# NORTON HEALTHCARE

# **Our public quality report**

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## Acknowledgments

- Stephen A. Williams, President and CEO
- Robert A. Goodin, MD, Chairman and the Board of Trustees (especially Quality)
- Daniel W. Varga, MD, former CMO



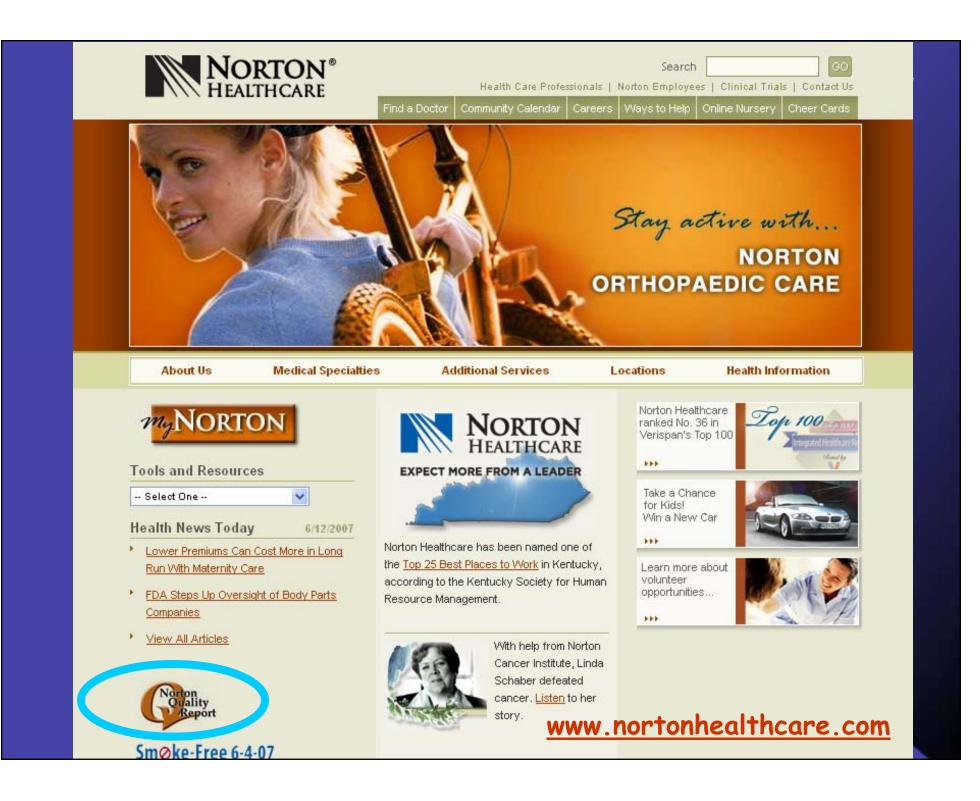
## **Norton Healthcare**

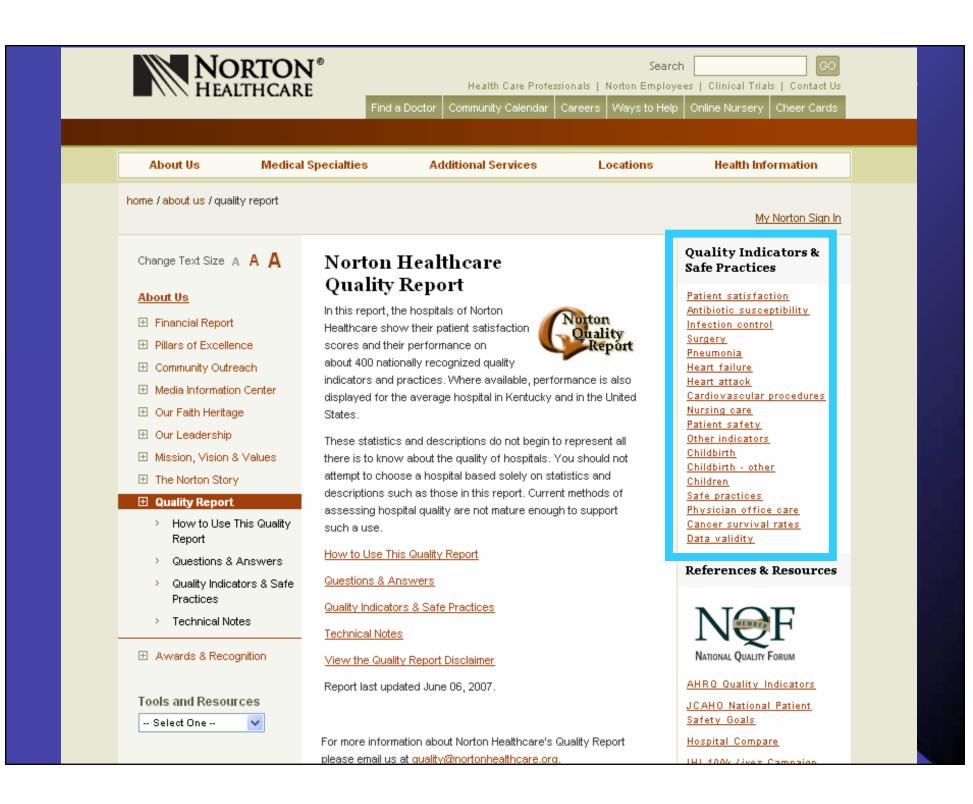
- Louisville, Kentucky
- 3 adult hospitals with a fourth under construction
- Kentucky's only children's hospital
- both owned physician practices and independent medical staff



## What we did

- Published an objective evaluation of our performance (launch: 3/31/2005)
- On more than 200 (now 400) nationally recognized indicators of hospital clinical quality
- Voluntarily





### Change Text Size A A A Cardio Cardiovasc

#### Quality Report

- How to Use This Quality Report
- 🗄 Questions & Answers

#### Quality Indicators & Safe Practices

- Patient satisfaction
- Antibiotic susceptibility
- Infection control
- Surgery
- Pneumonia
- Heart fa

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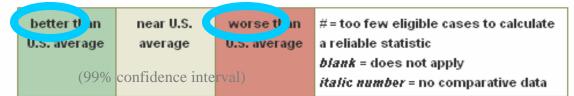
- Heart at Takes user 2 clicks from the
- Cardiove home page to get here.
- Physicia Mostly data not text.
- Nursing
- > Patient No self-promotion. No spin.
- Other indicators
- Childbirth
- Childbirth other
- Children
- > Safe practices
- > Cancer survival rates
- Data validity
- 🗄 Technical Notes

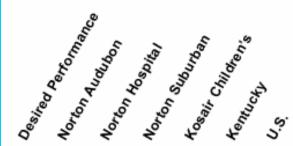
### Cardiovascular procedures

Cardiovascular procedures include heart and circulatory system procedures. Many indicators in the <u>surgery</u> and <u>infection control</u> sections also apply to cardiovascular procedures. These indicators include various complication rates and death rates, and summarize how well certain recommended approaches to these procedures are followed. At Norton Healthcare, only <u>Norton</u> <u>Audubon Hospital</u> and <u>Norton Hospital</u> (downtown) perform open heart and interventional cardiology procedures.

Click on the indicator description or on the results to obtain the full report.

Key





24.0

39.0

procedures that are bilateral	low	3.6	3.5	4.3	3.5	7.1
procedures showing insignificant heart disease	low	36.5	34.0	38.2		
patients with vascular complications	low	0.5	0.7	0.5		

PCIs (angioplasties) - percent of

heart attack / PCI patients treated high w/in 90 minutes

### Attp://www.nortonhealthcare.com - Norton Quality Indicato...

#### pdi09

Number of elective pediatric surgery patients per 100 with postoperative respiratory failure. Respiratory failure occurs when the body is unable to rid itself of carbon dioxide and cannot provide adequate oxygen to the body's cells.

#### Technical

🙆 Done

Includes inpatients with an admit type of elective, and discharged with a surgical DRG. Excludes patients with a principal diagnosis of acute respiratory failure, patients where tracheostomy is the only OR procedure, patients where a tracheostomy procedure occurs. before the first OR procedure, patients with respiratory or circulatory disease, neonates less than 500 grams, and OB patients.

(AHRQ PDI 9)

			1	Interne	et			;
ped. surgeries w/ postoperative respiratory failure	low				1.09	1.01	1.70	
ped. abdominal surgeries w/ postop wound dehiscence	low				0.16	0.08	0.08	
ped inpats with a blood transfusion reaction	low				0 🔗	0	0.0002	
	Q	Not Reform	Non Audubon	Not Hospital	Kos" Suburban	Ken Children	U.S.	

## "The public" is not the only audience for a public quality report.

#### Heart failure

Heart failure, sometimes called congestive heart failure, is a chronic (long-term) condition caused by the inability of the heart to pump as much blood as the body needs. Heart failure becomes more common with age and causes symptoms such as shortness of breath and a build-up of fluid in the feet and legs. Heart failure is one of the most common reasons for hospitalization. A healthy lifestyle and proper medications can reduce the effects of heart failure and the need for future hospitalization. These indicators examine how well we manage the care of patients hospitalized for heart failure.

Click on the indicator description or on the results to obtain the full report.

#### Key

better than near U.S. U.S. average average

who die of any cause w/in 30 days

 worse than
 # = too few eligible cases to calculate

 U.S. average
 a reliable statistic

 blank = does not apply
 italic number = no comparative data



83

81

60

82

4.3

11.1

3.2

10.8

Heart failure bundle and treatment - percent of heart failure patients meeting all 4 applicable indicators high 59 38 45 with LVF assessment 96 97 99 80 high 100 100 given smoking counseling 95 84 high 8 8 given complete discharge 57 36 26 57 high instructions prescribed ACEI/ARB at discharge 75 68 78 78 high

 Heart failure mortality - percent of heart failure patients

 who die (AHRQ risk-adjusted)
 low
 3.8
 3.4
 2.5

low

11.8

11.8

11.8



A trafficlighted page of multiple, indicators begins to address the problem of creating a quality index.



## **Our quality report principles**

- We do not decide what to make public based on how it makes us look.
- We give equal prominence to good and bad results.
- We do not choose which indicators to display. When we have a nationally endorsed list of indicators, we display every indicator on the list.

### • We are not the indicator owner.

We do not modify indicator definitions or inclusion/exclusion criteria in any way. We correct our internal data only for objective errors. We do not correct data submitted or billed externally unless we also resubmit or re-bill the data.

### • We display results even when we disagree with the indicator definition.

### • We believe unused data never become valid.

We recognize that we must display and make decisions based upon imperfect data, because until the data are used, no resources will be spent making the data valid.

### **Anything else is advertising – not transparency.**



Ours is probably still the largest hospital quality report in the country.

We did not decide to report all the indicators in order to have a *big* report.

We decided to report them all in order to have an *unbiased* report.

## **Routine internal detailed reports**



Routine Feedback Reports	P
Categories	
NHQR Categories for Routine Feedback Reports	
🗋 New Document   🗋 Upload Document   过 Up   🚞 New Folder   🔞 Filter   📓 Edit in Datasheet	
Type Name	Title Modified
ic01c_PICU Catheter-Associated UTIs_KCH_SPC	4/30/2007 3:35 PM
ic02c_PICU Central-Line-Associated BSIs_KCH_SPC	4/30/2007 3:35 PM
📆 ic02d_NICU Infants less than or equal to 1000 gms Central-Line-Associated BSIs_KCH_SPC	4/30/2007 3:35 PM
👮 ic02d_NICU Infants less than or equal to 1000 gms Central-Line-Associated BSIs_SUB_SPC	4/30/2007 3:35 PM
ic02e_NICU Infants 1001-1500 gms Central-Line-Associated BSIs_KCH_SPC	4/30/2007 3:35 PM
ic02e_NICU Infants 1001-1500 gms Central-Line-Associated BSIs_SUB_SPC	4/30/2007 3:35 PM
ic02f_NICU Infants 1501-2500 gms Central-Line-Associated BSIs_KCH_SPC	4/30/2007 3:35 PM
ic02f_NICU Infants 1501-2500 gms Central-Line-Associated BSIs_SUB_SPC	4/30/2007 3:35 PM
👮 ic02g_NICU Infants greater than 2500 gms Central-Line-Associated BSIs_KCH_SPC	4/30/2007 3:35 PM
党 ic02g_NICU Infants greater than 2500 gms Central-Line-Associated BSIs_SUB_SPC	4/30/2007 3:35 PM
🟂 ic03c_PICU Ventilator-Associated Pneumonia_KCH_SPC	4/30/2007 3:35 PM
👮 🛛 ic03d_NICU Infants less than or equal to 1000 gms Ventilator-Associated Pneumonia_KCH_SPC	4/30/2007 3:35 PM
党 ic03d_NICU Infants less than or equal to 1000 gms Ventilator-Associated Pneumonia_SUB_SPC	4/30/2007 3:35 PM
👮 ic03e_NICU Infants 1001-1500 gms Ventilator-Associated Pneumonia_KCH_SPC	4/30/2007 3:35 PM
👮 ic03e_NICU Infants 1001-1500 gms Ventilator-Associated Pneumonia_SUB_SPC	4/30/2007 3:35 PM
ic03f_NICU Infants 1501-2500 gms Ventilator-Associated Pneumonia_KCH_SPC	4/30/2007 3:35 PM
ic03f_NICU Infants 1501-2500 gms Ventilator-Associated Pneumonia_SUB_SPC	4/30/2007 3:35 PM
👮 ic03g_NICU Infants greater than 2500 gms Ventilator-Associated Pneumonia_KCH_SPC	4/30/2007 3:35 PM
👮 ic03g_NICU Infants greater than 2500 gms Ventilator-Associated Pneumonia_SUB_SPC	4/30/2007 3:35 PM
NICU SPCs KCH	12/20/2006 5:20 PM
ndi02_percent ped inpats developing in-hosp pressure ulcer (AHRQ), unadjusted_KCH_SPC	4/30/2007 8:11 AM
👮 pdi03_percent ped surg when foreign body was unintentionally left, unadjusted_KCH_SPC	4/30/2007 8:11 AM
👮 pdi04_percent neonates with pneumothorax resulting from medical care, unadjusted_KCH_SPC	4/30/2007 8:11 AM
👮 pdi05_percent ped pats with pneumothorax resulting from medical care, unadjusted_KCH_SPC	4/30/2007 8:11 AM
ndi06_percent pediatric heart surgery patients who die, unadjusted_KCH_SPC	5/2/2007 9:49 AM

code	description	Audubon	Norton	Suburban
AMI-1	% heart attack patients given aspirin at arrival	90%	92%	93%
AMI-2	% heart attack patients given aspirin at discharge	92%	97%	90%
AMI-3	% heart attack patients with LVSD given ACEI/ARB	38%	91%	
AMI-4	% heart attack smoking pats. given smoking counseling	61%	79%	
AMI-5	% heart attack patients given beta blocker at discharge	88%	94%	100%
AMI-6	% heart attack patients given beta blocker at arrival	73%	64%	
HF-1	% heart failure inpatients given complete discharge instructions	19%	10%	50%
HF-2	% heart failure inpatients with LVF assessment	83%	79%	97%
HF-3	% heart failure inpatients prescribed ACEI/ARB at discharge	51%	80%	71%
HF-4	% heart failure smoking pats. given smoking counseling	57%	32%	
PN-1	% pneumonia inpatients with oxygenation assessment	96%	98%	98%
PN-2	% pneumonia inpatients given pneumococcal vaccination	45%	4%	46%
PN-3b	% pneumonia inpt blood cultures before first antibiotic	84%	88%	93%
PN-4	% pneumonia inpatients given smoking counseling	64%	38%	68%
PN-5b	% pneumonia inpts given antibiotic w/in 4hrs of arrival	71%	68%	84%
PN-6	% pneumonia inpatients given recommended antibiotic	74%	82%	83%
SIP-1	% select surg. patients given preop. antibiotic on time	80%	80%	96%
SIP-3	% select surg. pats. w/antibiotic discontinued on time	58%	80%	81%

Last half of **2003** (or first two quarters)

Both early and late results were compared to the July 2005 – June 2006 U.S. median from Hospital Compare.

code	description	Audubon	Norton	Suburban
AMI-1	% heart attack patients given aspirin at arrival	99%	95%	98%
AMI-2	% heart attack patients given aspirin at discharge	99%	98%	97%
AMI-3	% heart attack patients with LVSD given ACEI/ARB	85%	72%	
AMI-4	% heart attack smoking pats. given smoking counseling	98%	97%	
AMI-5	% heart attack patients given beta blocker at discharge	99%	97%	100%
AMI-6	% heart attack patients given beta blocker at arrival	96%	83%	
HF-1	% heart failure inpatients given complete discharge instructions	86%	68%	92%
HF-2	% heart failure inpatients with LVF assessment	96%	94%	99%
HF-3	% heart failure inpatients prescribed ACEI/ARB at discharge	68%	80%	75%
HF-4	% heart failure smoking pats. given smoking counseling	91%	100%	
PN-1	% pneumonia inpatients with oxygenation assessment	100%	97%	100%
PN-2	% pneumonia inpatients given pneumococcal vaccination	86%	84%	95%
PN-3b	% pneumonia inpt blood cultures before first antibiotic	82%	82%	89%
PN-4	% pneumonia inpatients given smoking counseling	94%	100%	95%
PN-5b	% pneumonia inpts given antibiotic w/in 4hrs of arrival	80%	71%	78%
PN-6	% pneumonia inpatients given recommended antibiotic	88%	85%	93%
SIP-1	% select surg. patients given preop. antibiotic on time	89%	87%	93%
SIP-3	% select surg. pats. w/antibiotic discontinued on time	78%	88%	87%

Last half of **2005** 

Both early and late results were compared to the July 2005 – June 2006 U.S. median from Hospital Compare.

code	description	Audubon	Norton	Suburban
AMI-1	% heart attack patients given aspirin at arrival	99%	92%	98%
AMI-2	% heart attack patients given aspirin at discharge	99%	98%	100%
AMI-3	% heart attack patients with LVSD given ACEI/ARB	73%	87%	
AMI-4	% heart attack smoking pats. given smoking counseling	100%	98%	
AMI-5	% heart attack patients given beta blocker at discharge	98%	99%	100%
AMI-6	% heart attack patients given beta blocker at arrival	98%	86%	
HF-1	% heart failure inpatients given complete discharge instructions	57%	40%	33%
HF-2	% heart failure inpatients with LVF assessment	96%	98%	97%
HF-3	% heart failure inpatients prescribed ACEI/ARB at discharge	73%	79%	82%
HF-4	% heart failure smoking pats. given smoking counseling	100%	93%	
PN-1	% pneumonia inpatients with oxygenation assessment	100%	100%	99%
PN-2	% pneumonia inpatients given pneumococcal vaccination	88%	85%	88%
PN-3b	% pneumonia inpt blood cultures before first antibiotic	90%	93%	95%
PN-4	% pneumonia inpatients given smoking counseling	97%	98%	90%
PN-5b	% pneumonia inpts given antibiotic w/in 4hrs of arrival	85%	78%	79%
PN-6	% pneumonia inpatients given recommended antibiotic	93%	94%	94%
SIP-1	% select surg. patients given preop. antibiotic on time	85%	88%	93%
SIP-3	% select surg. pats. w/antibiotic discontinued on time	76%	88%	85%

Last half of 2006

Both early and late results were compared to the July 2005 – June 2006 U.S. median from Hospital Compare.



## **Limitations of our report**

- Inherently suspect because self-report
- It is only comparative among our hospitals, and compared to the state and the nation (or as close as possible) – it is not head-to-head comparative

(But, the indirect adjustment method does not allow head-to-head.)



## Concerns

- These are mostly the wrong indicators. We are still in a peer-review, sentinel / "never" event mindset. Instead, we should be tracking [and reducing] "known complications" and common problems.
- We can't trust the validity/comparability of these indicators.

Too many loose definitions. No real audit of accuracy / interrater agreement. No check on local decisions to exclude cases.

... And, it all starts with wildly inconsistent and unverified physician documentation.



## Concerns

• We have the wrong mental model, at least at this stage of development. We think we're building a comparative shopping guide for lay consumers.

Public reporting isn't just about informing the public; it's about informing the experts who advise the public. *Consumer Reports* and NHTSA crash test reports help even those who never read them.

And public reporting is about informing the people who can actually do something about the quality we hope to measure.



## We're all worried about...

- ... unintended side effects
- ... how real any of this is, ... whether public reporting and P4P improve "real" quality
- ... killing objectively assessed quality and transparency before they have a chance to prove their positive impact on healthcare.