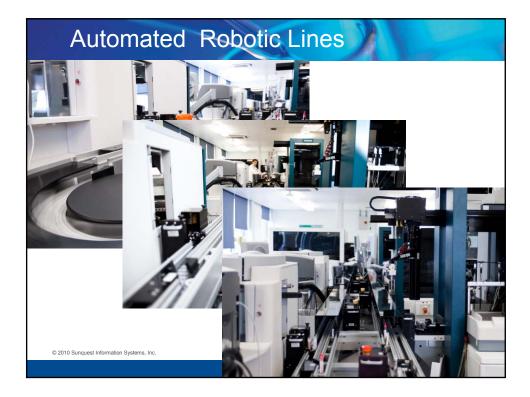
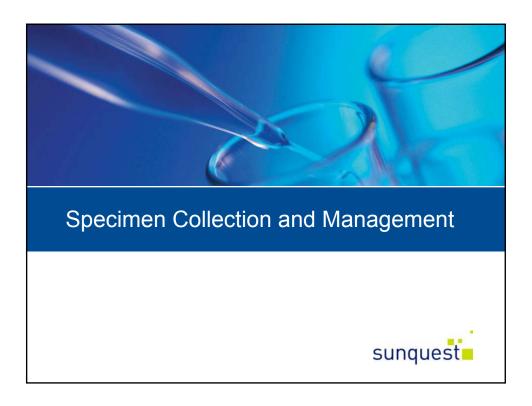
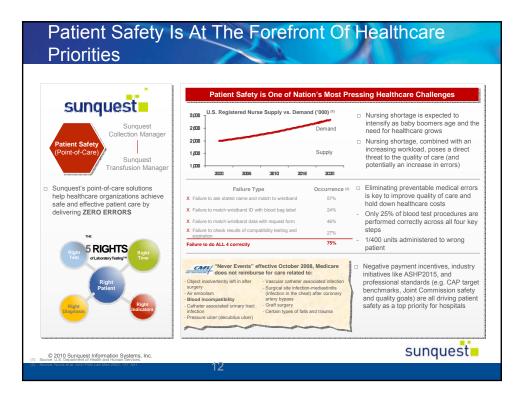


op	25 Highest-Volume Hospital Lab Faci	Facilities by Total Annual Test Volume				
	Facility Name	City	State	Test Volume		
1.	Cleveland Clinic	Cleveland	ОН	21,049,716		
2.	Baltimore Washington Medical Center	Glen Burnie	MD	16,834,084		
3.	Lourdes Hospital Inc.	Binghamton	NY	15,490,434		
4.	Johns Hopkins Medical Laboratories	Baltimore	MD	14,906,403		
5.	Memorial Hermann City Hospital	Houston	TX	14,731,100		
6.	Dynacare Northwest Inc. (Swedish Medical Center)	Seattle	WA	14,148,346		
7.	Clarian Arnett Health System Inc.	Lafayette	IN	13,223,788		
8.	A2CL-Wisconsin Central Laboratory (Aurora St. Luke's Hospital)	West Allis	WI	11,884,300		
9.	Henry Ford Hospital	Detroit	MI	11,725,356		
10.	New York Hospital	New York	NY	11,101,559		







Bedside Barcoding: Pharmacy 2015

Recommendations by ASHP encourage hospitals to build on the foundation of bar coded medications advocated by the FDA. The ASHP Health-System Pharmacy 2015 Initiative calls for 75 percent of hospitals to use machine-readable coding to verify medications before dispensing. The initiative also sets a goal that 75 percent of medications be automatically recorded prior to administration. The ASHP issued separate policy statements calling for all medications to be marked with machine-readable codes, and for pharmacists to take leadership in patient-safety efforts. A new JCAHO National Patient Safety Goal for 2006 requires labeling for all medications and medication containers. While JCAHO does not specifically require bar coding, the technology is an outstanding option because of the proven accuracy and safety benefits it provides.

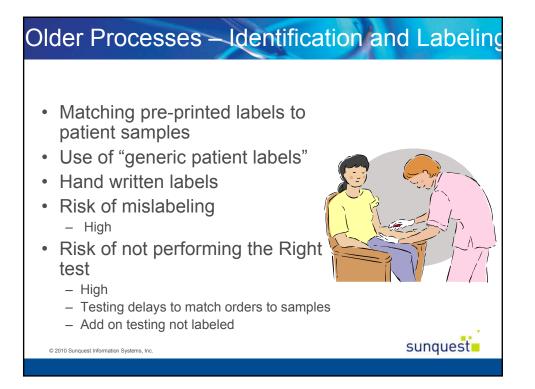
ASHP Policy Statement: Machine-Readable Coding and Related Technology (0308) Source: Council on Administrative Affairs To declare that the identity of all medications should be verifiable through machine-readable coding technology and to support the goal that all medications be electronically verified before they are administered to patients in health systems ... To strongly encourage health systems to adopt machine-readable coding and point-of-care technology to (1) improve the accuracy of medication administration and documentation, (2) improve efficiencies within the medication use process, and (3) improve patient safety; these systems should be planned, implemented, and managed with pharmacist involvement and should be in all areas of the health system where drugs are used.

This policy supersedes ASHP policy 0204.

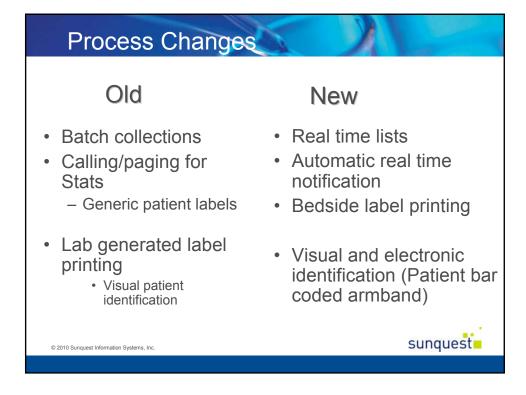


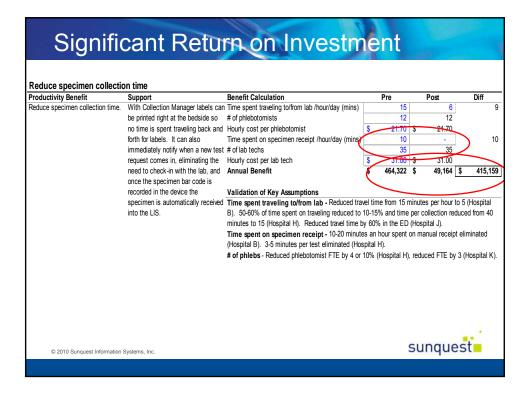
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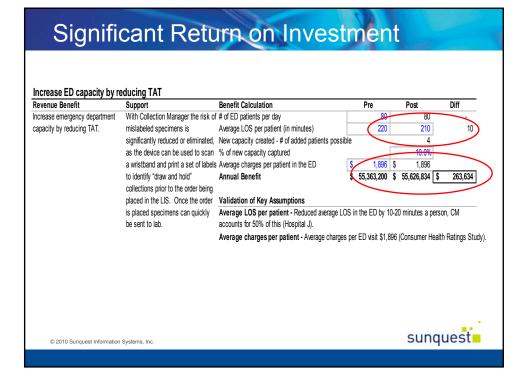
















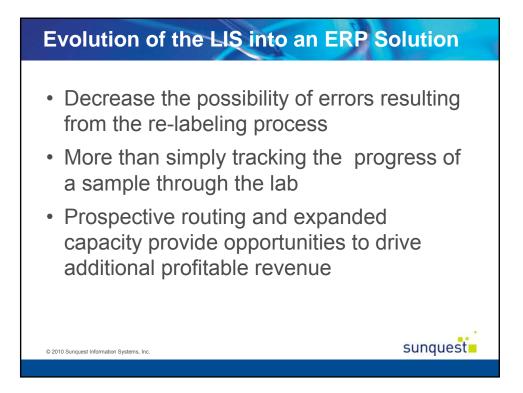
Workflow Automation Opportunities

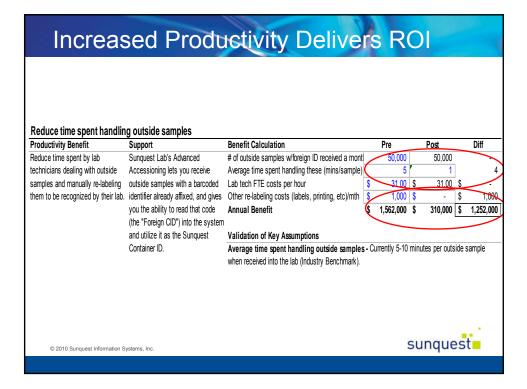
- Receipt of "Foreign Specimens" into the lab without the need to re-label
- Prospectively <u>plan and route</u> samples through the lab to optimize capacity and decrease turnaround time

Evolution of the LIS into an ERP Solution

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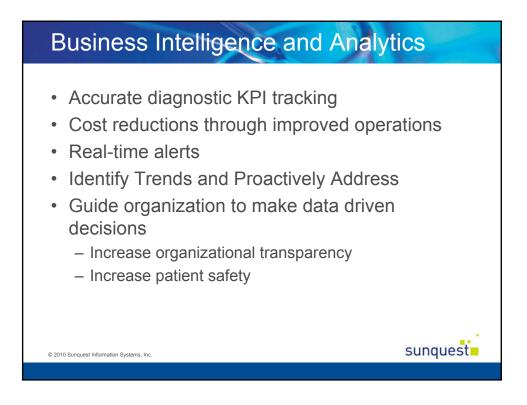


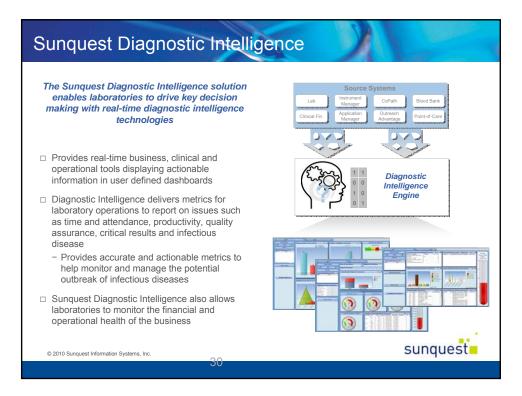
Productivity Benefit	Support	Benefit Calculation	Pre	Post	Diff
Reduce manual intervention required by techs to walk specimens from station to station.	With SMART, based on pre-defined criteria a specimen can be placed on the track, be received in the LIS, be pre-processed as needed, including complex aliquot instructions, and centrifuging, put on the instrument, processed and results acquired all without a tech looking at it.	Time spent manually handling specimens (mins)	no added FTE(Ho	spital B). Time spe	ent walking
		the system reduced from 5 minutes to 0 (Hospital		unques	

Capacity Enables Revenue Generation Increase lab capacity by reducing TAT Revenue Benefit Support **Benefit Calculation** Pre Post Diff Increase lab capacity by reducing Route optimization logic # of tests run per month 500,000 Current TAT (in minutes) TAT. determines each container's 45 32 14 optimal path through accessioning, New capacity created - # of new tests possible 214.286 processing, and testing % of new capacity captured workstations, getting it to the Average revenue per added test 40.00 \$ 40.00 workbenches more quickly where Annual Benefit \$240,000,000 \$ 241,028,571 \$ 1,028,571 staff can quickly locate containers, view instructions, conduct testing Validation of Key Assumptions and generate reports. Current TAT (in minutes) - TAT per specimen reduced from 30 minutes to 2 (Hospital B), TAT reduced by 30% and capacity increased by 40% (Hospital F). Average revenue per added test - Average revenue per test \$50 - \$80 (Hospital B), \$40 - \$80 (Hospital F), average hospital revenue per patient \$2,800 (RedOrbit News 2007). sunquest © 2010 Sunquest Information Systems, Inc.

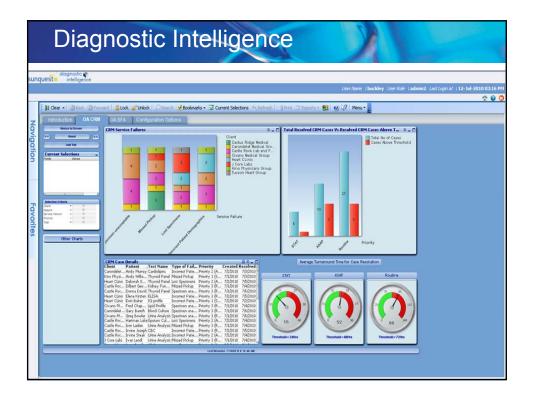














Concluding Thoughts

- · Lab workflow is unique within healthcare
 - Clinical product

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- Extremely high volumes delivered with high degree of accuracy
- Automation is key to efficiency
- LIS is evolving to begin to deliver ERP functionality
- ROI is measureable and repeatable and helps articulate the objective value
- Metrics...Business Intelligence...is key to effective data driven management

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