

## Digital Whiteboards are proven valuable

Whiteboards are a longstanding communication tool for hospital staff, patients and families. Digital whiteboards retain the benefits of the traditional boards while overcoming the challenges. Handwritten marker boards are time-consuming to keep updated, accurate, and legible. Digital whiteboards can integrate with an electronic health record (EHR) to update automatically, accurately, in an easier to read format.



## A model for hospital tech – doing a task better, faster, at less cost, with more connection between patients & staff

### COMPARING TRADITIONAL & DIGITAL WHITEBOARDS

A cohort study conducted at a 100-bed acute care hospital in Texas measured the outcomes of implementing a digital whiteboard solution. The evidence showed digital whiteboards provide advantages in all measured categories.

#### ACCURACY

EHR integrations resulted in improvements to information accuracy, completeness and consistency.

#### TIME SAVINGS

Automated updates reduce the time needed to collect data, find markers, clean boards, and hand scribe information.

#### SATISFACTION

Patients loved the aesthetic of digital whiteboards and found the information trustworthy and easier to read.

#### EDUCATION OUTCOMES

Displaying the status of assigned video education increased both assigning and completion rates.

#### VALUE

Digital whiteboards provide a meaningful return on investment through longevity, low maintenance costs, efficiencies and outcome gains.

## Digital whiteboards overwhelmingly outperformed traditional whiteboards and were highly approved by patients and staff.

**CONTACT US TODAY:** [info@sonifihealth.com](mailto:info@sonifihealth.com) | [sonifihealth.com](http://sonifihealth.com)

Copyright © 2023 SONIFI Solutions, Inc. All rights reserved. SONIFI is a registered trademark of SONIFI Solutions, Inc. All other trademarks used are the property of their respective owner. Information contained herein deemed accurate as of 031523. Results will vary by bed count & feature implementation. HCS1167DC18

## Automations improve information accuracy

A digital whiteboard that is integrated with the hospital EHR refreshes every several minutes to present the most current data available in the medical record and other associated hospital systems. Prior to installing the digital whiteboard solution, the facility audited the consistency and accuracy of its handwritten data on traditional whiteboards. Twenty-two patient room audits were conducted and the results found inconsistencies particularly in the areas of patient goals, pain management and expected discharge dates.

**Our Goal is to provide EXCELLENT Care**


ROOM #/BED # 1-444-1	TODAY IS: <u>March 10</u> Sun Mon <u>Tue</u> Wed Thu Fri
Care Team: Dr. Davidson Judy W. RN Counselor Name:	I like to be called: Brayden
YOUR PLAN FOR THE DAY: Chest X-Ray Pulmonary Func	
ACTIVITY GOALS: <u>Walk 10 min 2x day</u>	
FLUID INTAKE GOALS:	
FOOD INTAKE GOALS:	
MEAL TIMES: <u>8:00 am 12:00pm 6:00pm</u>	
OTHER:	


My preferred name is: **Brayden**  
 Language: **English**  
 Emergency Contact: **Sue (123) 456-7777**  
 Unit: **Pediatric** Room: **1-444-1**  
 Anticipated Discharge: **Thursday, March 12**  
**Tuesday, March 10, 8:17 AM**




**My Care Team**

<b>Judy W.</b> Registered Nurse	<b>Emily T.</b> Respiratory Therapist
<b>Bethany B.</b> Child Life Specialist	<b>Dr. Kevin Davidson</b> Pulmonologist

**Today's Schedule**

 Chest X-Ray - Morning  
Pulmonary Function Test - Afternoon

<b>My Assigned Education</b>	<b>My Meal Orders</b>
<b>2</b> Videos Remaining	Dinner Tomorrow, Order by 9:00 PM for delivery
<b>My Wellness Goal</b>	<b>My Pain</b>
Walk for 10 minutes twice today	Score: <b>2</b> 
	Goal: <b>0</b>

 Last Updated:  

## Automatic, real-time updates

### WHITEBOARD COMPLETION RATE COMPARISON

	TRADITIONAL	DIGITAL*
Day / date	95%	100%
Room phone number	80%	100%
Nurse	100%	100%
Physician	95%	100%
Patient care technician	100%	100%
Other provider (e.g. CNL, surgeon)	55%	100%
Goal for today	65%	100%
Expected discharge (date/time)	30%	100%
Pain score & goal	30%	100%

\*Data accuracy on digital whiteboard solution is dependent on the accuracy of data in the EHR for each patient. Additional staff training may be required to support these outcomes.

## What patients say about...

### TRADITIONAL WHITEBOARDS

- I can't read it
- There is often bad handwriting
- It is not always correct or complete
- It looks dirty & smudged

### DIGITAL WHITEBOARDS

- I can see & read it!
- I love that people know & call me my preferred name
- The background is soft & comforting
- I'm informed & don't forget things

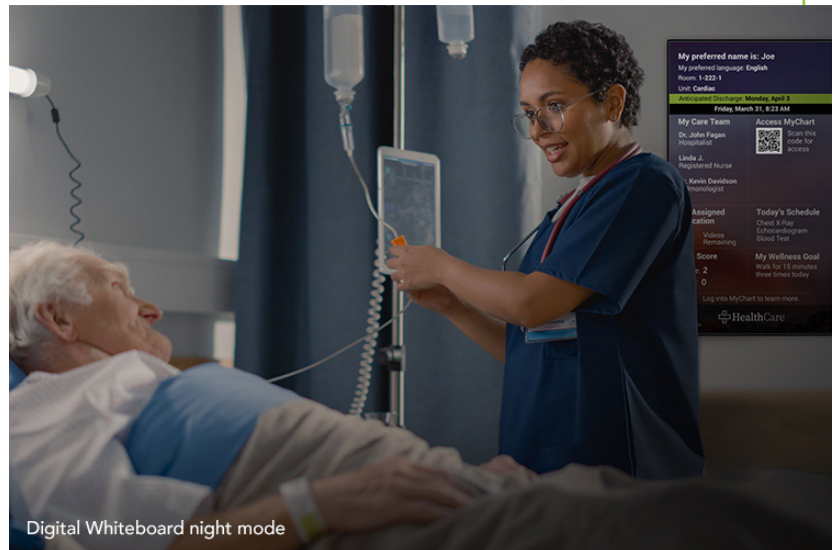
**CONTACT US TODAY:** [info@sonifihealth.com](mailto:info@sonifihealth.com) | [sonifihealth.com](https://sonifihealth.com)

Copyright © 2023 SONIFI Solutions, Inc. All rights reserved. SONIFI is a registered trademark of SONIFI Solutions, Inc. All other trademarks used are the property of their respective owner. Information contained herein deemed accurate as of 031523. Results will vary by bed count & feature implementation. HCS1167DC18

## EHR integration saves staff meaningful time

One of the biggest advantages of a digital whiteboard solution is workflow efficiency. Integrations with the existing medical record and key hospital systems (e.g. nutrition, scheduling) are leveraged to automate the whiteboard updates, eliminating redundant work for staff. There is no need for double entries or handwritten updates on the boards.

An observation-based and self-reported time study revealed that digital whiteboards save nearly 9 hours per day for a 22-bed unit when measuring the time required for nurses and patient care technicians to update the whiteboards. This time can be reallocated to more meaningful interactions with patients. Furthermore, **patients who would have been at the end of the rounding cycle receive information 90 minutes sooner with the digital solution.**



Staff can save **9 hours per day** by not manually updating whiteboards

### Average time spent updating traditional whiteboards

**1 min, 7 sec**  
updating each board

**8 mins**  
updating vital signs

**2.72 mins**  
updating each board

### INITIAL UPDATE

### PCT ROUNDS

### RN ROUNDS

### Daily time savings with digital whiteboards (22-bed unit)

**49**  
minutes per day

**360**  
minutes per day

**120**  
minutes per day



Per 2018 SONIFI Health and Texas hospital study, August – October 2018.

**CONTACT US TODAY:** [info@sonifihealth.com](mailto:info@sonifihealth.com) | [sonifihealth.com](https://sonifihealth.com)

Copyright © 2023 SONIFI Solutions, Inc. All rights reserved. SONIFI is a registered trademark of SONIFI Solutions, Inc. All other trademarks used are the property of their respective owner. Information contained herein deemed accurate as of 031523. Results will vary by bed count & feature implementation. HCS1167DC18

## Visual prompts improve education outcomes

The digital whiteboard displays a reminder of the current number of video education titles that have been assigned to a patient but not yet completed. Education outcomes data was collected from two Medical/Surgical Units at the studied hospital, before and after the go-live, to measure the impact of this visual prompt. One unit acted as the control group and the other as the study group.

The results indicate that compared to a control group measured during the same period, **the continuous education prompt provided by digital whiteboards contributed to an increase in the number of assignments made by staff and the percent of education viewed and completed by patients.**

## Staff assign more education titles & patient completion rates increase

**My preferred name is: Alex**  
Diet Type: NPO  
Emergency Contact: Jen (123) 456-7777  
Unit: Medical-Surgical Room: 1-111-1  
Preferred Language: English  
Friday, March 31, 8:23 AM

**My Care Team**  
Dr. Ann Hudson  
Surgeon  
Linda J.  
Registered Nurse  
Jake J.  
Patient Care Tech

**Pain Score**  
2

**My Assigned Education**  
2 Videos Remaining

**My Meal Orders**  
Dinner Tonight,  
Order by 12:00 PM  
for delivery

**My Wellness Goal**  
Walk for 15  
minutes three  
times today

Log into MyChart to learn more.

HealthCare  
Last Updated:

### EDUCATION UTILIZATION

(5-week averages)

	PRE VS POST IMPLEMENTATION	DIGITAL WHITEBOARD GROUP COMPARED TO CONTROL GROUP
<b>Video assignments</b> <i>Per discharge</i>	+ 202%	+ 59%
<b>Completed views</b> <i>Per discharge</i>	+ 10%	+ 20%

Assigned to  
completed  
ratios  
**INCREASED BY**  
**20%**

**CONTACT US TODAY:** [info@sonifihealth.com](mailto:info@sonifihealth.com) | [sonifihealth.com](https://sonifihealth.com)

Copyright © 2023 SONIFI Solutions, Inc. All rights reserved. SONIFI is a registered trademark of SONIFI Solutions, Inc. All other trademarks used are the property of their respective owner. Information contained herein deemed accurate as of 031523. Results will vary by bed count & feature implementation. HCS1167DC18



## Technology approach yields positive ROI

Although one may perceive the cost of a digital whiteboard solution to exceed that of its analog alternative, the more frequent replacement rate and supply costs associated with a traditional whiteboard prove otherwise. This study found the **direct product costs to be comparable** across a five-year period. When the staff time savings correlated with an EHR-integrated whiteboard are also considered, a hospital's return on investment is significant.

DIRECT PRODUCT COST ESTIMATES	TRADITIONAL WHITEBOARD	DIGITAL WHITEBOARD*
Year 1 investment per bed*	\$500	\$1,300
Replacement rate per 5 years	Twice	Zero
<b>5 year cost per bed</b> (Acquisition, installation, supplies, maintenance & replacements)	<b>\$1,250</b>	<b>\$1,500</b>

\*Based on 100-bed implementation model & self-reported costs from hospital studied in Texas.

**A standard 100-bed digital whiteboard implementation can be expected to deliver a positive return on investment in Year 1.**

### STAFF PRODUCTIVITY SAVINGS

Financial impact of time  
reallocated to direct patient care

### DIGITAL WHITEBOARD

Removal of manual whiteboard  
updates during staff rounding

STAFFING	
<b>Hourly FTE salary</b> Average for PCT + RN	\$20.00
<b>Time savings</b> Per bed, per day	21.82 mins
<b>FTE salary savings</b> Per bed, per day	\$7.27
<b>5 year staff salary dedicated to board updates</b> (100 beds)	<b>\$1,281,301</b>
<b>Annualized cost savings</b> (5 year average)	\$256,260.20

\*Based on 100-bed implementation model & self-reported costs from a hospital studied in Texas in 2018.



Digital whiteboards  
**SAVE NEARLY**

**\$1.3**  
**MILLION**

in the first 5 years

**CONTACT US TODAY:** [info@sonifihealth.com](mailto:info@sonifihealth.com) | [sonifihealth.com](https://sonifihealth.com)

Copyright © 2023 SONIFI Solutions, Inc. All rights reserved. SONIFI is a registered trademark of SONIFI Solutions, Inc. All other trademarks used are the property of their respective owner. Information contained herein deemed accurate as of 031523. Results will vary by bed count & feature implementation. HCS1167DC18