









SHARPC Coordinated Safety Enhanced Guidelines

Project Leader: Todd R Johnson

Project Co-Leaders: Yang Gong, Jeff Belden

Primary Guidelines Products

Wt: 85.300 to/188 to

HGB: 14.3 ptl.

GFR (non AA): 92.59

Total Chol: H 205 mottl.

Ka: hemolyzed MicroAlb/Cr 183 GFR (AA): 112.22 ml/mir

Smoking Hx: Non Smoker/History of Smoking roads2100

85.400 kg/181 km

109.21 mL/m

Potential Quality Clarified

No Action

4: Annual LDL Cholestero

(10/05/09) 193 molt

Safety Enhanced Design Brief Making Effective Use of Color

Carefully used colors can dramatically improve the efficiency and safety of health information systems by drawing attentio

perceive differences and trends.

Incorrectly used colors can make a

display hard to use, hard to interpret and

To maximize the communication

penefits of color, design -Use gray scale, then add color sparingly Colors emphasize only title and high (orange) / low (blue) values

To group items into different categories

To show sequential

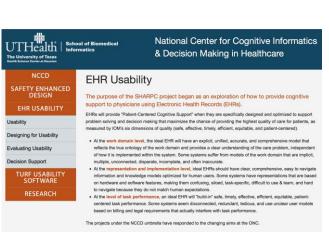
-Use 1 color (for

-Use no more than 7

ranges of quantitative

sequential) and 2 colors

(for diverging) values





visualizes sequential ranges

Safety Enhanced Design Briefs Todd Johnson

There are just a few simple rules necessary to understand how it works Each bar represents the history of a single medication (e.g. citalopram started at 10 mg, and progressively increased to 40 mg daily). The timescale can be adjusted. The color black represents the maximum dose of that particular medication. Shades of gray represent progressively lower doses (lighter means lower). At a glance, there is a wealth of information. It's straightforward

- list of medications in a single view. It's very efficient. The user won't need to keep different pieces of information in working memory or make written notes just to keep track of details sca tered across several EHR views. Patterns emerge visually (from preattentive attributes like color, length, and proximity) that would be far more difficult to deduce from text or numerical data
- Zooming in on an area of interest allows exploration of more de tail (text explanations, dose details, and even adherence informa tion if pharmacy refill data is available to the EHR) to confirm
- · Filtering may show only active medications, discontinued medica tions, or both to help answer other questions that arise during the inquiry. ("Why was this medication stopped here, and a switch

patient and caregiver, pharmacist, mental health professional, health oach, and any medical specialist. It can accommodate long lists of medications. A dozen medications can be quite common. Twenty med

Maximum Dos cations would not be surprising. Thirty medications, sadly, may not b rare. The timeline view handles the visual burden with ease. Let's lool at a gallery to demonstrate how.

The timeline efficiently shows an entire medication history in a single view. The user can tell at a glance important details about the medication dose at any particular point in time, and allows comparison to other medication dose natterns simultaneously

It is a tool for data visualization, whose mantra is "overview first, then zoom and filter, then details-on-demand.

EHR Usability Interactive iBook Jeff Belden

EHR Usability Website Yang Gong

sbmi.uth.edu/nccd/



National Center for Cognitive Informatics & Decision Making in Healthcare

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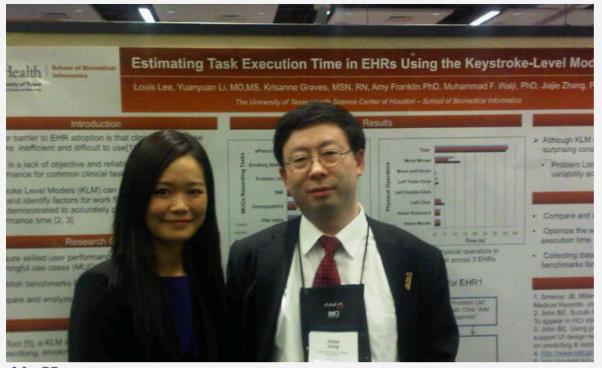
SAFETY ENHANCED DESIGN

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SAFETY ENHANCED DESIGN

EHR USABILITY

Usability

Designing for Usability

General Design Principles & Guidelines

Inspirational Prototypes

Workflow

Systematic Yet Flexible Systems

Evaluating Usability

Decision Support

General Design Principles & Guidelines

A great user interface follows established human interface design principles that are based on the way users (doctors, nurses, patients etc.) think and work. The following are 14 general design principles that can be applied to the development of EHRs:

<u>Consistency</u>	<u>Visiblity</u>	<u>Match</u>	<u>Minimalism</u>	Memory	<u>Feedback</u>	Flexibility
Error Messages	Prevent Errors	<u>Closure</u>	<u>Undo</u>	<u>Language</u>	Control	<u>Help</u>

- Consistency and standards. Users should not have to wonder whether different words, situations, or actions mean the same thing. Standards and conventions in product design should be followed.
- 2. <u>Visibility of system state</u>. Users should be informed about what is going on with the system through appropriate feedback and display of information.
- 3. <u>Match between system and world</u>. The image of the system perceived by users should match the model the users have about the system.
- 4. , Minimalist Design. Any extraneous information is a distraction and a slow-down. Less is more.
- 5. <u>Minimize memory load</u>. Users should not be required to memorize a lot of information to carry out tasks. Memory load reduces users capacity to carry out the main tasks.

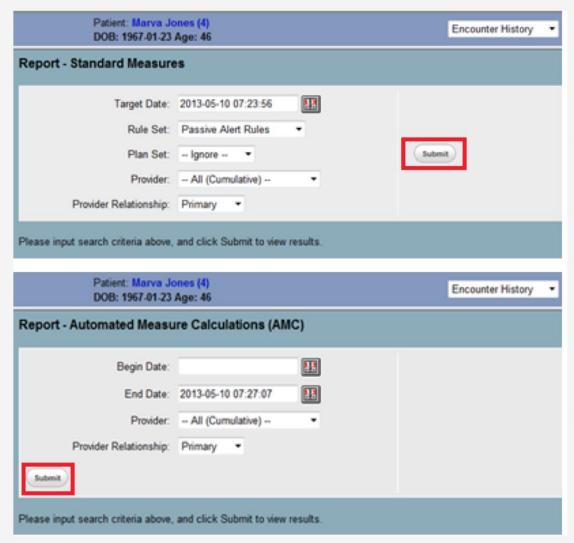


Figure 1. Inconsistent placement of controls.

This is a bad example because the "Submit" button appears in different places when filling the report.

The system should also to use consistent language.
Some terminology and languages are widely used in the clinical settings or pre-existing clinical applications. Make sure they do not have different meanings in the EHR.
Otherwise, users may have incorrect understanding of displayed information and act erroneously.

In addition to consistent display of information, another important point is to offer

consistent user-system interactions. For example, the data input method and process, as well as corresponding assistant functionalities (e.g., filtering, sorting, and alerting etc.) should be standardized and remain consistent. That uniformity will potentially accelerate operation processes as the user repeatedly interacts with the system. Figure 2 shows an example that goes against this rule.



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SAFETY ENHANCED DESIGN

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EHR Style Guide iBook

EHR USABILITY

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What is Safety Enhanced Design?

Safety in healthcare is a hot-button topic today, and with good reason. One of the major advantages of electronic health records is their potential to increase patient safety by preventing, detecting and aiding in the recovery from human errors. In order to turn that potential into reality, the ONC has set certification standards for safety-enhanced design (SED), making patient safety a primary focus in the design of an EHR.

Certification requires that designers follow two major steps:

- 1. Use a formal User Centered Design (UCD) process during development
- 2. Perform Summative Usability Testing on specific areas of the product.

UCD procedures have been specified in detail in several ISO standards, listed below. These are not the only acceptable standards, but the point is that a formal UCD procedure must be followed during design and development, and the procedure must be identified or described as part of the certification process.

The essential document to read and follow is <u>NISTIR 7742 Customized Common Industry Format Template for EHR Usability Testing</u>. It outlines how the ONC requires documentation of the results of summative usability testing.

The Central Requirement: Summative Testing

The second step, **summative usability testing**, is described in detail in "<u>Test Procedure for §170.314(g)(3) Safety-enhanced design</u>". In addition, ONC provides a handy, elaborate template, <u>NISTIR 7742 Customized Common Industry</u>

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SAFETY ENHANCED DESIGN

Safety Enhanced Design Briefs

About these Briefs

SEDB-G01 Making Effective Use of Color

SEDB-G02 Effective Table Design

SEDB-G03 Reducing Wrong Patient Selection Errors

SEDB-MU01 Drug-drug, drug-allergy interaction checks

SEDB-MU04 Clinical Decision Support

SEDB-MU05 Electronic Prescribing

EHR Style Guide iBook

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Safety Enhanced Design Briefs

About these briefs Who should use these briefs How to use these briefs

We welcome your feedback on these guidelines. Please email comments to sharpc@uth.tmc.edu.

General Briefs

SEDB-G01	Making Effective Use of Color	PDF	More Info
SEDB-G02	Effective Table Design	PDF	More Info
SEDB-G03	Reducing Wrong Patient Selection Errors	PDF	More Info
SEDB-G04	Result Management	PDF	More Info

Specific Meaningful Use Cases

SEDB-MU01	Drug-drug, drug-allergy interaction checks	PDF	More Info
SEDB-MU02	Medication list	PDF	More Info
SEDB-MU03	Medication allergy list	PDF	More Info
SEDB-MU04	Clinical decision support	PDF	More Info
SEDB-MU05	Electronic prescribing	PDF	More Info
SEDB-MU06	Clinical information reconciliation	PDF	More Info
SEDB-MU07	Electronic medication administration record	PDF	More Info
CEDD MI IOO	Computarized Prostitioner Order Entry	DDE	Mara Info

DESIGN

Safety Enhanced Design Briefs

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SEDB-G02 Effective Table Design

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SEDB-MU01 Drug-drug, drug-allergy interaction checks

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SEDB-MU05 Electronic Prescribing

EHR Style Guide iBook

EHR USABILITY

About these briefs	Who should use these briefs	How to use these briefs
	Back to SED Brief Menu	

Version 1: Making Effective Use of Color

Tools for Selecting Effective Color Schemes

Color Brewer 2.0	Web-based tool for selecting appropriate color schemes based on your data type: qualitative (also called categorical), sequential, and diverging. Includes options for color-blind safe schemes.
Coblis	A color blindness simulator

Websites

Colblindor	Site for learning more about color-blindness. Includes tests and tools for checking designs (Coblis)
Perceptual Edge	Stephen Few's website on tools and techniques for visual business intelligence.

Detailed Information for Selecting Effective Color Schemes

Stephen Few's <u>Practical Rules for Using Color in Charts</u> is an excellent summary of how to use color effectively and how to avoid common mistakes with color display.

Title and _____ Subtitle

Safety Enhanced Design Brief **Making Effective Use of Color**

Background -

Guidelines

Pointer to web

Carefully used colors can dramatically improve the efficiency and safety of health information systems by drawing attention to important items and making it easier to perceive differences and trends.

Incorrectly used colors can make a display hard to use, hard to interpret and misleading.

To maximize the communication benefits of color, design -Use gray scale, then add color sparingly

> Colors emphasize only title and high (orange) / low (blue) values

BP: H	178/80 mmHg	(03/02/10)	H 169/84 mmHg	(12/30/09)		├ ~~
Wt:	85.300 kg/188 lbs	(12/30/09)	85.400 kg/181 lbs	(12/29/09)		1 1 1
BMI:	0	(02/08/10)	0	(02/01/10)		4
Smoking Hx:	Non Smoker/History of Smoking	(03/02/10)	Non Smoker	(12/14/09)		
HGB:	14.3 g/dL	(03/02/10)	16.0 g/dL	(12/21/09)	1	4
K+:	hemolyzed mmol/L	(03/02/10)	3.8 mmol/L	(12/21/09)		
Cr:	0.84 mg/dL	(03/02/10)	0.86 mg/dL	(12/21/09)	1	\sim
MicroAlb/Cr:	18.3 mcg/mg Creat	(10/05/09)	H 52.8 mcg/mg Creat	(11/14/08)	1	1
GFR (AA):	112.22 mL/min	(03/02/10)	109.21 mL/min	(12/21/09)	1	
GFR (non AA):	92.59 mL/min	(03/02/10)	90.11 mL/min	(12/21/09)	1	
Glu:	105 mg/dL	(03/02/10)	H 123 mg/dL	(12/21/09)	1	-
HbA1c:	5.7%	(10/05/09)	5.8%	(03/18/09)	1	TT 1
Total Chol: H	205 mg/dL	(10/05/09)	193 mg/dL	(09/30/09)	1	مسا
HDL: L	26 mg/dL	(10/05/09)	L 31 mg/dL	(09/30/09)	11	Щ
Chol/HDL:	7.9	(10/05/09)	6.2	(09/30/09)		W

Compliance Heatmap

DIAGNOSIS

430

431

433.01

433.10

433.11

433.21

Month, Year of Date of Discharge

To group items into different categories -Use no more than 7 colors (4 recommended)

To show sequential ranges of quantitative

> -Use 1 color (for sequential) and 2 colors (for diverging) values

2-color heatmap of varying intensity visualizes sequential ranges

- Vary color intensity from pale (low values) to darker (extreme values)

Compliance Rate

Unit 3

Unit 2

Unit 1

To ensure consistency, learnability, and to prevent misinterpretation, create rules for:

- Colors for critical values

To ease understanding

- Colors for severity of warnings and alerts, etc.
- Colors for different categories of

items

- Colors combined with differentiators (tooltips,

symbols, icons, positions) Mouse-over text explains dot coloring

and learnability of colors

-Use text, tooltips or legends

- 10% of men and 5% of women are color-blind). Combine color with an image, shape, position, or text to
- convey same meaning. In ① prefixes L (low) and H (high) are in separate columns to reinforce color To select appropriate color schemes, use tools that match
- schemes to data types and support color-blind safe choices (see http://colorbrewer2.org/) Use tools that preview design as it

This Patient Measure 1: Annual HbA1c patient met this performance goal 0 0 4: Annual LDL Cholesterol 6: Annual Microalbumin 7: Eye Exam atient did not meet this 3 00:54:00) performance goal

would be seen by a color blind user (see http://www.color-blindness.com/coblis-color-blindness-simulator)



Potential Quality

Clarified

No Action

voember, 2011
January, 2012
January, 2012
March, 2012
April, 2012
May, 2012

Hospice/ED



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SAFETY ENHANCED DESIGN

Safety Enhanced Design Briefs

EHR Style Guide iBook

EHR USABILITY

TURF USABILITY SOFTWARE

RESEARCH

EHR Style Guide iBook

In partnership with the <u>California HealthCare Foundation</u>, SHARPC is co-funding a project to develop an interactive, illustrated style guide designed to enhance EHR usability by recommending common user interface elements for key features such as:

- · the medication list,
- allergy list,
- · medication reconciliation,
- e-prescribing,
- computerized provider order entry (CPOE),
- · drug interaction and allergy alerts, and
- clinical decision support.

The vendor community will participate in iterative feedback opportunities.

Click **here** to see a working prototype of the e-book in HTML5.

Please see an <u>introductory slide deck</u> about the project to the EHRA Clinician Experience Workgroup on October 18, 2013.

The e-book will be publicly available and will be distributed to EHR vendors through the cooperation of their trade organization, the HIMSS EHR Association.

iBook

- The EHR Usability Style Guide
- Interactive eBook emphasizing:
 - clinical scenarios & examples
 - galleries of examples of before & after design makeovers
 - interactive widgets for exploratory learning
- Released in 2 formats
 - iBook (interactive)
 - PDF with web supplement

medications. The physician needs to have an overall awareness of the patients problems and medications (are they taking insulin? Are they on any high-risk drugs like warfarin?). We can call that "situational awareness" of the patient's overall medical picture.

Here's an example:

Medication List

aspirin 81 mg 1 tablet daily chlorthalidone 25 mg 1 tablet daily

citalopram 20 mg 1 tablet daily

Lantus 40 units at bedtime

lisinopril 20 mg 1 tablet daily

metformin 1000 mg 1 tablet 2 times a day

metoprolol XL 50 mg 1 tablet daily

naproxen 500 mg 1 tablet 2 times a day

omeprazole 20 mg 1 tablet daily

pravastatin 40 mg 1 tablet daily

trazodone 50 mg 3 tablets at bedtime

warfarin 5 mg 1 tablet daily on MWF, 1.5 tablets daily SuTuThSa

Avoid the temptation to add unneeded and unwanted detail here. Concise lists are easier to read. In this context, the physician doesn't need to see the quantity or the number of refills or the start dates.

We can make that easier to read by **emphasizing** the name of the drug, and de-emphasizing everything else. One method is to use gray text that is perceptibly different while still readable.

Use just enough difference to "make it pop".

Alphabetize the list. Why? The human brain would expect a list of text items to be alphabetical, to facilitate finding a particular name quickly in a long list. "Are they taking warfarin?" Just jump to the "w" section. Other views might have different sorting needs. We'll come to that later in this chapter.

INTERACTIVE 3.1 Interactive Table Medication List

Name	Dese	Sig (Frequency)	Quantity	Refills	Prescribed	Provider	Condition
aspirin	81 mg	1 tablet daily	75	3	16 Oct 2012	Dr. Walter R Lucas MD	Cardiovascular disease
chlorthalidon	e 25 mg	1 tablet daily	90	2	16 Oct 2012	Dr. Sudha Nahar MD	Hyptertension
citalopram	20 mg	1 tablet daily	30	0	30 Sept 2012	Dr. Walter R Lucas MD	Depression
Lantus	40 units	1 injection at bedtime	1200 units	0	20 Sept 2012	Dr. Walter R Lucas MD	Diabetes
lisinopril	20 mg	1 tablet daily	30	0	10 Aug 2012	Dr. Walter R Lucas MD	Hypertension
metformin	1000 mg	1 tablet daily	30	0	30 July 2012	Dr. Walter R Lucas MD	Diabetes
Metoproiol	XL 50 mg	1 tablet daily	30	0	18 July 2012	Dr. Walter R Lucas MD	Hypertension
naprosen	500 mg	1 tablet 2 times a day	30	0	30 June 2012	Dr. Walter R Lucas MD	Rheumatoid arthritis
omeprazole	20 mg	1 tablet daily	75	3	11 July 2013	Dr. Sudha Nahar MD	Gastroesophageal reflu disease
pravastatin	40 mg	1 tablet daily	48	2	7 Aug 2013	Dr. Sudha Nahar MD	High Cholesterol
tazodone	50 mg	3 tablets at bedtime	160	2	21 June 2013	Dr. Sudha Nahar MD	
Ventolin	5 mg	1 puff as needed	140	3	16 July 2013	Dr. Sudha Nahar MD	Asthma
warfarin	5 mg	1 tablet daily MWF 1.5 tablets daily SuTuThSa	45	3	16 July 2013	Dr. Sudha Nahar MD	Thrombosis

Tap to open the interactive widget of a patient's medication list you can sort and filter.

Clinical examples

erall awareness of the cing insulin? Are they all that "situational tre.

Here's an ex

me

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Interactive widgets (tap to launch)

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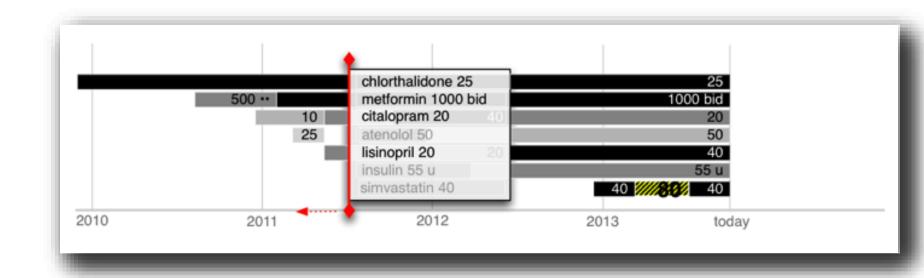
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Stakeholders

- EHRA Clinician Experience Workgroup
 - Reviewer volunteers
 - Dissemination partner
 - Vendor reps at design workshops
- Core team
 - U of Missouri Belden, Koopman, Moore
 - U of Maryland Plaisant
 - Involution Studios (Boston) Sonin
- Sponsors:
 - SHARP-C
 - California HealthCare Foundation

Overall aims

- Illustrative
- Inspirational
- Interactive



Clinical focus

- Clinical scenarios
- Annotated makeovers
- Interactive widgets for deeper learning

```
Name of medication
                                   Instructions
aspirin 81 mg
                       1 daily is this for hypertension?
                      1 dally How about this one? Yes.
chlorthalidone 25 mg
                      Or this one?
citalopram 20 mg
                      28 unit On thistione?
Lantus
                      ≟aily Or this one? ...
lisinopril 20 mg
                      1 twice a day
metformin 1000 mg
metoprolol XL 50 mg
naproxen 500 mg
omeprazole 20 mg
                      1 daily
                      1 dails
pravastatin 40 mg
trazodone 50 mg
                      2 at bedtime
                      1 daily MWF, 1.5 tabs daily TuThSaSu
warfarin 5 mg <
```

Evaluation component

- Did you find it?
- Did you use it?
- Do you want more books like it?

Coordination

- Coordinating examples and guidelines
- Referencing one-pagers and ehrusability.org



Questions?