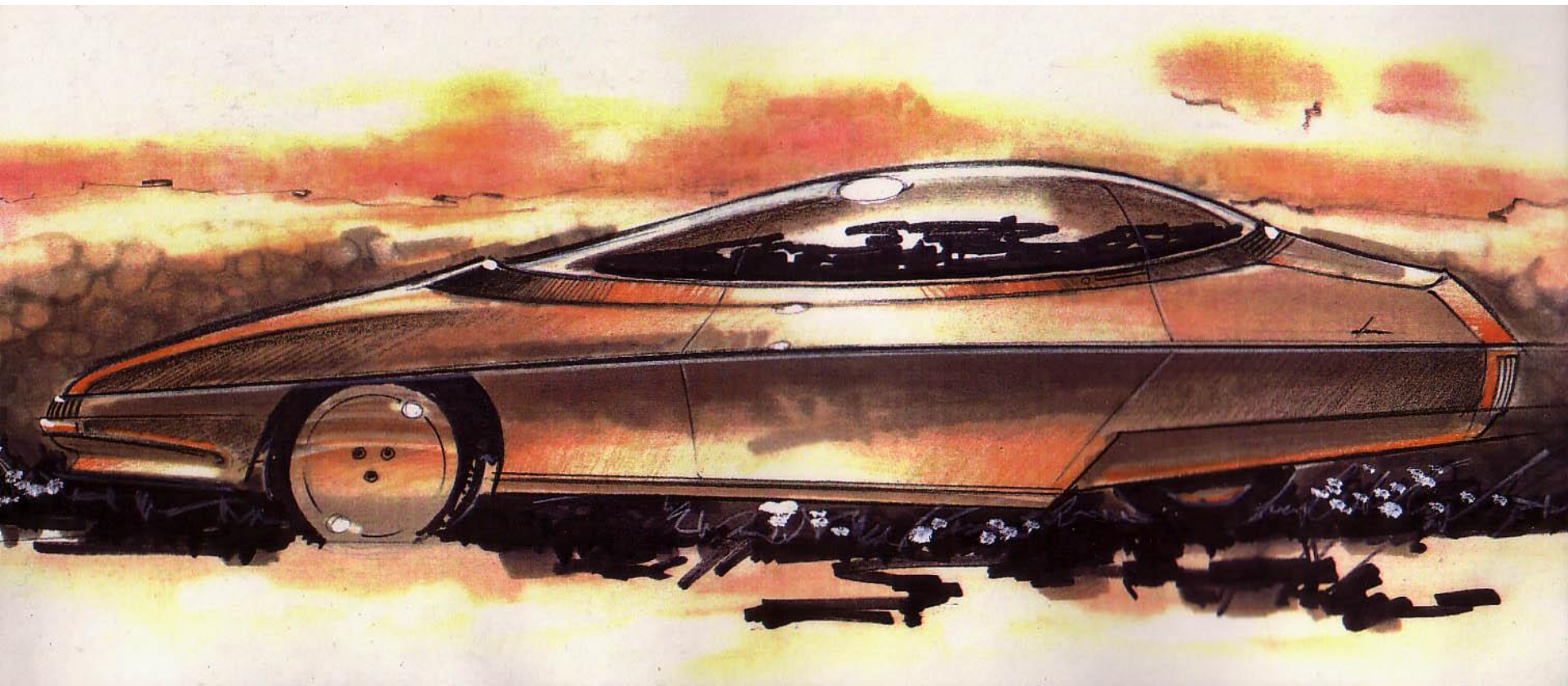




Fiji-on the way home from New Zealand





Post Grad projects at Columbus College of Art and Design with Jim Orr

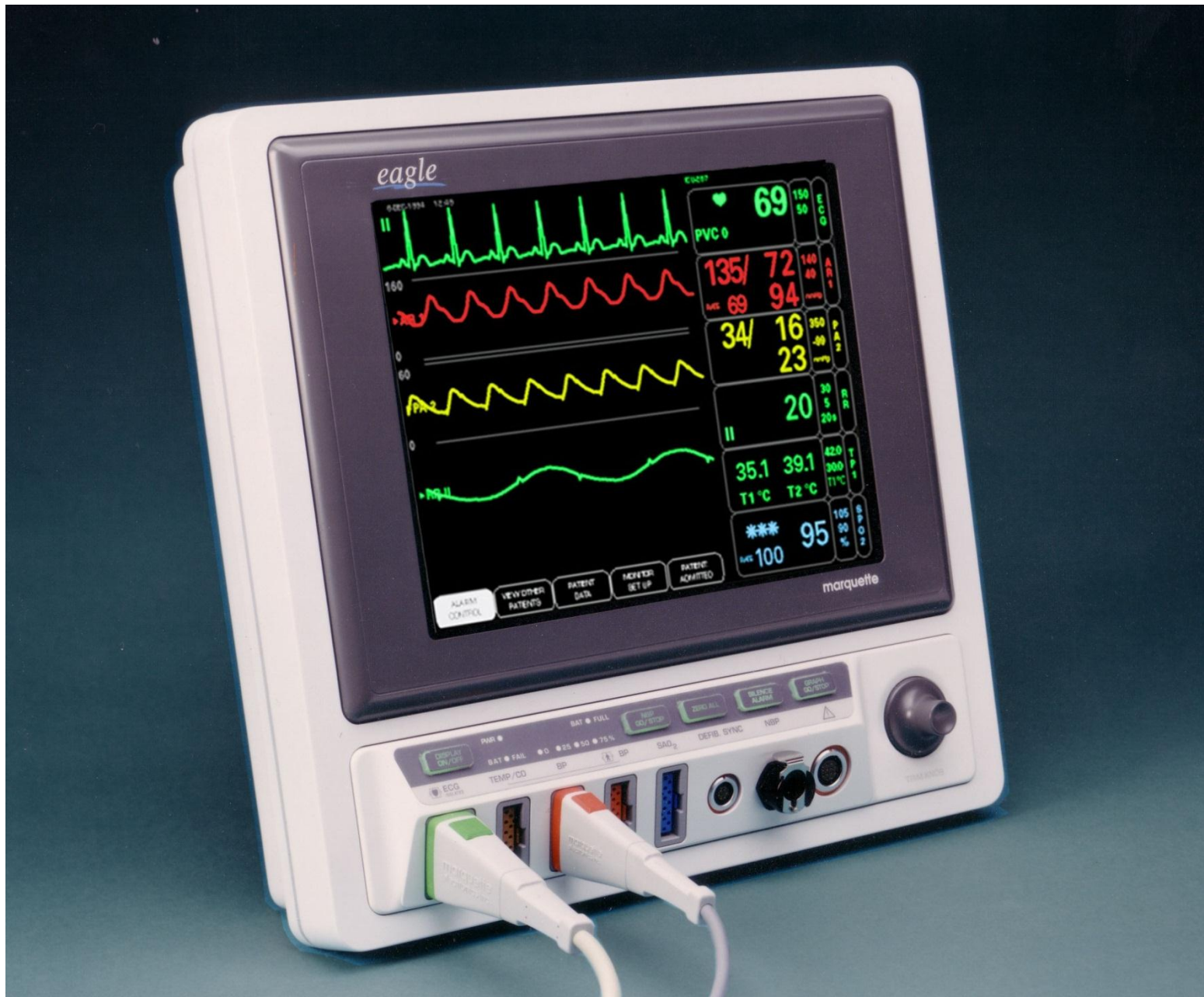


747 interior - Dave Ellies - Dallas





Whistler Radar Detector- Hari Design Group



First LCD configured monitor– Marquette Electronics



Configured patient monitor concept - Marquette Electronics





Dash monitor + Defibrillator production units-Marquette Electronics

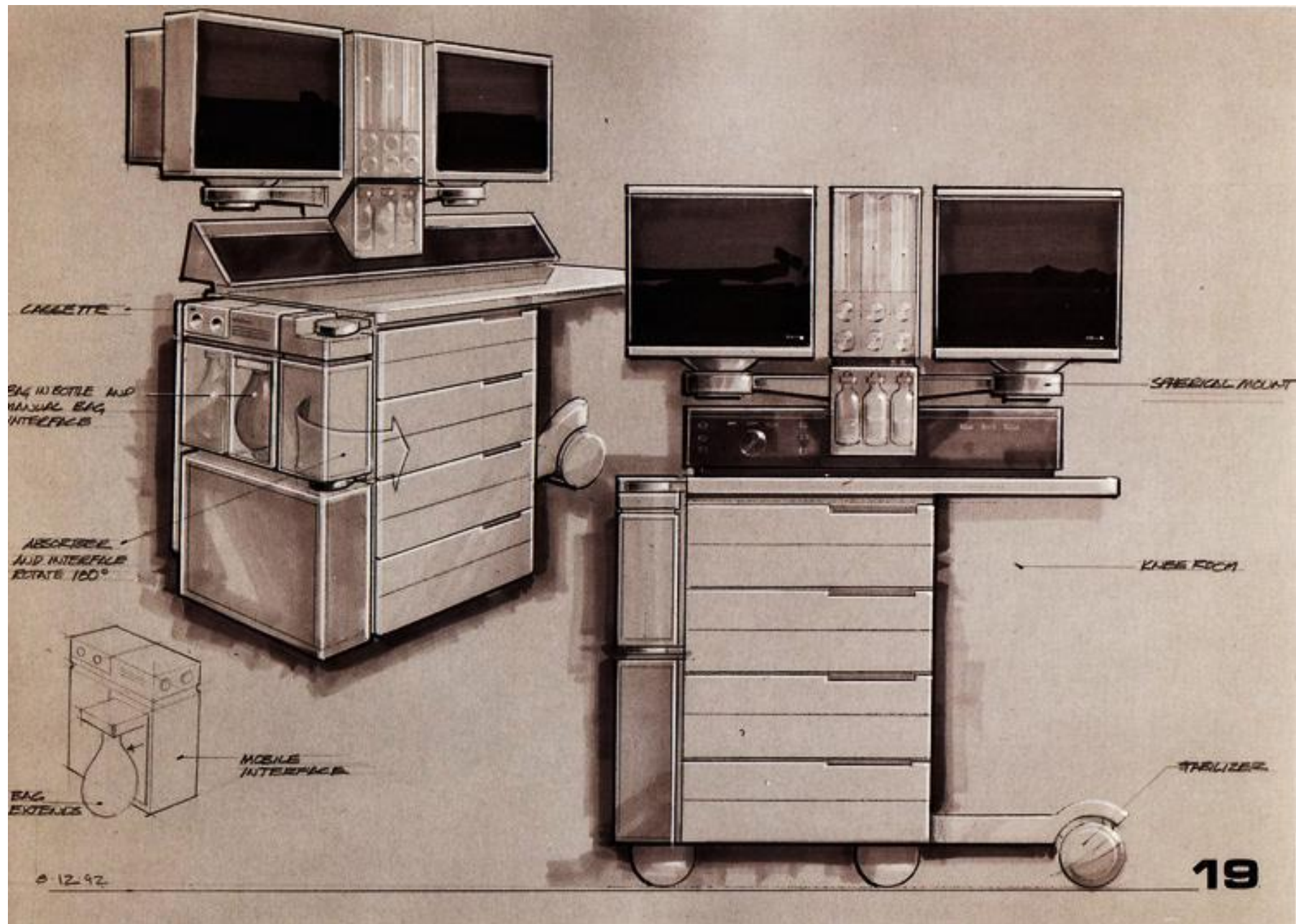


Remote Control for a Monitor- Marquette Electronics





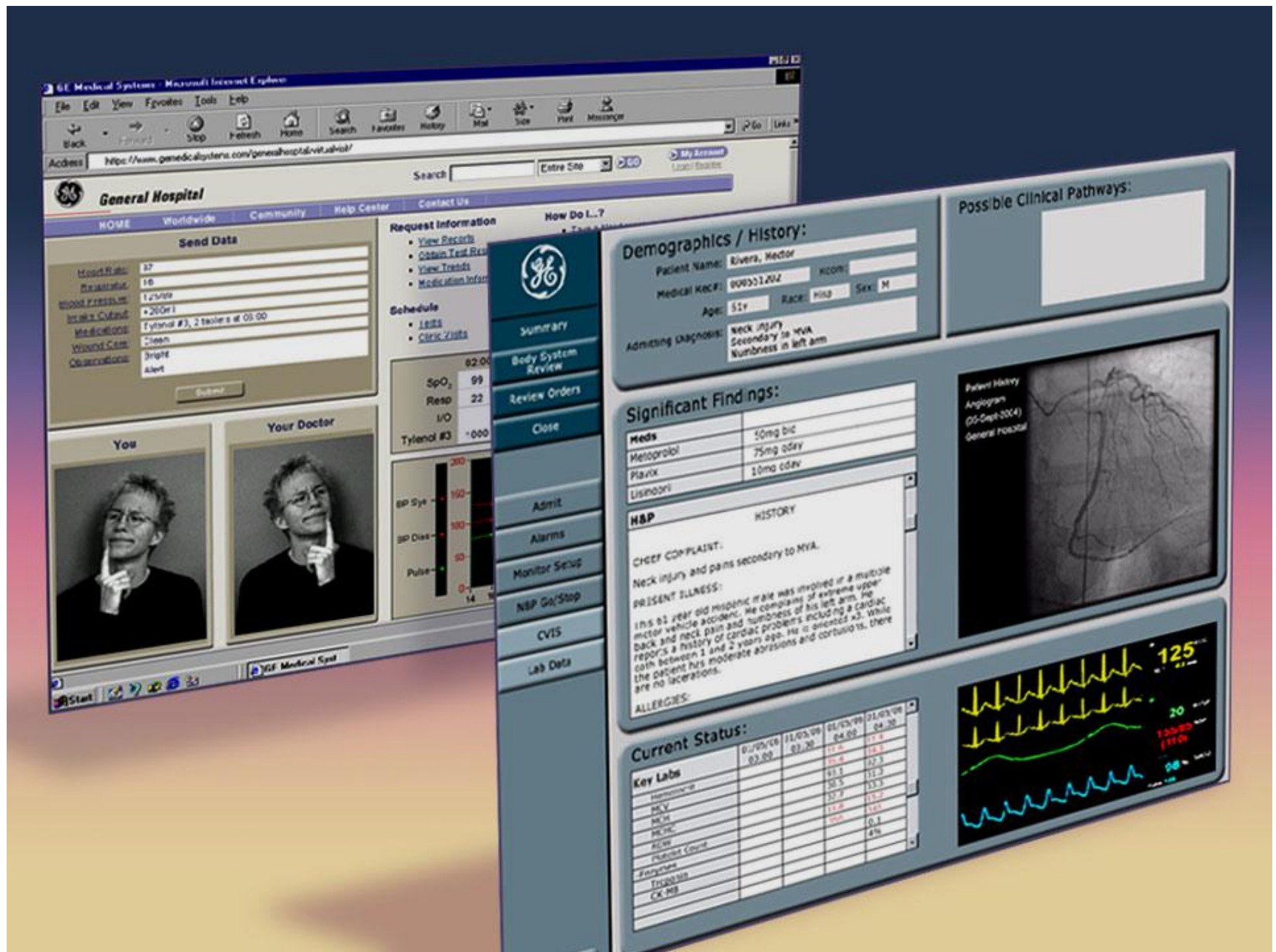
Solar configurable monitor Pro/E CAD - Marquette Electronics





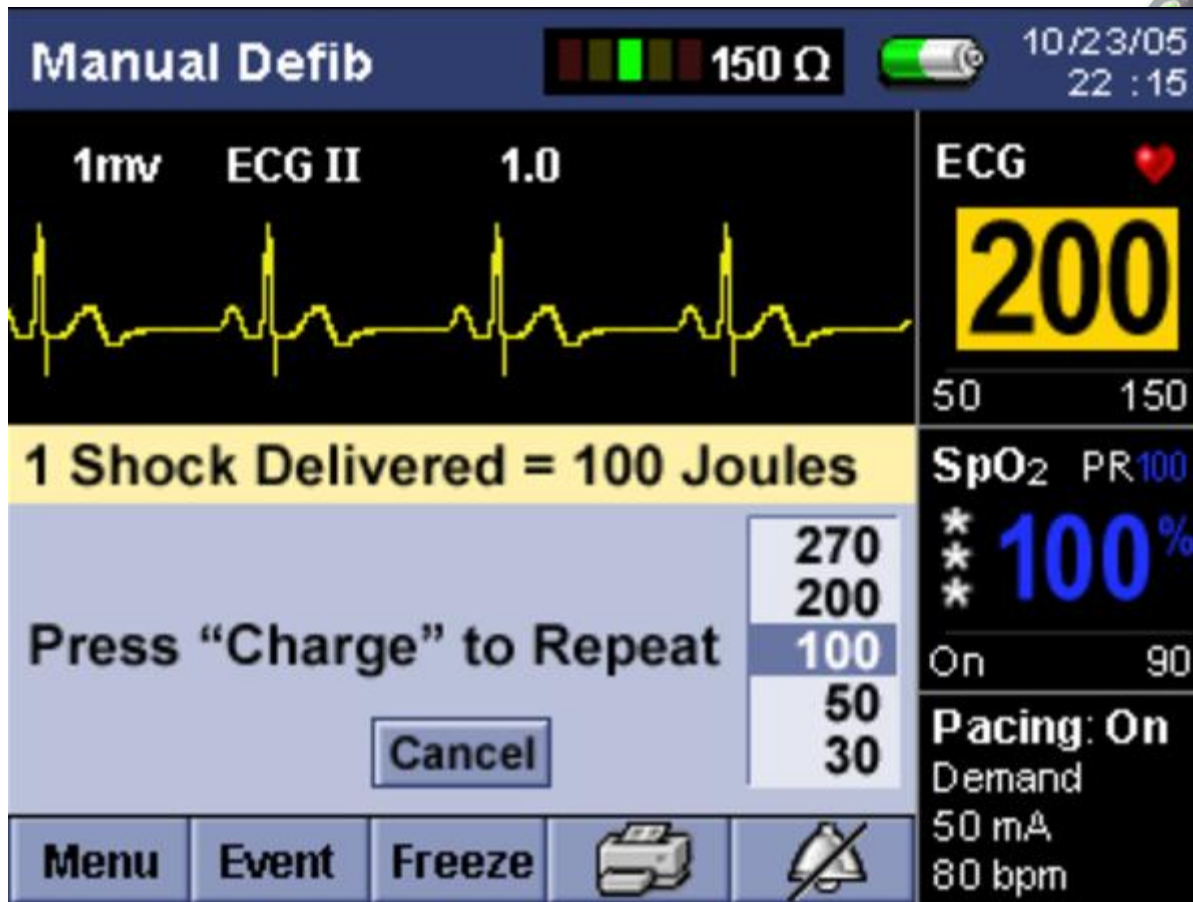


Scott Robinson-Supervisor, Barry Glasford-Usability, Susan Stuebe-UI Design, Peggy Howe-Graphics , George Hutchinson-HF Ph.D., Kira Raichert-UI Design



"Speed of Life" - Information Dashboard - Greg Lucier - GEHC











# Common User Interface (CUI) Requirements and Style

Version 6

Revision A

22 December 2006

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Internal Use Only

Figure 2: Examples of High Level Access buttons and Application Navigation

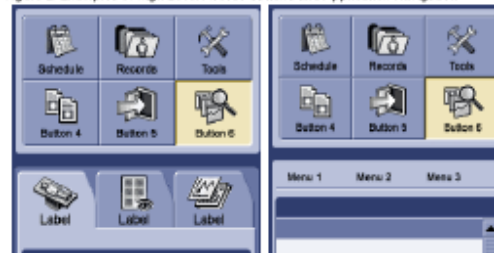


Figure 3: Top navigation layout sketch

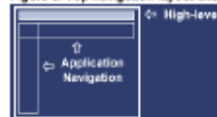
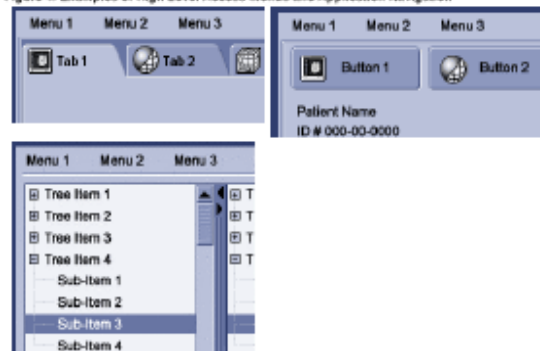
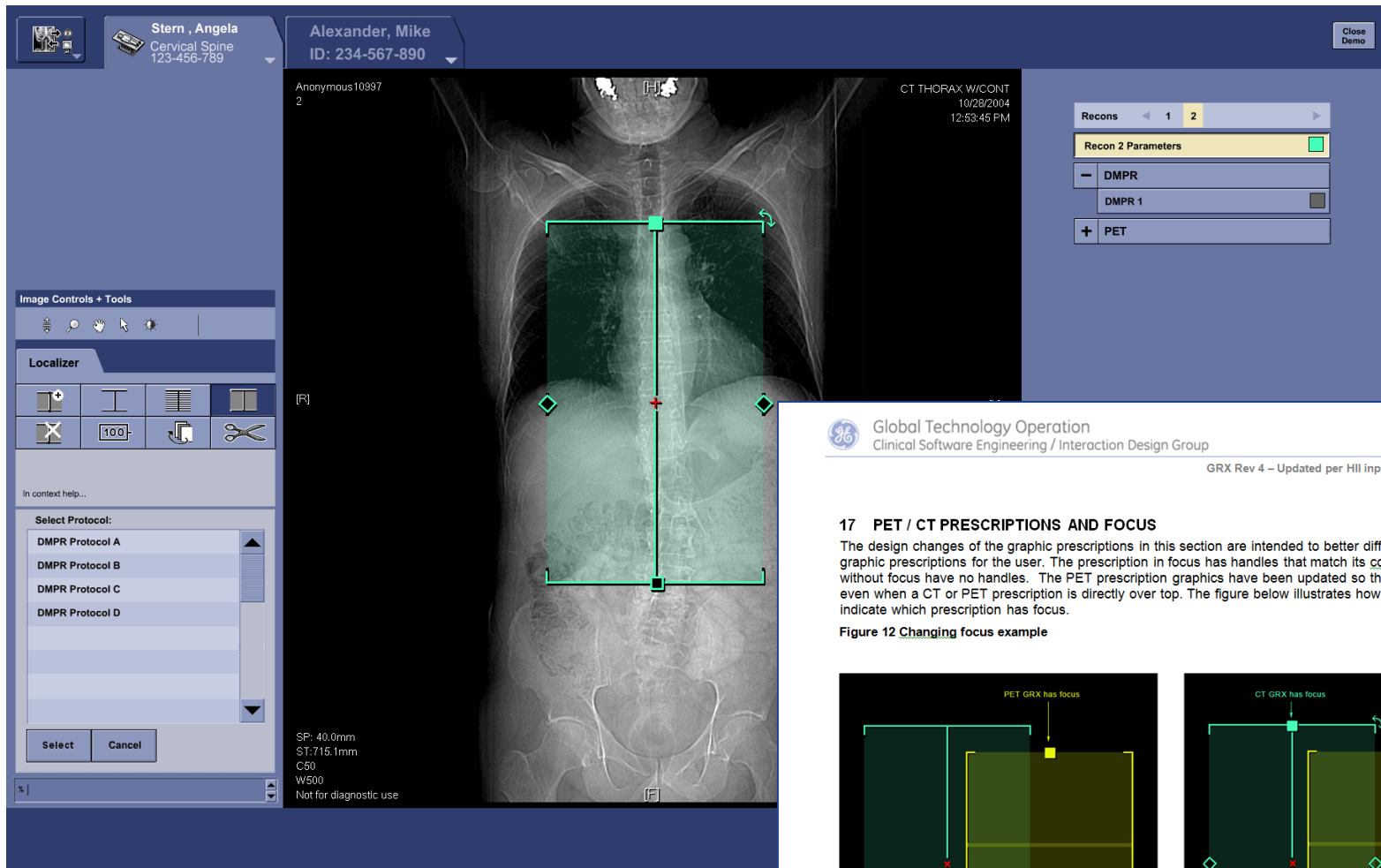


Figure 4: Examples of High Level Access menus and Application Navigation



Req. 4276: The High Level Access area shall be available to the user at all times.



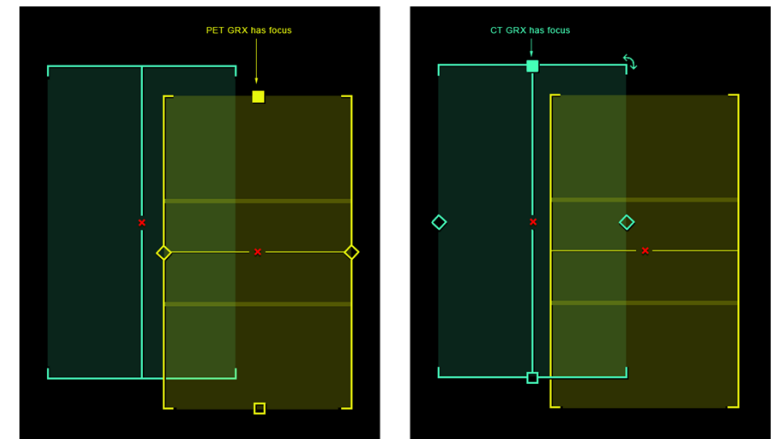
Global Technology Operation  
Clinical Software Engineering / Interaction Design Group

GRX Rev 4 – Updated per HII input – 11.22.06

## 17 PET / CT PRESCRIPTIONS AND FOCUS

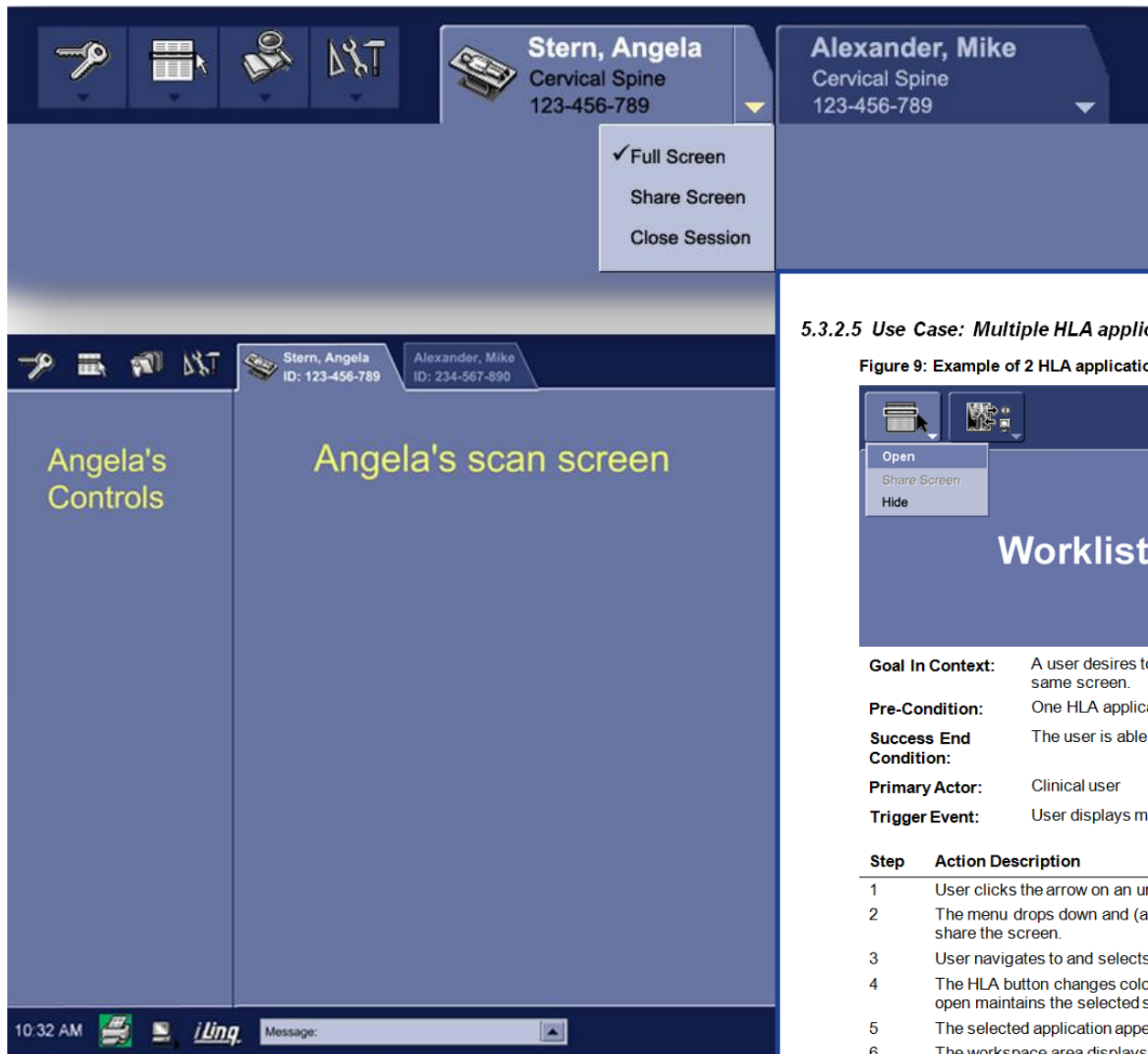
The design changes of the graphic prescriptions in this section are intended to better differentiate the graphic prescriptions for the user. The prescription in focus has handles that match its color, prescriptions without focus have no handles. The PET prescription graphics have been updated so that it is visible even when a CT or PET prescription is directly over top. The figure below illustrates how the system will indicate which prescription has focus.

Figure 12 Changing focus example



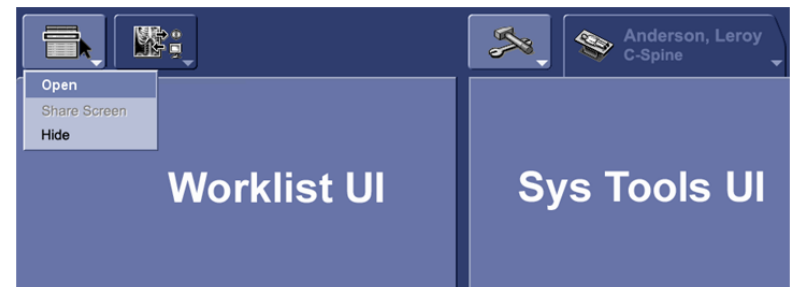
Common applications – Graphic RX - Flash proto and testing – GEHC





### 5.3.2.5 Use Case: Multiple HLA applications sharing the screen

Figure 9: Example of 2 HLA applications open simultaneously



- Goal In Context:** A user desires to view multiple HLA applications simultaneously on the same screen.
- Pre-Condition:** One HLA application is already open
- Success End Condition:** The user is able to display more than 1 HLA application at a time.
- Primary Actor:** Clinical user
- Trigger Event:** User displays multiple HLA applications through drop-down menu.

Step	Action Description
1	User clicks the arrow on an unselected HLA button to access a drop-down menu.
2	The menu drops down and (at least) indicates that the user can open the application or share the screen.
3	User navigates to and selects "share screen".
4	The HLA button changes color to indicate selected state while the first open area stays open maintains the selected state.
5	The selected application appears in the workspace area.
6	The workspace area displays all applications side by side (vertical share). Shared" state is changed by: <ul style="list-style-type: none"> <li>▪ User selecting "Open from one of the HLA button menus</li> <li>▪ User hiding an application</li> </ul>

Sort by: Name Last: First: Last Refreshed Time: 05 Oct, 11:50:08 Refresh Details

Caution	Name	Date	Patient ID	Accession	Modality	Ref. Physician	Description	Arrival
	Anil,Madugulla	26-Aug-2005	56502056	23131931	CT		RequestedProcedur...	
Added	Bickel,Betty	14-Jun-1998	320-57-9933	6867-5765	CT	SCULLY	Chest Abd Pelvis	
Added	HAGAN,JANINE	14-Jun-1998	475-626-015	0529-1521	CT	Mantone,James	KNEE-HELICAL	
Added	HUTTO,TONY	14-Jun-1998	047-556-497	1864-8479	CT	Jimmy,Cagney	SELLA SUPINE	
Added	Johnson,Brad	14-Jun-1998	458-37-2036	6867-5765	CT	Scully,Agent	Head Stroke	
	Kammukutty,Yahya	26-Aug-2005	35112336	33629412	CT		RequestedProcedur...	
Added	LARSON,MILLER	14-Jun-1998	456-622-338	2736-1704	CT	DR.HONEYAGER	CARDIAC	
	Patient,Name	26-Aug-2005	02595800	31899523	OT		RequestedProcedur...	
	Patient,Name	26-Aug-2005	87931379	68590404	OT		RequestedProcedur...	
Added	Stern,Angela	14-Jun-1998	236-99-1822	0529-1521	CT	MANTONE	KNEE-HELICAL	
Added	TAYLOR,RAMESH	14-Jun-1998	151-972-785	2208-8191	CT	Joe,Wills	SHOULDER	
Added	WELLS,JIMMY	14-Jun-1998	059-856-677	2668-5823	CT	John,Doe	ROUTINE HEAD	
		26-Aug-2005	16196942	62641431	CT		RequestedProcedur...	
	Ashish,Prajapati	26-Aug-2005	24983595	80199096	CT		RequestedProcedur...	
	Patient,Name	26-Aug-2005	49566047	48428783	OT		RequestedProcedur...	
	Patient,Name	26-Aug-2005	14851983	05345263	OT		RequestedProcedur...	
	Patient,Name	26-Aug-2005	96222679	25980766	OT		RequestedProcedur...	
	Rama,Ravi	26-Aug-2005	31379508	39255988	CT		RequestedProcedur...	

Patient: Name: Bickel Betty Ref. Physician: SCULLY

Exam: Other Information (Verify with Patient): Allergies: Penicillin Pre-Med: No Entry Pregnancy Status: Not Pregnant

204 202 206

210 208 302

SORT BY NAME LAST: FIRST: DETAILS REFRESH

CAUTION	DATE	NAME	ID	ACCESSION	REF. PHYS.	MODALITY	DESCRIPTION	ARRIVAL
210	1/12/2005	ANDERS, THOMAS	123-34-4567	123456789	SMITH, JOHN	XR	WRIST 4 VIEW	SCHEDULED
	1/12/2005	BERNARD, ALAN	234-45-6789	222222222	JONES, FRED	XR	C/TH SPINE	ARRIVED
208	1/12/2005	CAPP, JOSEPHINE	345-56-7890	321321321	GOODE, LISA	XR	C/TH SPINE	SCHEDULED

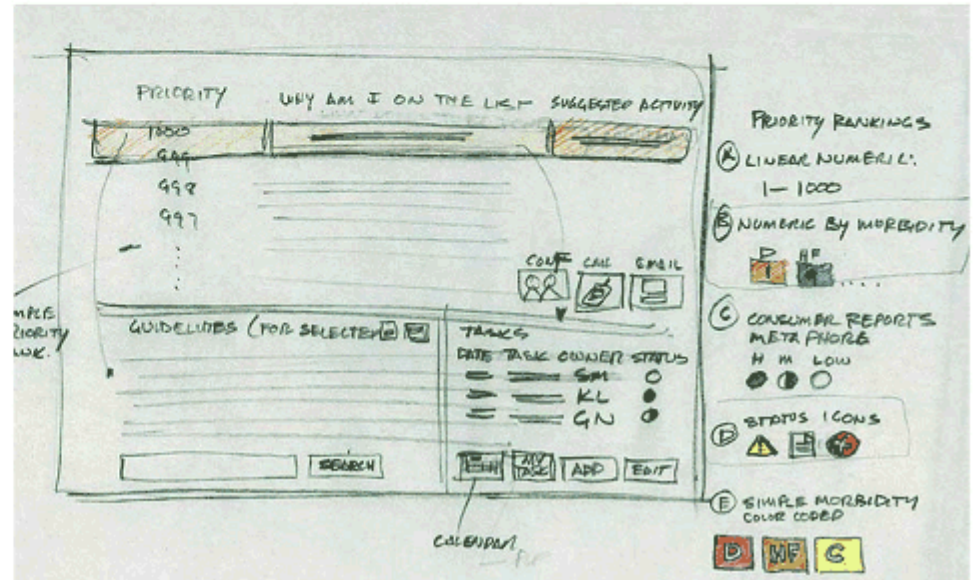
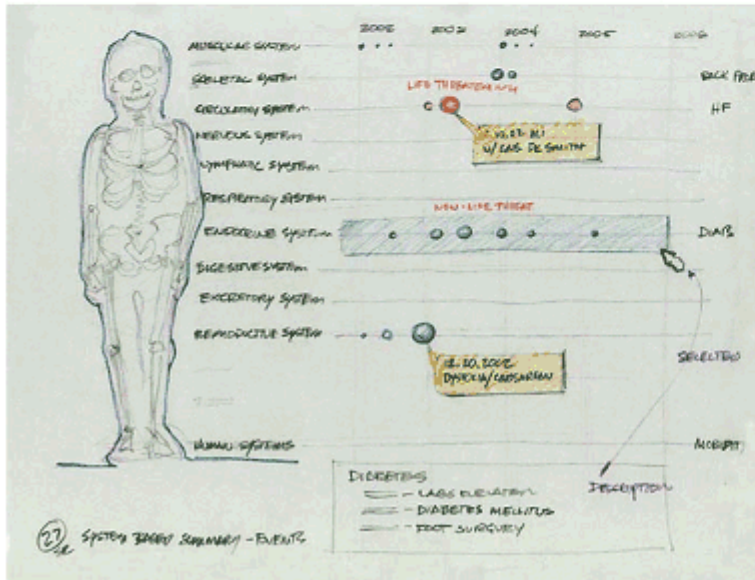
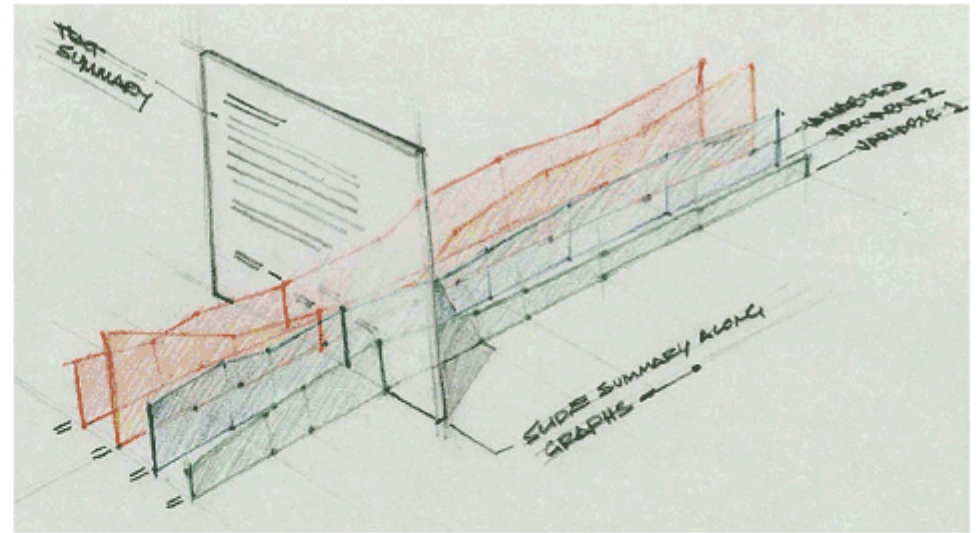
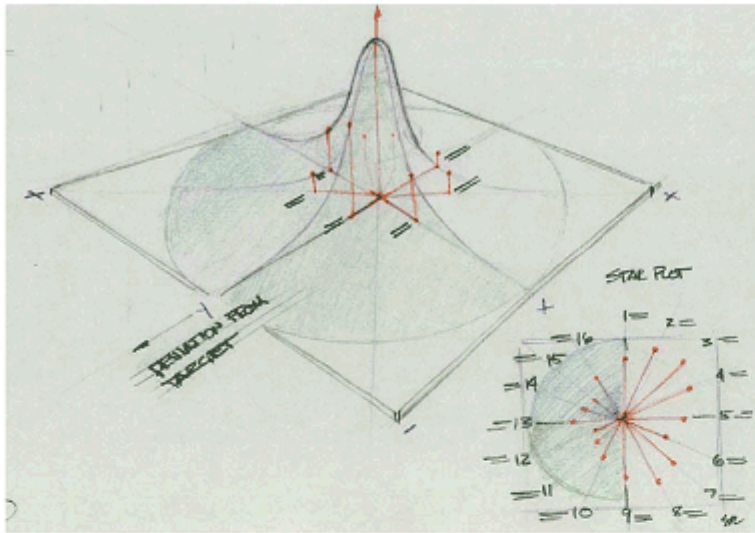
PATIENT NAME: ANDERS, THOMAS PAT. ID: 123-34-4567 DATE: 01/12/2005 ARRIVAL: SCHEDULED SEX: M DOB: 04/03/1988 \* REQUIRED INFORMATION

EXAM REFERRING PHYSICIAN: SMITH, JOHN ACCESSION: 123456789 MODALITY: XR DESCRIPTION: WRIST 4 VIEW PROCEDURE ID: 1002 STEP 1: XXXXXX PROTOCOL: XXXXXX

OTHER INFORMATION 304 ALLERGIES: SHELLFISH PRE-MEDS: VALIUM - 5mg ADDITIONAL TESTING: MR (10:00AM) PREGNANCY STATUS: NA PATIENT INFORMATION The patient has had one allergic episode that he thinks was related to eating shellfish in 2000. At that time, he was treated in the ER with an injection of Epinephrine. Since that time, he has abstained from eating all shellfish.

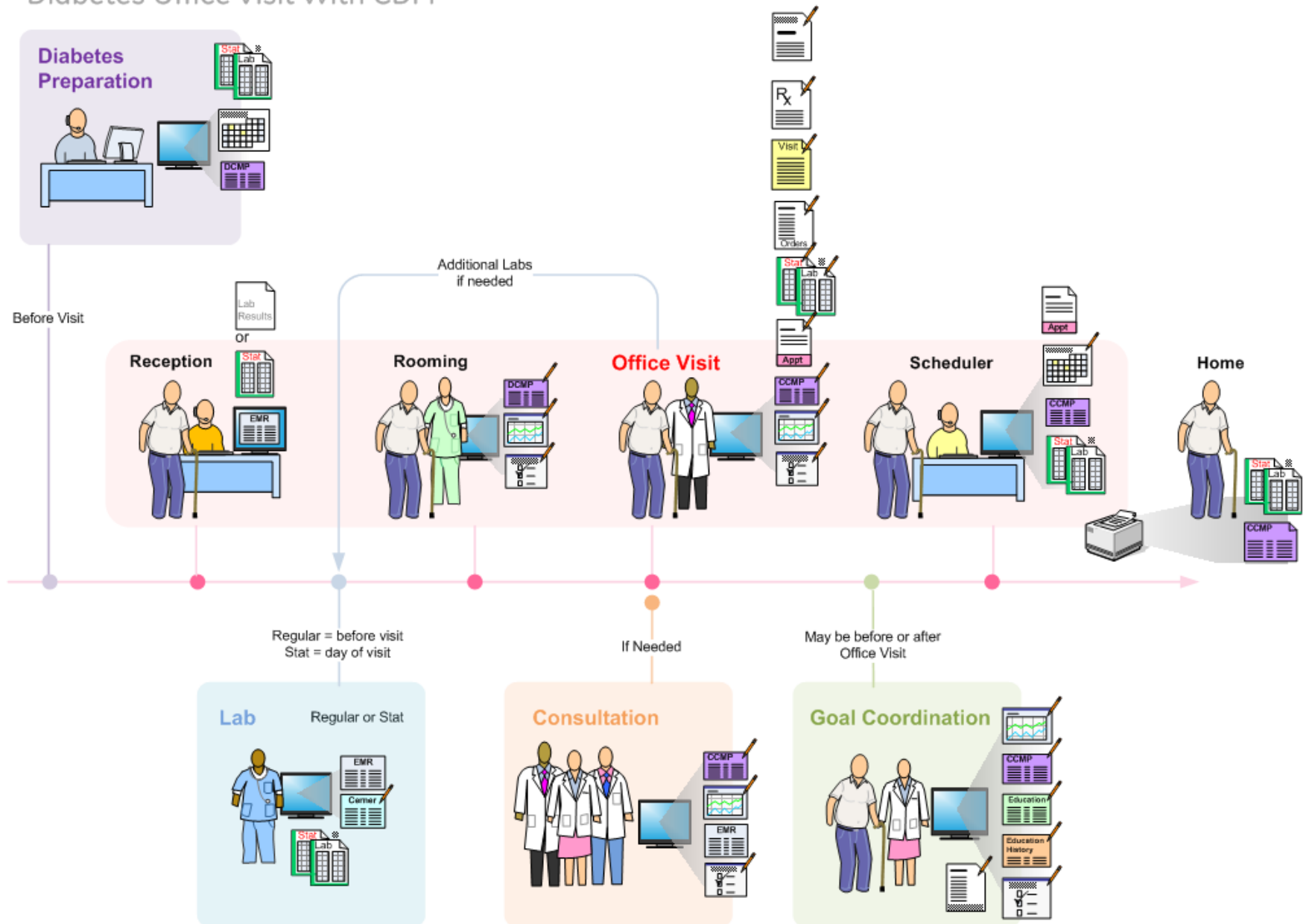
BYPASS WORKLIST... RIS SEARCH RIS... START EXAM





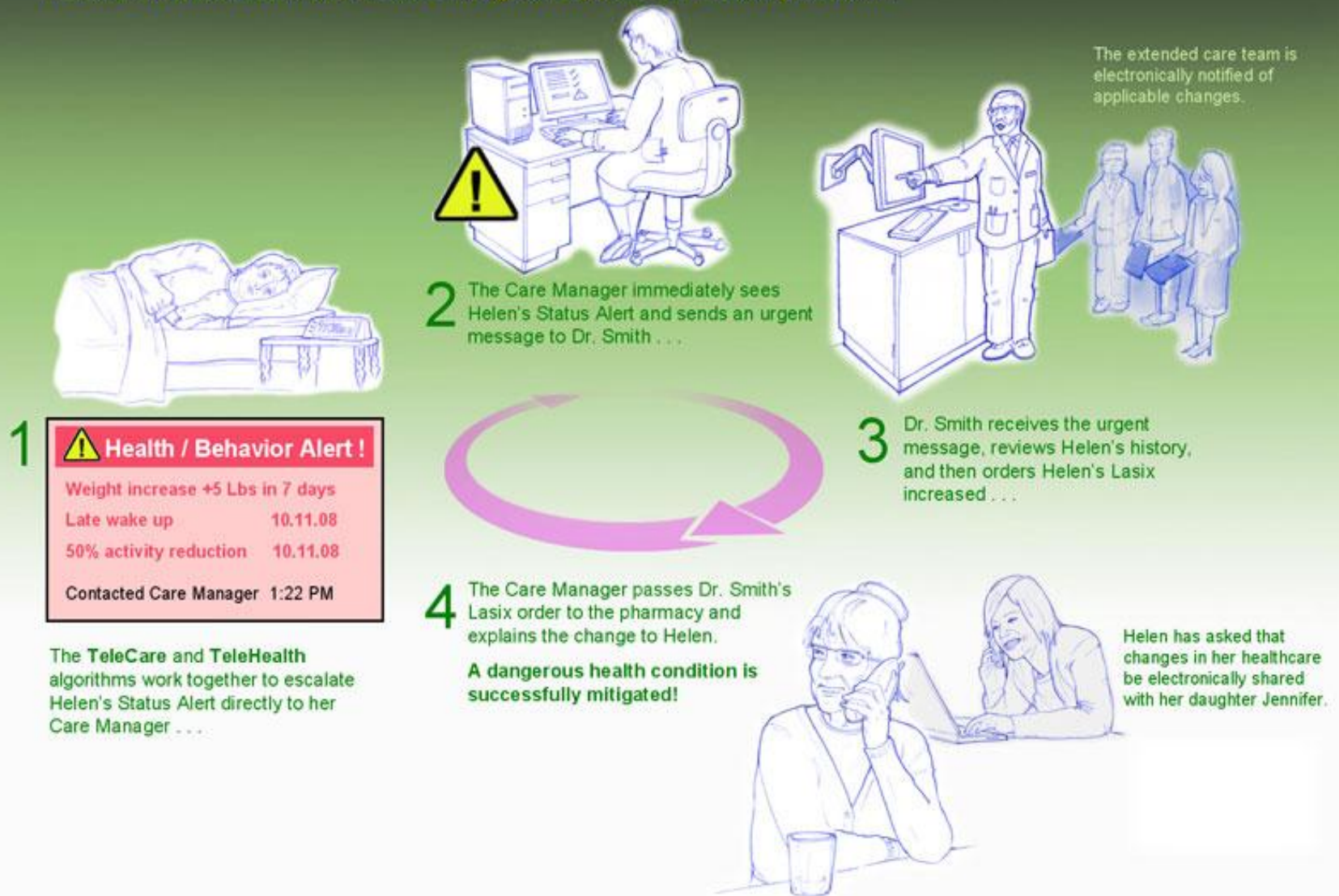
Chronic Disease Management -Brainstorming Sketches - GEHC

# Diabetes Office Visit With CDM





## Health and Behavior Alert: Helen's weight is up, and her activity is down!



Automated monitoring Health and Behavior – Protecting Patients

dr long.mpr - Morae Manager

File Edit Create Search Play View Help

Analyze - Project

Analyze

Recording - Dr Long

0: Documents and Settings\1190408\PE\testproj\dr\_long.mpr - Microsoft Internet Explorer

Search Time: [Dropdown] [Filter] [Type] [Description] [Box] [Location] [City]

James, Sarah D. 52 F  
DOB: 01/15/1965  
SSN: 0115-44-4444  
Address: 1234 Main St, Anytown, IL 60001

Tasks

Task	Date	Description	Action Taken	Date	Done
CTM	01/15/07	Consult 1 with patient doctor re: new symptoms	Accepted	01/15/07	RM Devin Light
Ref	01/15/07	Referral to specialist	Notified	01/15/07	Patient
Ref	01/15/07	Referral to specialist	Notified	01/15/07	PCP: Robert F. Davis

0:08:50.52 / 0:37:54.57

Search Results

Modify Search... Searching for: Window/Dialog Events, Mouse Clicks, User/View Chat [all applications]

Search profile Custom search

Entire recording

Dr Long

Total Events: 132 Selected Events: 1 Selected Duration: Not applicable

Usability Testing - Chronic Disease Management - Morae Software - Alliance of Chicago - GEHC



CDM Console - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Diabetes Program Goals

Show Patients For: Thomas, David

Name	HT	CAD	Next Contact	Status	A1c	LDL	BP-S	BP-D	ASA	Tobacco	Kidney Test	Eye Ex	PCP
Baker, James	HT	CAD	03/25/2008 08:15 AM	■	11.5	145	145 / 95		Yes	Yes	300	02/20/05	Lind, Jenny
Henderson, Steve	HT	CAD	03/25/2008 08:45 AM	■	10.5	140	144 / 95		Yes	Yes	400	12/20/05	Lind, Jenny
Ankerberg, Thomas	HT	CAD	03/25/2008 09:00 AM	■	10.5	140	145 / 90		No	No	20	06/02/06	Edwards, Timothy
Davis, Gretchen	HT	CAD	03/25/2008 02:15 PM	■	10.0	120	140 / 90		Yes	Yes	20	02/10/07	Lind, Jenny
Paulson, Maryann	HT	CAD	03/25/2008 10:30 AM	■	9.5	120	135 / 95		Yes	Yes	350	02/02/05	Master, Babs
Simpson, Michelle		CAD	03/25/2008 10:15 AM	■	9.5	135	120 / 79		No	No	200	12/02/06	Ivan, Paul
Tate, Elroy			03/25/2008 10:45 AM	■	9.5	125	120 / 78		No	Yes	100	10/15/06	Cantor, Samuel
Smith, Bob			03/25/2008 11:00 AM	■	9.0	120	120 / 80		No	No		02/09/06	Lind, Jenny
Baskerville, Steve	HT		03/25/2008 09:15 AM	■	9.0	120	140 / 79		Yes	No		03/02/07	Davis, Spanky
Smith, Bob	HT	CAD	03/25/2008 08:30 AM	■	8.0	120	120 / 95		Yes	Yes		01/10/08	Master, Babs
Byron, Betty		CAD	03/25/2008 10:15 AM	■	6.5	120	120 / 80		No	Yes		05/13/07	Cantor, Samuel
Capton, Jenny			03/25/2008 03:45 PM	■	7.0	130	120 / 80		Yes	Yes	29	10/15/06	Davis, Spanky
Smith, Bob	HT		03/25/2008 09:00 AM	■	6.5	95	135 / 80		No	No	30	08/10/06	Ivan, Paul
Cassen, Kelly	HT	CAD	03/25/2008 09:15 AM	■	7.0	95	130 / 90		Yes	No		02/12/05	Lind, Jenny
Danger, Mark	HT	CAD	03/25/2008 04:30 PM	■	6.5	94	129 / 90		No	Yes	320	10/23/05	Edwards, Timothy
Edwards, Marcus	HT	CAD	03/25/2008 03:15 PM	■	6.5	120	130 / 85		No	No		09/30/06	Master, Babs
Helding, Thomas			03/25/2008 08:45 AM	■	6.7	94	120 / 75		Yes	No		10/20/07	Davis, Spanky
Gander, Spengle			03/25/2008 04:15 PM	■	6.9	93	120 / 75		Yes	Yes		12/10/07	Lind, Jenny
Highlander, Xen			03/25/2008 12:30 PM	■	6.6	110	115 / 75		No	Yes	35	04/10/07	Davis, Spanky
Jasper, Stephen		CAD	03/25/2008 03:30 PM	■	6.6	91	115 / 70		Yes	No	35	05/30/07	Edwards, Timothy
Middleton, Jeff		CAD	03/25/2008 08:15 AM	■	6.6	105	115 / 70		No	Yes	300	02/12/05	Ivan, Paul
Harrison, Gabby			03/25/2008 04:45 PM	■	6.6	90	110 / 70		No	No	317	10/23/05	Lind, Jenny
Boatwright, Dave			03/25/2008 10:00 AM	■	6.6	90	126 / 70		Yes	No	25	09/30/07	Master, Babs
Savage, Bert		CAD	03/25/2008 02:00 PM	■	6.6	85	122 / 70		Yes	Yes	30	10/20/07	Edwards, Timothy
Davis, Ernie			03/25/2008 09:15 AM	■	6.5	80	120 / 70		Yes	Yes	35	12/10/07	Ivan, Paul
Simpson, David		CAD	03/25/2008 11:30 AM	■	6.5	80	115 / 70		Yes	Yes	20	04/10/07	Edwards, Timothy
Percentage of Patients on Goal					53%	46%	50%	46%	46%	50%	53%	42%	

Current User: Thomas, David

GE Care Management System - For Clinical Study Only

Start CDM Console Centricity EMR

1:29 PM

EMR

File Edit View Favorites Tools Help

Back

Search

Favorites

Links

Worklist
Program Goals
Reports
System Tools

Search

Current User: J. Smith
Log Off

Robinson, Loran

ID 104-2009

DOB: 10/23/1959 Age: 49

Home: 414-351-5599

PCP: John S Blanca

Insur: GHC Gold Grp: 876054

Allergies:

Aspirin, Penicillin, Sulfa Drugs

Summary

Tasks

Goals

Self Management

Task Type	Issue	Contact
<input type="checkbox"/> Pre-Vist	Current A1c	05-OCT-2008
<input type="checkbox"/> Pre-Vist	SMBG Diary	07-OCT-2008
<input type="checkbox"/> Pre-Vist	Foot Order	09-NOV-2008
<input type="checkbox"/> Visit	Eye Order	09-NOV-2008
<input type="checkbox"/> Visit	Insulin Educ.	09-NOV-2008
<input type="checkbox"/> Visit	Diet Check	12-DEC-2008
<input type="checkbox"/> In-Between	Life Style Educ.	12-DEC-2008
<input type="checkbox"/> In-Between	Appointments	12-DEC-2008
<input type="checkbox"/> In-Between	Diet	

Show All

Measure

Graphic Trends

Recent Personal Program

A1c

8.5 (+1.5)

03-10-08

-

7.0

LDL

80 (-20)

12-30-07

<90

<100

Syst. BP

130 (+10)

03-10-08

130

120

Diast. BP

70 (-10)

03-10-08

90

80

Urine Albu.

20 (-10)

03-10-08

-

<30

BMI

24.5 (+3)

03-10-08

-

25

APR 2007

MAY 2007

JUN 2007

JUL 2007

AUG 2007

SEP 2007

OCT 2007

NOV 2007

DEC 2007

JAN 2008

FEB 2008

MAR 2008

APR 2008

1 Smoking

Wisi nostrud eu his. At magna convenire pertinacia quo, vis nulla inciderint in.

2 Exercise

Wisi nostrud eu his. At magna convenire pertinacia quo, vis nulla inciderint in.

3 Diet

< 2500 calories per day

- Exchange system

< 2000mg sodium

< 50% calories from fat

< 50 % calories from cholesterol

4 Care Plan

Wisi nostrud eu his. At magna convenire pertinacia quo, vis nulla inciderint in. Inermis iracundia ea eam, sit quis prompta persecuti in. Vim te

5 SMBG

Wisi nostrud eu his. At magna convenire pertinacia quo, vis nulla incider

Health Summary

Problems

Medications

Labs

Timeline

Problems:

HYPERTENSIVE RENAL DISESE, MALIGNANT

MYOCARDIAL INFARCTION SEQUELAE

ANGINA UNSTABLE

DYSRHYTHMIA, CARDIAC

ASTHMA, EXTRINSIC

BRONCHITIS, OBSTRUCTIVE CHRONIC WEXACERB

DEPRESSION

OSTEOARTHRITIS

Medications:

MICRO-K 10 CAP 10 MEQ CR (POTASIUM CHLORIDE)

1po qd

NITROSTAT SUB 0.3MG (NITROGLYCERIN)

1 sl q 5 for max of 3 in 15 min

DILTIAZEM HCL TABS 60 MG (DILTIAZEM HCL)

1 in am, 1 in pm

COUMADIN TAB 5 MG (WARFARIN SODIUM)

1 po qd

FUROSEMIDE TABS 20 MG (FUROSEMIDE)

1 po qd

PRINIVIL TAB 20 MG (LISINOPRIL)

1 po qd

PROVENTIL AERS 90 MCG/ACT (ALBUTEROL)

2 puffs po qid prn

AZMACORT AER 100 MCG (TRIAMCINOLONE ACETONIDE(INHAL.))

4 puffs po bid

Last Lab:

Metabolic Panel (ML-03CHEM) 06-APR-08

BG RANDOM

110 mg/dl

70-125

BUN

16 mg/dl

7-25

Chloride

106 mmol/l

96-109

Cholesterol

190 mg/dl

130-200

CO2

28 mmol/l

23-29

CREATININE

1.0 mg/dl

0.6-1.2

Potassium

3.6 mmol/l

3.5-5.3

Chem 12 30-MAR-08

Coag 10-FEB-08

A1c 01-JAN-08

Metabolic Panel (ML-03CHEM) 10-OCT-08

http://www.eclinicalworks.com/eclinicalworks8/features-demandASP.html

Internet

File Edit Tasks Views Workspaces Help

Quick Find: Whiteboard Dashboard Inbox Scheduling Patient Lists My Team Online Logged in as Dr. Eric Rescue

**Alderwood Family Care**  
Serving the community since 1958

Search

**Hot List**

- arker, Thomas
- Green, Mat
- SMITH, Bob**
- Gallager, Andrew
- KAPP, Peter
- Francis, Joseph F
- EINSTEIN, Albert
- WORTH, Barbara
- DILLON, Delores
- PETERSON, Sarah
- HUGHES, Bill
- LAMPER, Michael
- GONZALEZ, Maria
- PITT, George
- BIRDSONG, George
- CRAMDON, Michael
- NAHLEN, Robert
- PERKINS, Stephen
- BOXER, Steve
- FOSTER, Jeanette
- HARDING, Richard
- SHUTTLE, Steve
- LESLEY, Lisa
- WOOD, Emily
- FARNSWORTH, Steve
- SANCHEZ, Juan
- TRENTON, Michael
- SEVERS, Jay
- LAMBERT, Mark

**SMITH, Bob** ♂ DOB: 23 Oct 1940 Age: 67 01008150

History Chart Order Note Charges Diag. Images Snapshot Chronic Disease

**Problem List**

Influenza	01 Jan 08	Rash	02 Oct 07
Ear Infection	12 Dec 07	Back Pain	29 Sept 07
Bloody stool	10 Nov 07	Dizziness	01 Aug 07
Left wrist sprain	01 Oct 07	Abdominal Pain	20 June 07

**Recent Vitals**

BMI	25	01 Jan 08
BP	120/80	01 Jan 08
Pulse	98	01 Jan 08
Respiration	22	01 Jan 08
SMBG	200 mg	01 Jan 08

**Medications**

Key diabetes - prescribed:

10-20-05	Metformin	500mg	Daily
06-05-04	Lantus Insulin	20mg	before meals
06-05-04	Lipitor	10mg	Daily
04-03-04	Atenonal	15mg	Daily

Other - prescribed:

10-10-07	Hydrocodone	10mg	As needed
10-10-07	Diazepam	10mg	At bedtime
06-15-03	Nexium	20mg	Daily
06-15-03	Viagra	25mg	As needed
04-10-02	Aspirin	81mg	Daily

Self medication:

10-20-07	Multivitamin		Daily
10-20-07	Ginkgo Biloba	250mg	Daily
10-20-07	Catuaba Bark	500mg	Daily

**Patient Reported Information**

Allergic reaction	01-15-08
Interm. SMBG	12-15-07
Vacation schedule	12-10-07
Death of spouse	02-20-07
Dizziness	01-15-07

**Recent Labs**

Lab: 12-15-07	Chem 12	Abnormal	Na	mEgg/L	148	CK-MB		3
12-30-07	FBG	Normal	K	mEgg/L	4.8	Total Chol	mg/dL	279
09-13-07	CBG	Normal	Ca	mEgg/L	11	Trig	mg/dL	203
06-10-07	A1c	Abnormal	Mg	mEgg/L	2.5	LDL	mEgg/L	71
03-25-07	Urine	Normal	Phos	mEgg/L	2.6			
			CK	u/L	342			

**Program Goals**

Measure	Freq.	Goal	Most recent	Data (△)
BMI	3 mths	20	01-10-08	24 (+2)
BP	3 mths	120/80	01-10-08	130/70 (+5/+2)
A1c	3 mths	8.0	12-10-07	9.5 (+.5)
LDL	6 mths	<100	10-04-07	80 (-10)
Micro	yearly	<70	12-04-06	20 (-10)
SMBG	daily	120	02-10-08	200 (+5)

**Advisories**

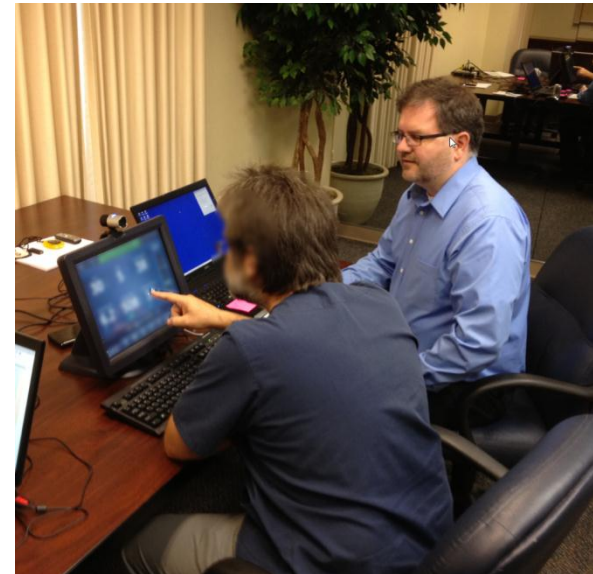
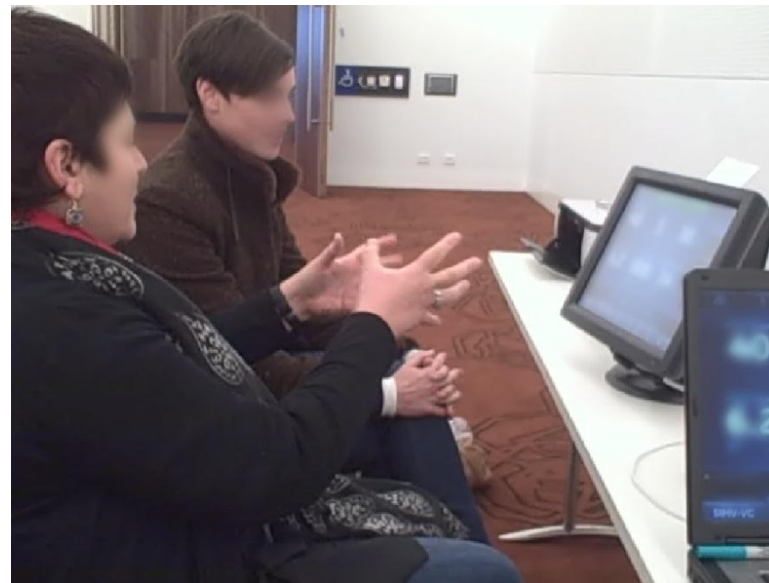
Elevated measures:  
BMI, BP, and SMBG  
[Open Chronic Program View](#)

**Family History**

Cancer:  
Ovarian: Maternal grandmother  
Pancreatic: Father  
Breast: Mother  
Hypertension:  
Father, Mother, Paternal Grandfather

SMITH, Bob GREEN, Mat HAHLN, Robert

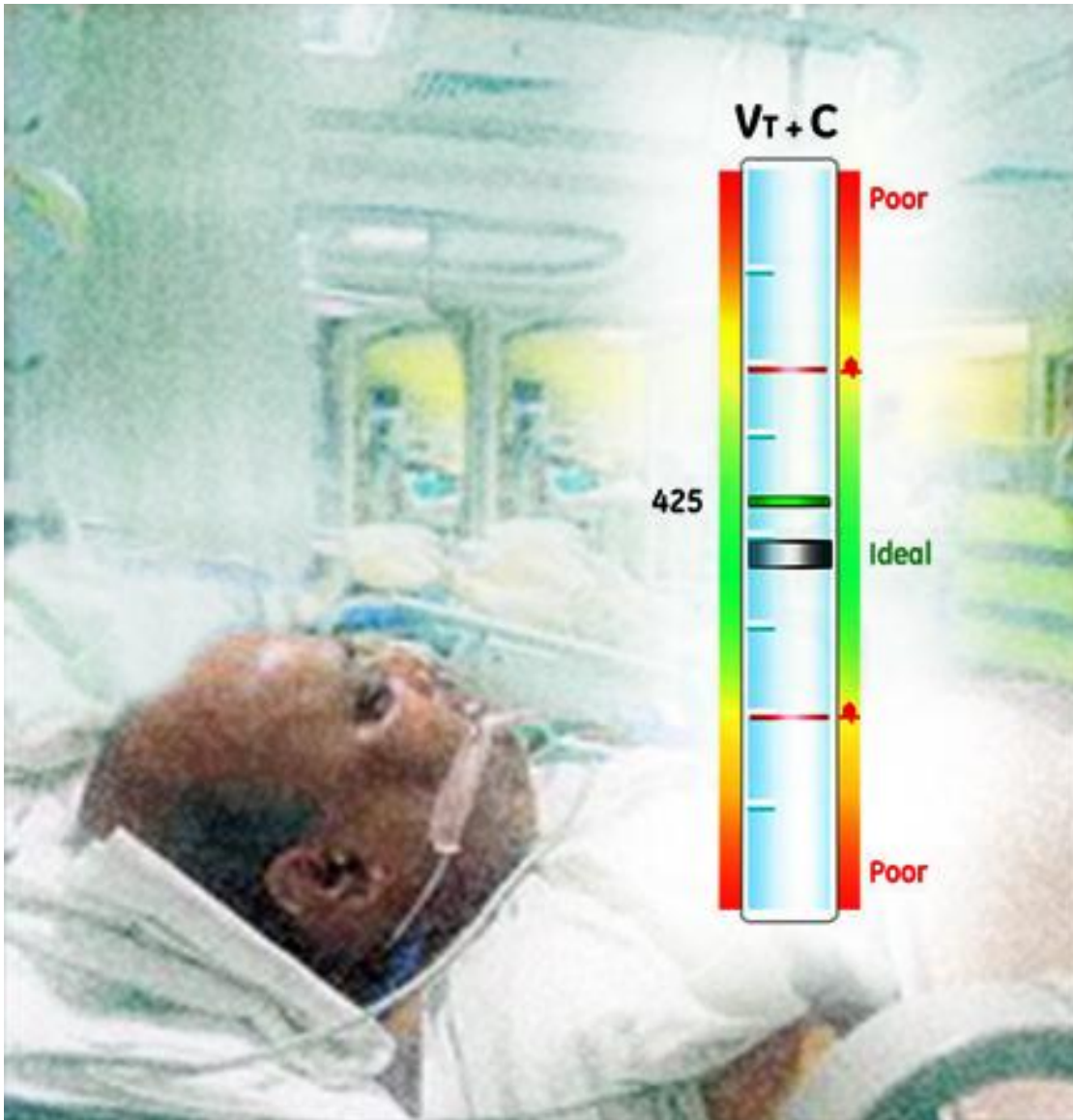




Brainstorming, Usability Facilitation, Card sort, Objective and Subjective Learnability Study - GEHC



GEHC Waukesha Usability Lab



#### Tidal Volume and Compliance Viewer

1. The black indicator moves up and down with each breath. The volume reference number (e.g. 425) and green bar are updated accordingly
2. The user adjusts the ventilator settings so that the Tidal Volume stays in the ideal Compliance range.
3. The red lines show the High and Low alarm settings



123121223  
qqeqw3234123121243223



**Description:** The user zxc02x



Description: The user successfully logs onto the system with his or her login name and a current password.  
Note: The term "login name" refers to whatever user identification the system is capable of supporting. The login name displayed is the user ID defined by the system administrator for each user of the system.  
1) The login screen appears in standard configuration. (See Error Reference source not found.)

