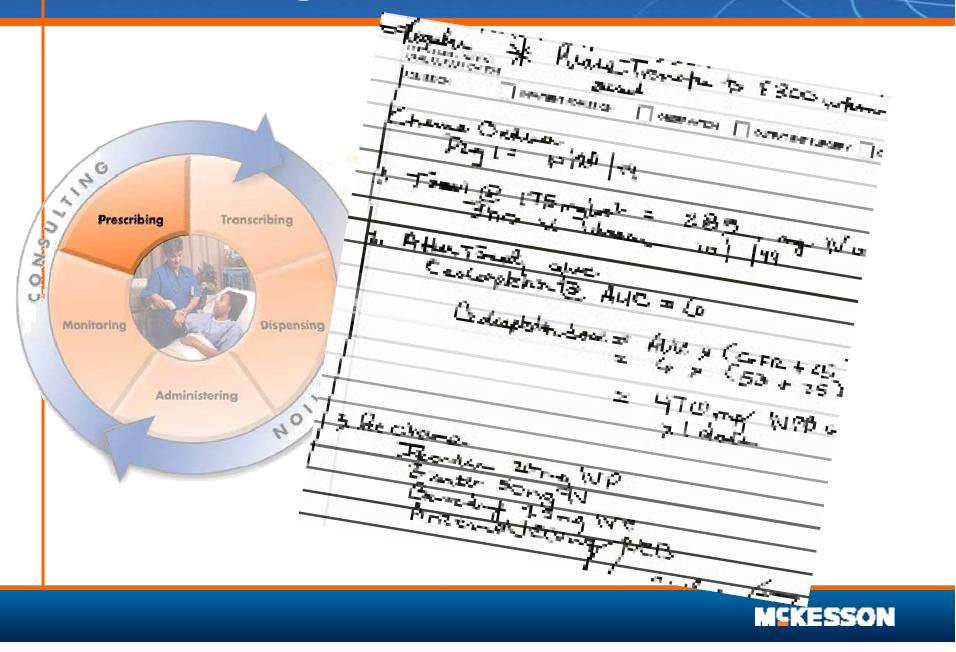
Industry and Regulatory Engagement



- FDA Bar Code Mandate
- HIMSS 2004 Leadership Survey
- Health Data Management
 2004 CIO Survey
- JCAHO National Patient Safety Goals



Prescribing



Dispensing Automation Solutions



Administration

- Single integrated wireless handheld device at the point of care
- Automates the documentation process and ensures **POSitive** patient / medication match







Presbyterian Hospital, Albuquerque: Patient Safety Investments

Robot in Pharmacy

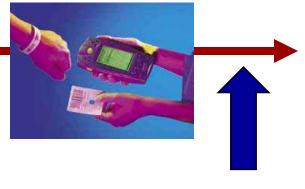


Pre-Redesign Study (March 2000)

Automated Cabinets on All Units



BPOC on Inpatient Units

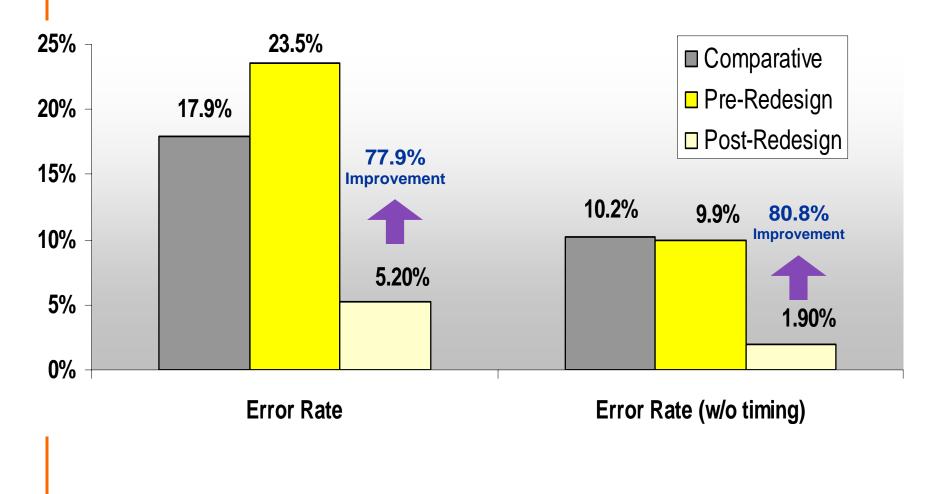


Post-Redesign Study (Nov. 2003)

- Bar-coded medications Transcription error cross-functional team (pharmacists, nurses, unit secretaries, physicians)
- Pharmacy staffing
- Pharmacists placed on critical units

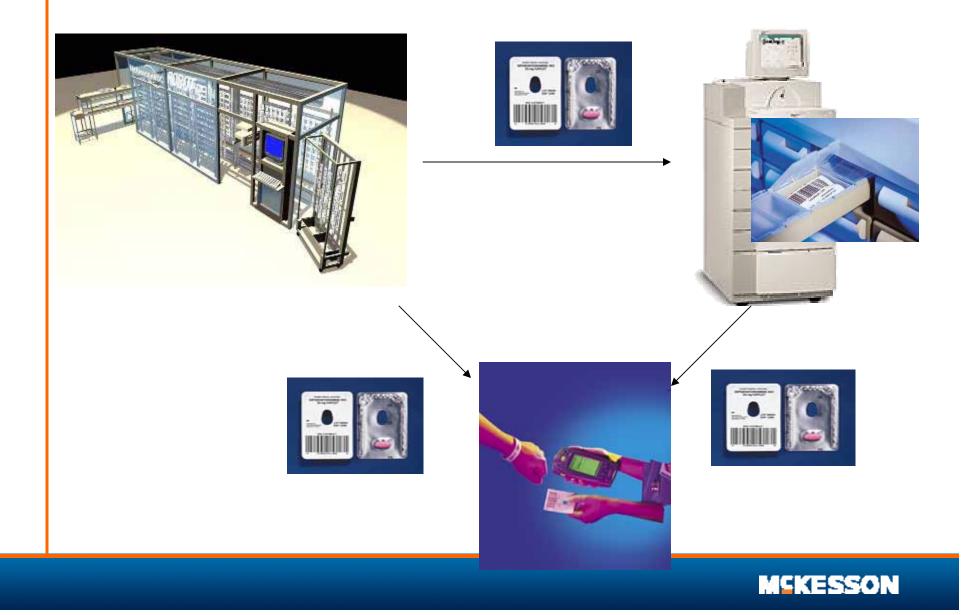




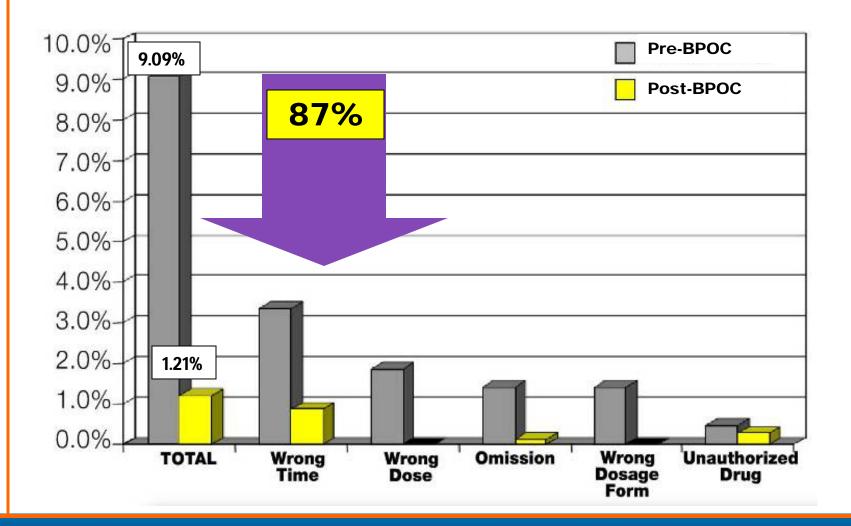




University of Wisconsin: Inpatient Automation



Pre- vs. Post-BPOC Error Rates



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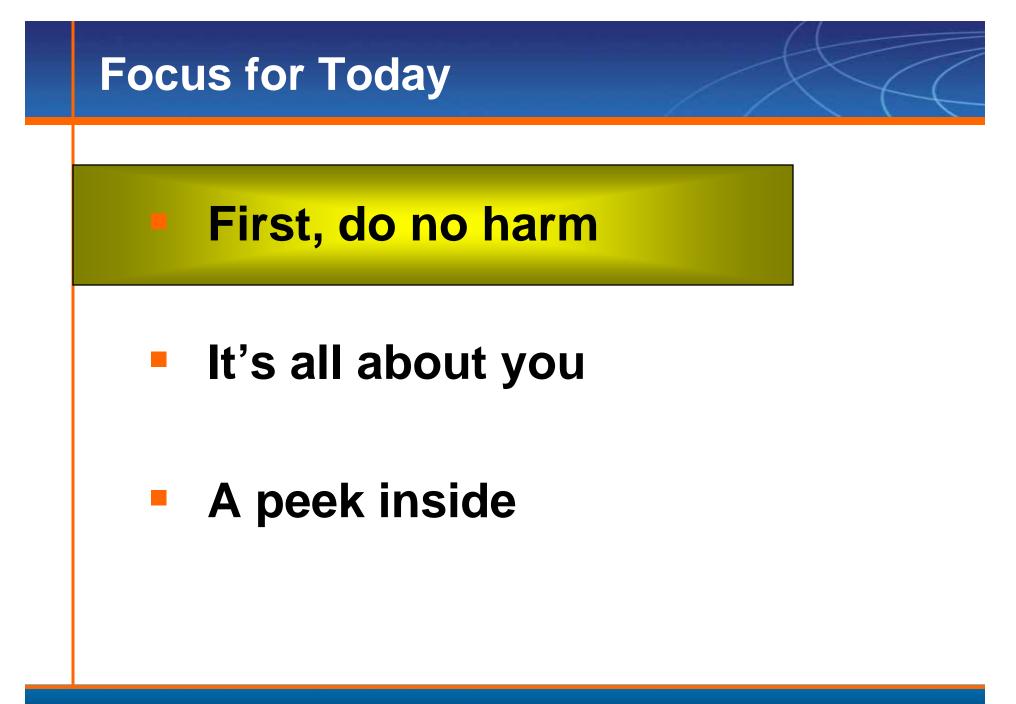


Each week, McKesson customers

Issue 403,995 warnings and Prevent 55,776 medication errors

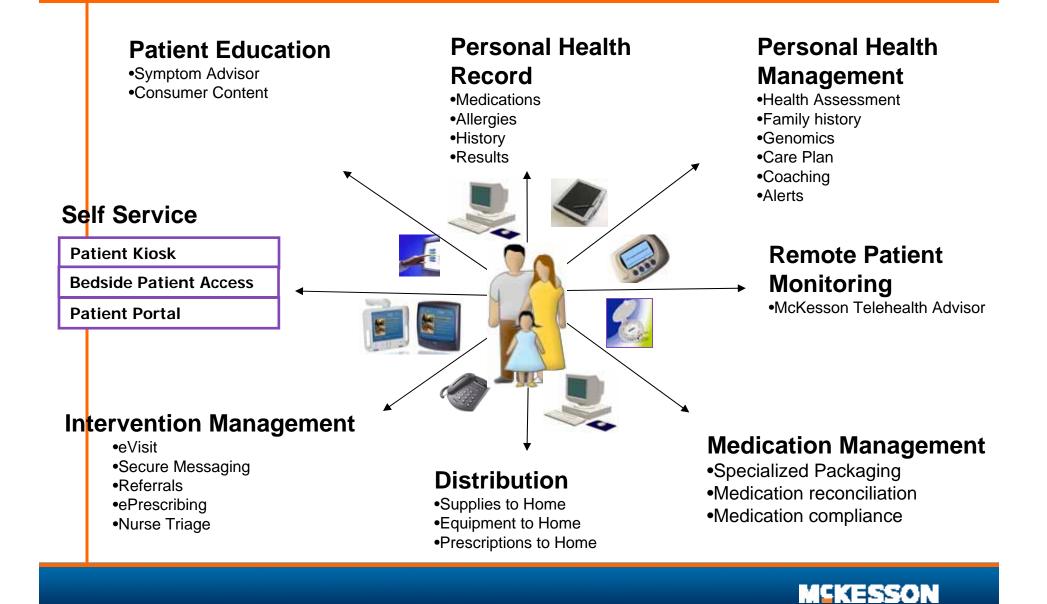
44 Million medications safely scanned at the bedside every year

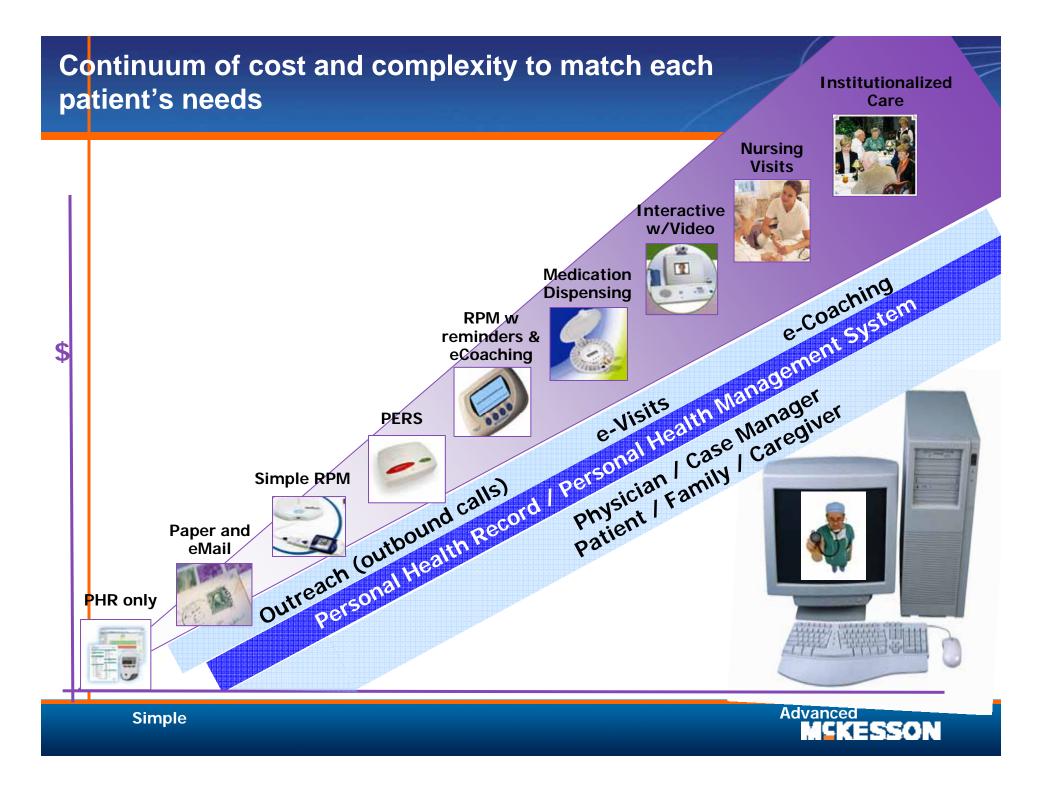




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Healthcare for the Patient



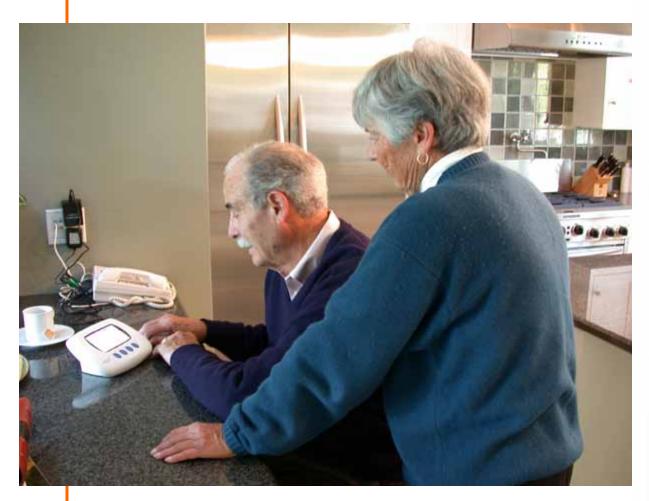


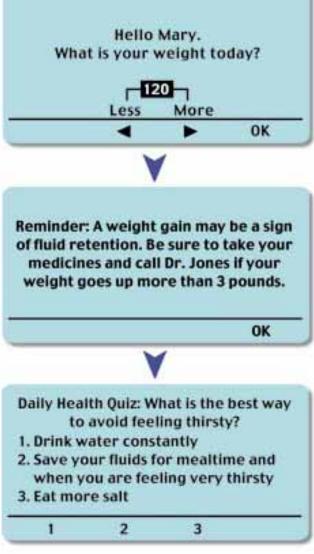
In-home health monitoring



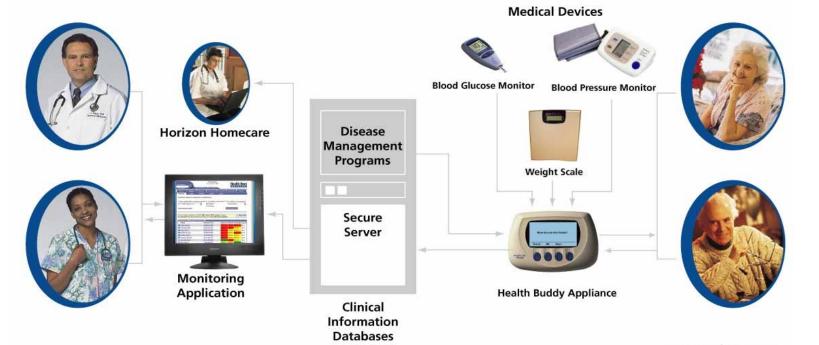


Monitoring Technologies





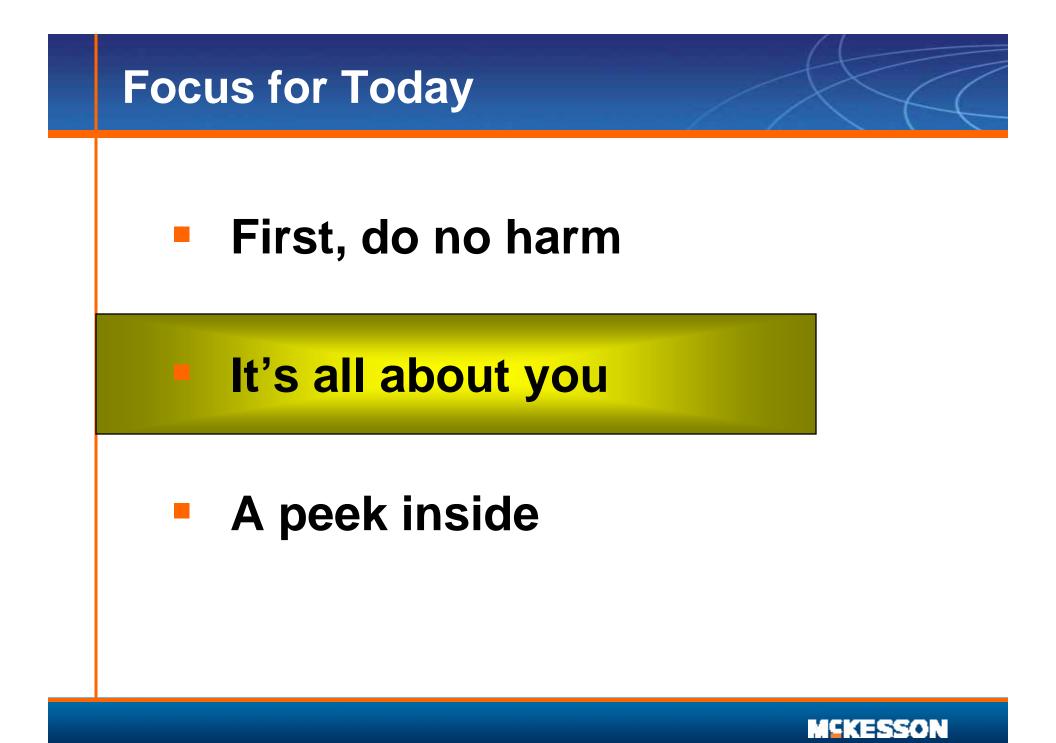
Telehealth Advisor



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- Remote Health Monitoring Technology
- Clinical Information Databases
- Internet-Enabled Decision Support Tools
- Disease Management Programs
- Integration to Homecare Agency

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Enterprise-wide image access – improving healthcare fundamentals

- The Importance of Imaging in Medicine is increasing
- Specialists require productivity tools to simplify their complex workflow
- Enterprise Imaging "paradigm shift"
- Tip of the "Imaging Iceberg"

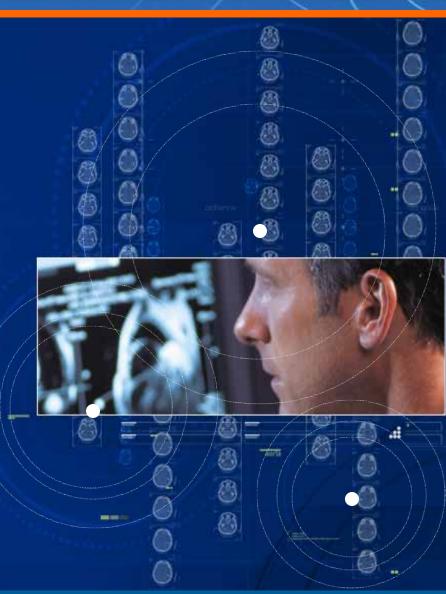
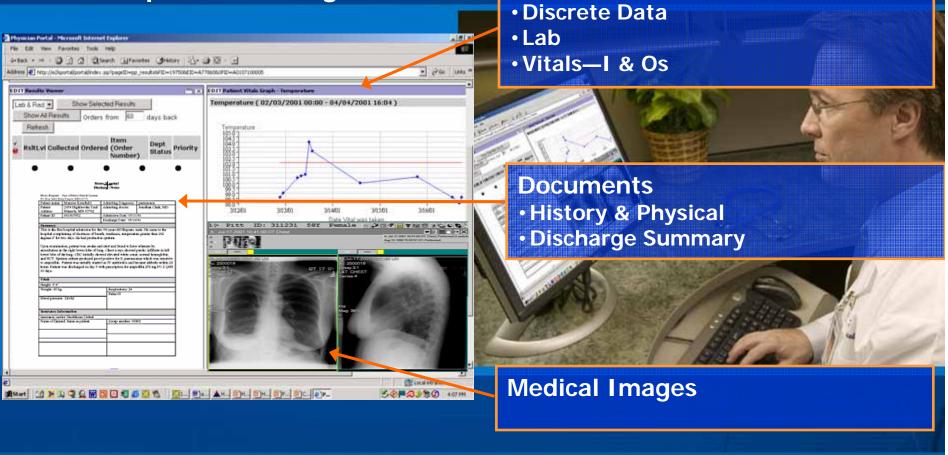


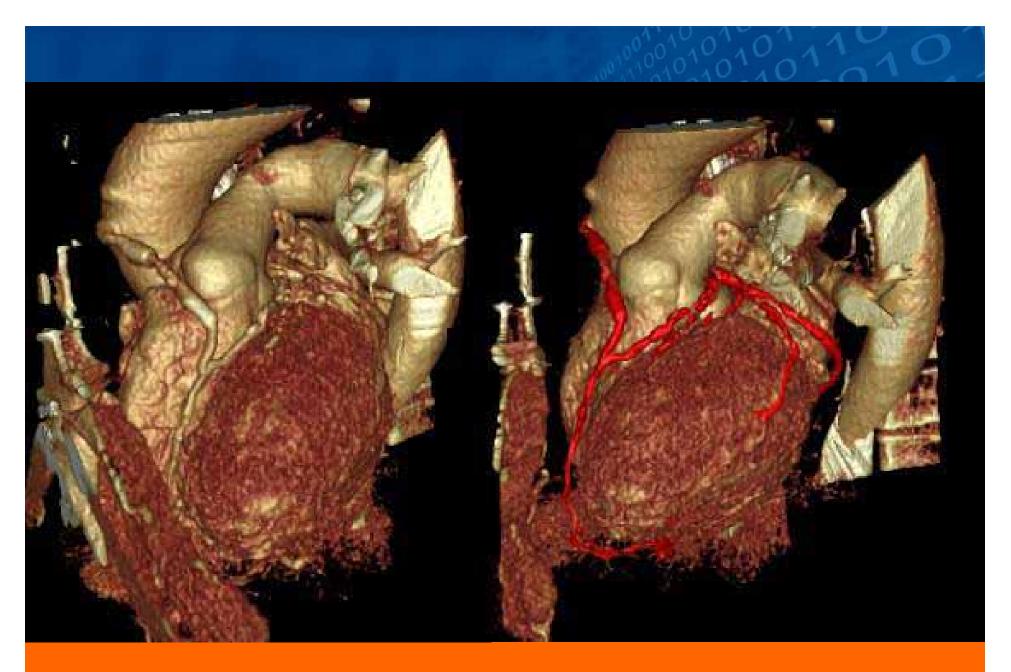


Image Enabled Care – throughout Healthcare

Primary Care Physician Portal - Complete with Images







Extraction of heart and vessels



Vessel extraction and Visualization



Heart Volume Rendering

Extraction

Interpreted

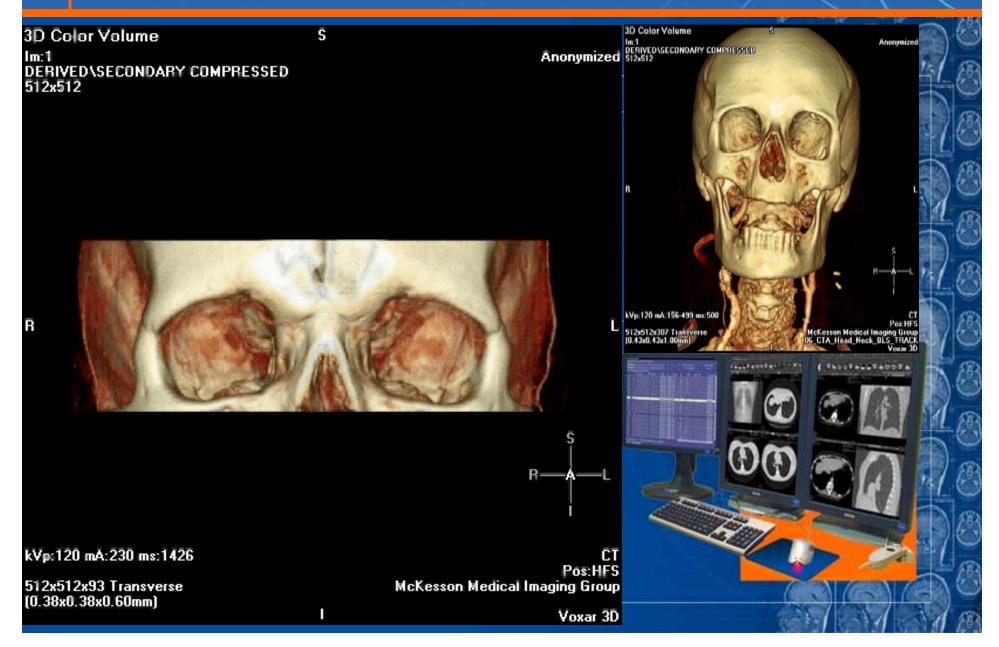
Calcium Cleansed



Image data volume increasing....



Large image-volumes require advanced image processing tools to interpret and create accurate diagnosis



Thank You!



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