



TMG-CPRS?

aqua cool *

Overview of New Features in TMG-CPRS

TMG CPRS Features Overview

- Customizable Splash Screens
- Colored Tabs
- Tab Position
- Added functionality for Patient List Lookup
- Add New Patients from CPRS
- Edit Patient's Demographics
- Multi Language support
- Web tab (defined server-side)
- HTML Note Rendering
- Adding Images to Notes
- HTML Templates
- Advanced Template Features
- Powerful Patient Searching

TMG CPRS Features Overview

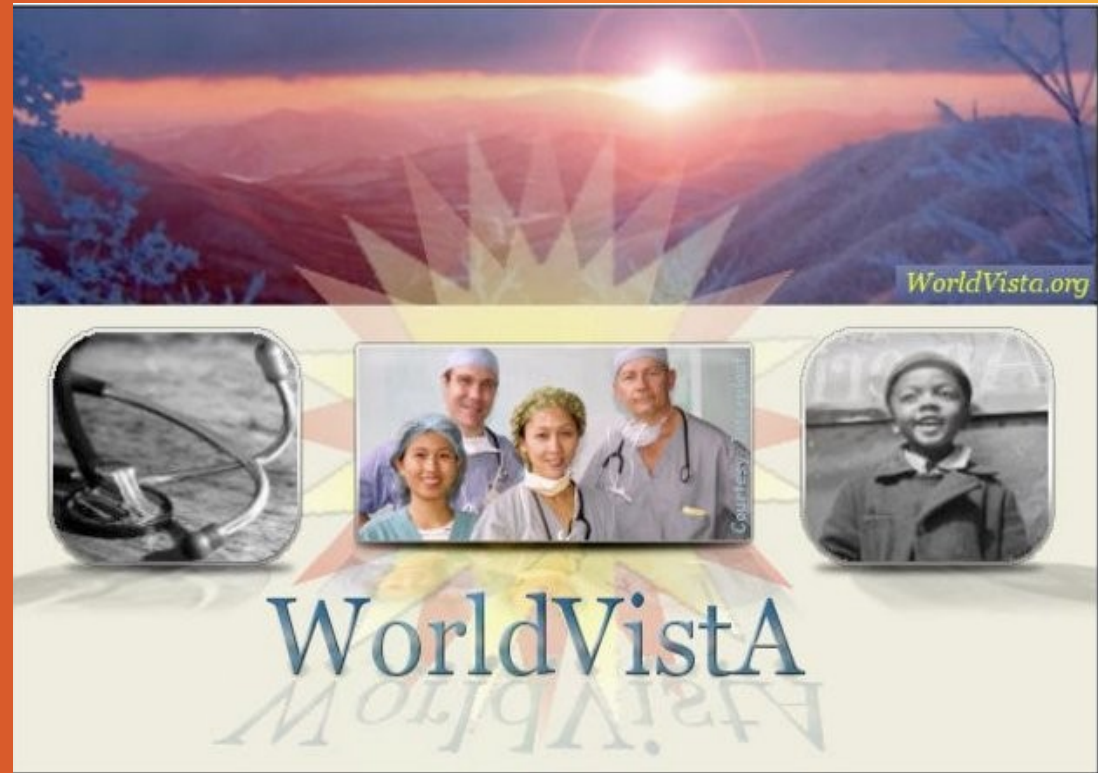
- Brief overview of features previously demonstrated
- More details on newer features

Customizable Splash Screens

Default Splash Screen -->
Can change to custom
image in 1 of two methods:

1. Add a splash.jpg image to same folder as CPRSChart.exe
2. add a command-line parameter at launch e.g.

CPRChart.exe s=vista p=9200 splash=c:\Pics\Splash.jpg



Colored Tabs

Colored Tabs Make different parts of chart easier to see.

Vista CPRS in use by: Toppenberg, Kevin S (192.168.3.99)

File Edit View Tools Help

ZZTEST, FRIEND A Visit Not Selected Primary Care Team Unassigned Flag Remote Data No Postings
123-1-1-1234 Jan 01, 1956 (54) Provider: TOPPENBERG, KEVIN S

Active Problems	Allergies / Adverse Reactions	Postings
No Problems Found.	No Allergy Assessment	No Patient Postings Found.

Active Medications	Clinical Reminders	Due Date
No Active Medications Found	Retrieving in background...	

Recent Lab Results	Vitals	Appointments/Visits/Admissions
Retrieving in background...	WT 241 lb May 23, 2008 15:57	

Cover Sheet Problems Meds Orders Notes Consults D/C Summ Labs Reports Images

Tab Positioning

Tabs can be on bottom, top, left or right



Better Patient List Lookup

- Patients can be looked up by *partial* name
- Notice the variety of names returned with partial input below
- Even middle name matched
- Other non-matches are hidden -- makes names 'pop'.

The screenshot shows a 'Patient Selection' window with a search bar containing 'Cu,M -- Culler, Marian'. Below the search bar is a list of patient names. The first name, 'Cu,M -- Culler, Marian', is highlighted in blue. Other names in the list include 'Zztest, Friend A', 'Cu,M -- Curtin, Mildred H', 'Cu,M -- Cutshall, Kelly M', 'Cu,M -- Cutshall, Mary', 'Cu,M -- Cutshaw, Edna M', 'Cu,M -- Cutshaw, Josephine M', 'Cu,M -- Cutshaw, Marvin U', 'Cu,M -- Cutshaw, Matt', and 'Cu,M -- Cutshaw, Melinda G'. On the left side of the window, there are radio buttons for 'No Default', 'Providers', 'Team/Personal', 'Specialties', 'Clinics', 'Wards', and 'All'. The 'All' option is selected. On the right side, there are labels for 'Culler', 'SSN:', 'DOB:', and 'Female'. At the bottom, there is a 'Notifications' section.

Patient Selection

Patient List

☐ No Default
☐ Providers
☐ Team/Personal
☐ Specialties

☐ Clinics
☐ Wards
☒ All

Patients (All Patients)

Cu,M -- Culler, Marian

Zztest, Friend A

Cu,M -- Culler, Marian

Cu,M -- Curtin, Mildred H

Cu,M -- Cutshall, Kelly M

Cu,M -- Cutshall, Mary

Cu,M -- Cutshaw, Edna M

Cu,M -- Cutshaw, Josephine M

Cu,M -- Cutshaw, Marvin U

Cu,M -- Cutshaw, Matt

Cu,M -- Cutshaw, Melinda G

Notifications

Better Patient List Lookup

Patients can be looked up by *date of birth*
Date can be entered in various formats, e.g.
12/4/62, or December 4, 1962

The screenshot shows a 'Patient Selection' window with a search interface. On the left, under 'Patient List', there are radio buttons for 'No Default', 'Providers', 'Team/Personal', 'Specialties', 'Clinics', 'Wards', and 'All' (which is selected). The main area, 'Patients (All Patients)', contains a list box with the following entries: '12/19 Test,James I', 'Zztest,Friend A', '12/19 Test,James I', and '12/19 Toppenberg,Kevin S'. The first entry is highlighted. To the right of the list box is a search icon and a text field containing 'Test,James I'. Below this, patient details are displayed: 'SSN: 437-', 'DOB: Oct 0', and 'Male'. At the bottom right, there are radio buttons for 'Specific "In-De"', 'None of the', 'PHONE NU', and 'DATE OF B'. A 'Save' button is partially visible. At the bottom of the window is a 'Notifications' section with a table header: 'Info', 'Patient', 'Location', 'Urgency', 'Alert Date/Time', and 'Message'.

Info	Patient	Location	Urgency	Alert Date/Time	Message
------	---------	----------	---------	-----------------	---------

Better Patient List Lookup

Patients can be looked up by *phone number*
Number could be entered in various formats:
e.g. 555-555-5555, (555)222-2222, 555 555 5555

The screenshot shows a software window titled "Patient Selection". On the left, under "Patient List", there are radio buttons for "No Default", "Providers", "Team/Personal", "Specialties", "Clinics", "Wards", and "All". The "All" option is selected. The main area, titled "Patients (All Patients)", contains a list of three patients, each with a phone number and a name. The first patient, "423 639 [redacted] Toppenberg, Kevin S", is highlighted. To the right of the list, there is a search icon and a section for patient details for "Toppenberg, Kevin S", showing "SSN:", "DOB:", and "Male". At the bottom right, there is a "Specify" section with radio buttons for "No", "PH", and "PA".

Phone Number	Name
423 639 [redacted]	Toppenberg, Kevin S
423 639 [redacted]	Toppenberg, Matthew D
423 639 [redacted]	Toppenberg, Nathan

Adding Patients



Adding New Patients from CPRS

Patients may be added directly
from CPRS
Ability can be restricted with key
TMG CPRS HIDE ADD PATIENT

Patient Selection

Patient List

- ☐ No Default
- ☐ Providers
- ☐ Team/Personnel
- ☐ Specialties
- ☐ Clinics
- ☐ Wards
- ☒ All

Patients (All Patients)

- Zztest -- Zztest, Kevin
- Toppenberg, Kevin S
- Zztest -- Zztest, Bill
- Zztest -- Zztest, Ed
- Zztest -- Zztest, Friend A
- Zztest -- Zztest, Misty
- Zztest -- Zztest, Wrong

Zztest, Kevin

SSN: 123456789
DOB: Jan 01, 2001
Male

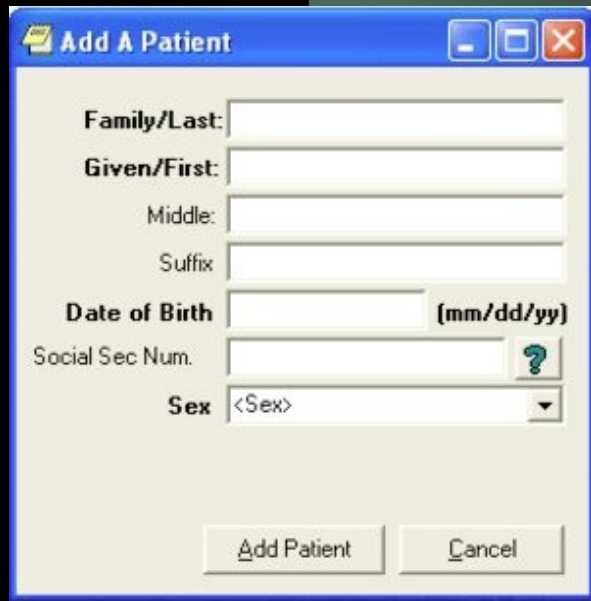
Specific "In-Depth" Lookup by

- ☒ None of the below
- ☐ PHONE NUMBER (RESIDENCE)

Add Patient **OK** **Cancel**

Adding New Patient

Adding a new patient is designed to be fast and straightforward



Add A Patient

Family/Last:

Given/First:

Middle:

Suffix:

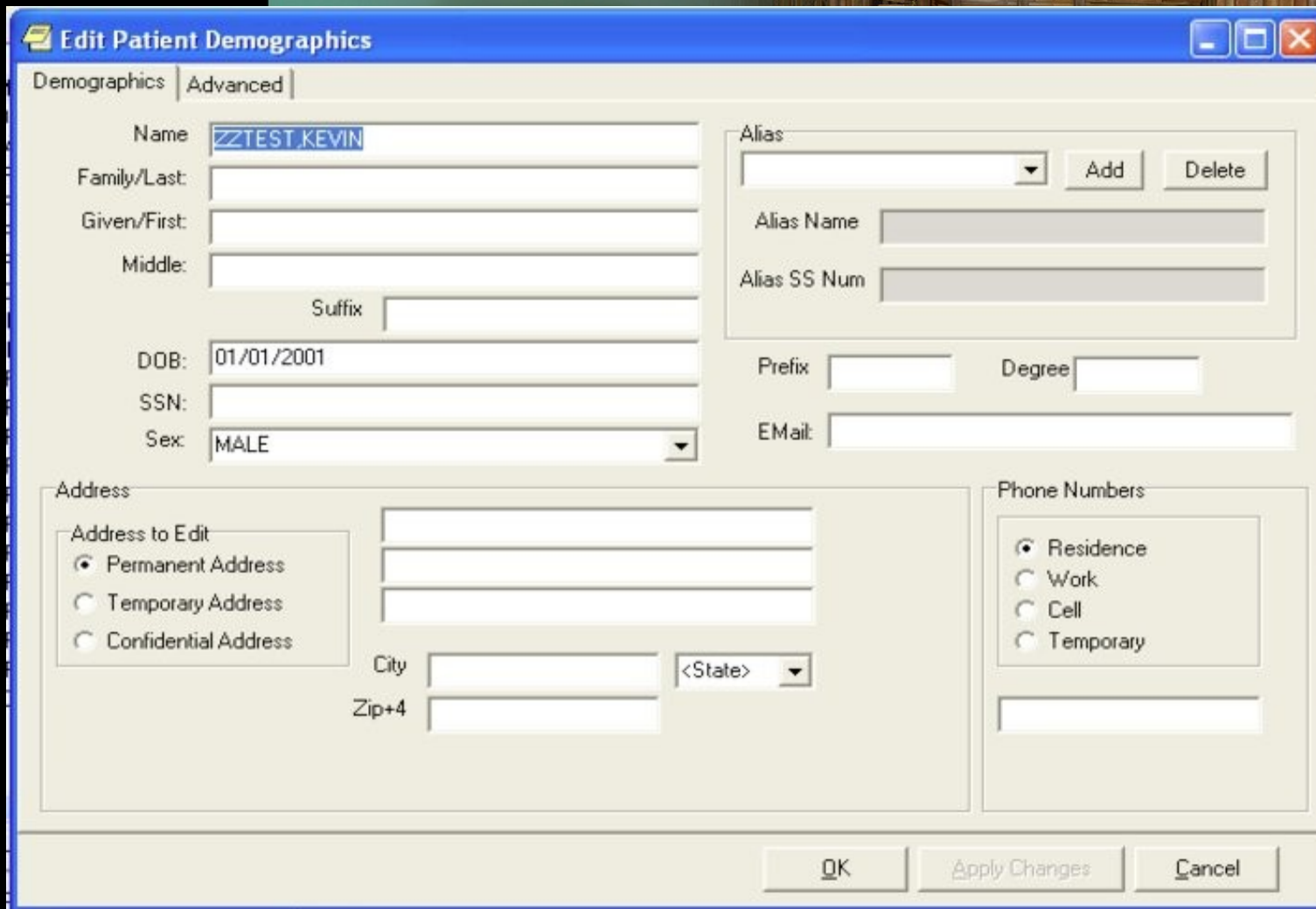
Date of Birth: (mm/dd/yy)

Social Sec Num. ?

Sex:

Editing Basic Demographics

Basic Demographics can be edited



Edit Patient Demographics

Demographics | Advanced

Name: ZZTEST,KEVIN

Family/Last:

Given/First:

Middle:

Suffix:

DOB: 01/01/2001

SSN:

Sex: MALE

Alias:

Alias Name:

Alias SS Num:

Prefix:

Degree:

E-Mail:

Address:

Address to Edit:

☒ Permanent Address

☐ Temporary Address

☐ Confidential Address

City:

Zip+4:

<State>:

Phone Numbers:

☒ Residence

☐ Work

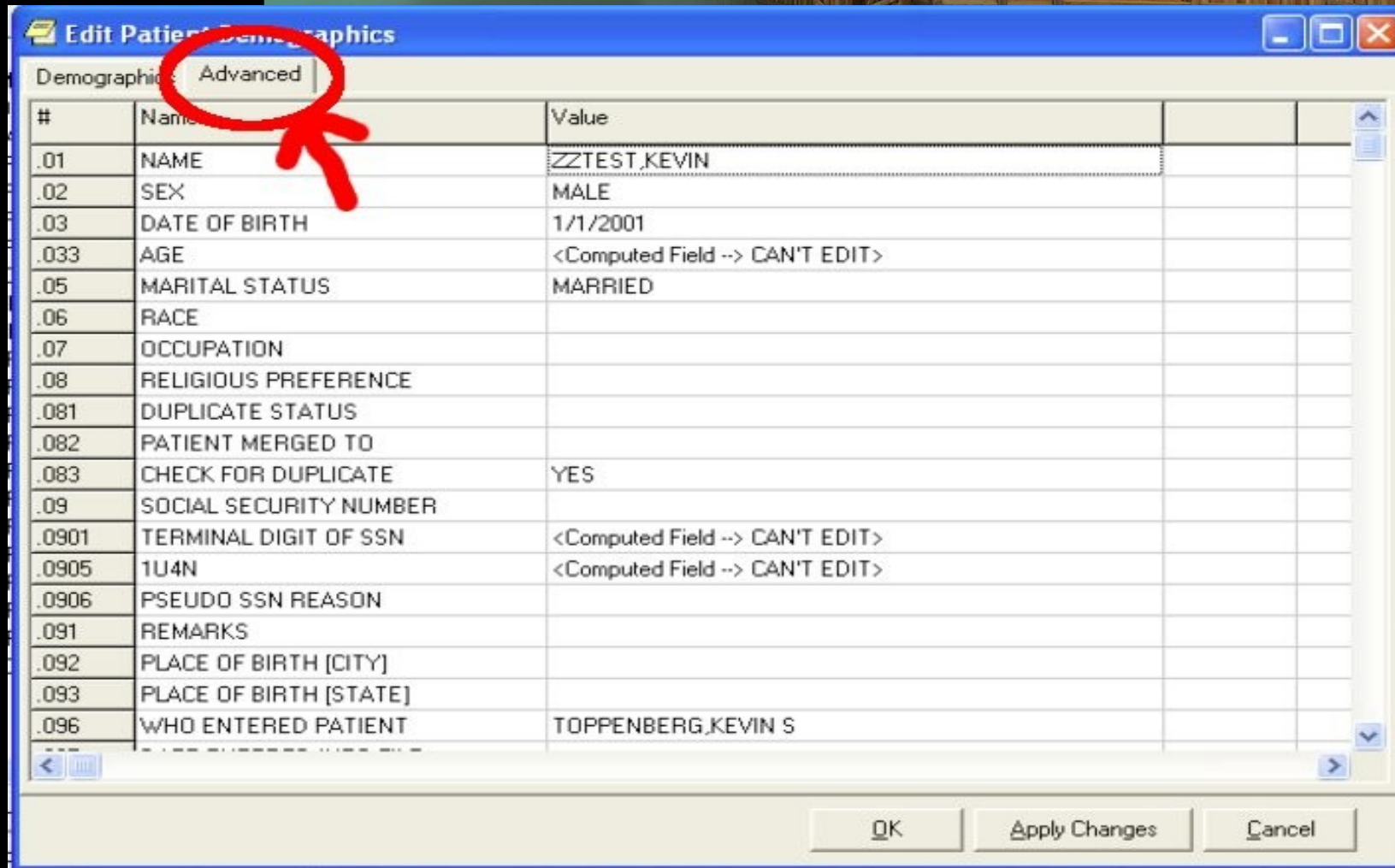
☐ Cell

☐ Temporary

OK Apply Changes Cancel

Editing Any Demographic Field

In Advanced tab, any field can be edited.



Edit Patient Demographics

Demographic **Advanced**

#	Name	Value
.01	NAME	ZZTEST,KEVIN
.02	SEX	MALE
.03	DATE OF BIRTH	1/1/2001
.033	AGE	<Computed Field --> CAN'T EDIT>
.05	MARITAL STATUS	MARRIED
.06	RACE	
.07	OCCUPATION	
.08	RELIGIOUS PREFERENCE	
.081	DUPLICATE STATUS	
.082	PATIENT MERGED TO	
.083	CHECK FOR DUPLICATE	YES
.09	SOCIAL SECURITY NUMBER	
.0901	TERMINAL DIGIT OF SSN	<Computed Field --> CAN'T EDIT>
.0905	1U4N	<Computed Field --> CAN'T EDIT>
.0906	PSEUDO SSN REASON	
.091	REMARKS	
.092	PLACE OF BIRTH [CITY]	
.093	PLACE OF BIRTH [STATE]	
.096	WHO ENTERED PATIENT	TOPPENBERG,KEVIN S

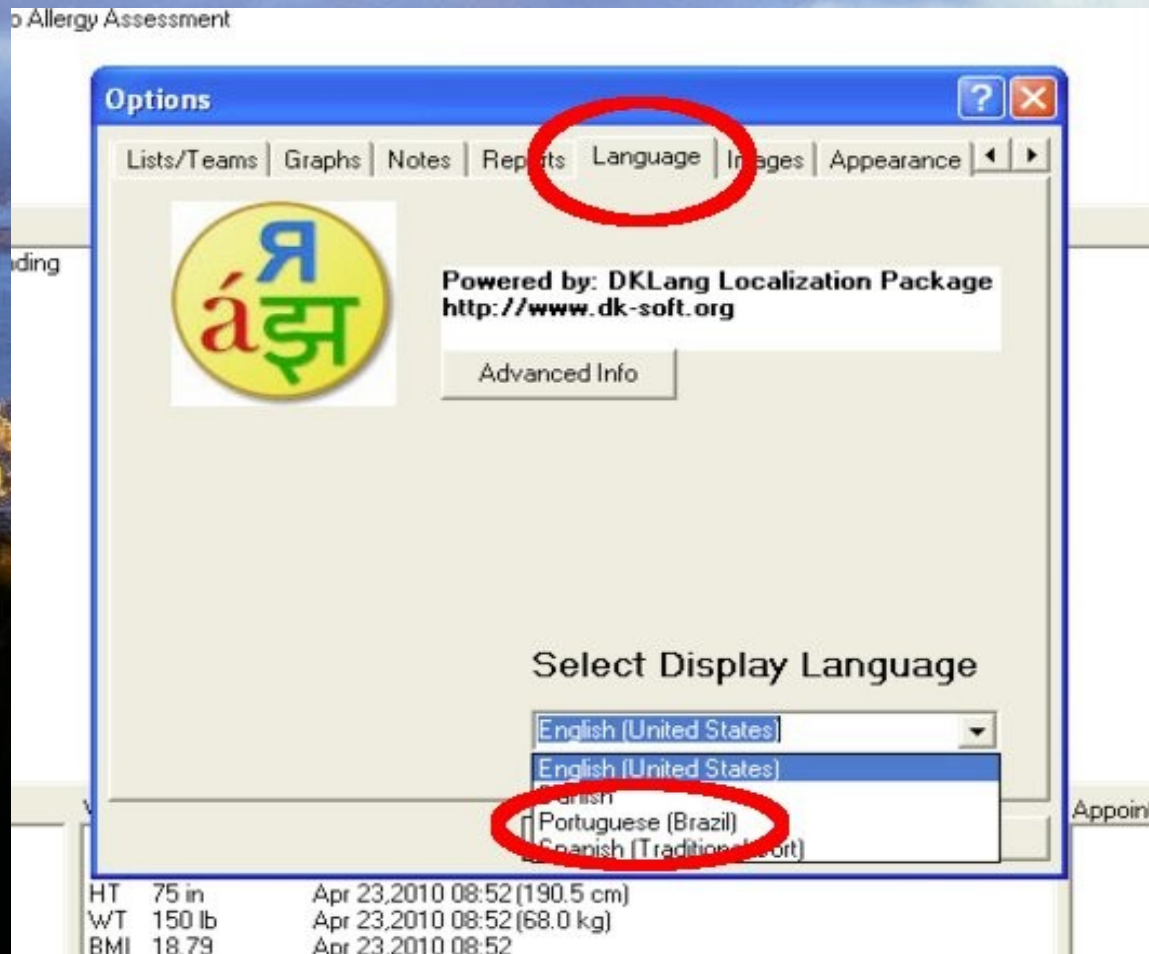
OK Apply Changes Cancel

Multilingual Support




Multilingual Support

Supports translation files that can be created after distribution
Uses DKLang localization package



Multilingual Support

Here is an example of Portuguese
Supports wide characters

 Vista CPRS em uso por: Toppenberg, Kevin S (192.168.3.99)

Arquivo Editar Visualizar Ferramentas Ajuda

ZZTEST, KEVIN 74268 Jan 01, 2001 (9)	Visite não seleccionados ? Operadora: TOPPENBERG, KEVIN S	Primary Care equipe não atribuído
--	---	-----------------------------------

Ativo Problemas No Problems Found.	Alergias / reacções adversas No Allergy Assessment
--	--

Ativo Medications Lisinopril Hctz Tab 10 Mg Pending	Clínica Lembretes Recuperando no fundo ...	data de vencimento
---	--	---------------------------

Os recentes resultados de laboratório Recuperando no fundo ...	Vitals T 97 F Apr 23, 2010 08:52 (36.1 C) BP 100/92 Apr 23, 2010 08:52 HT 75 in Apr 23, 2010 08:52 (190.5 cm) WT 150 lb Apr 23, 2010 08:52 (68.0 kg) BMI 18.79 Apr 23, 2010 08:52
--	---

Da Folha Problemas Meds Encomendas Notas Consultas D / C Summ Labs Relatórios Images



The background is a complex, abstract texture. It features a mix of vibrant colors: deep blues, bright yellows, and rich reds. The texture appears to be layered and uneven, with some areas looking like smooth, flowing liquid and others more like rough, craggy rock or splattered paint. The overall effect is dynamic and visually busy.


Web Tabs

Web Tabs -- Allows integrated Content

Vista CPRS in use by: Toppenberg, Kevin S (192.168.3.99)

File Edit View Tools Help

TEST_KILLME DON'T Visit Not Selected Primary Care Team Unassigned
427--0-1-0101P Jan 01, 2001 (9) Provider: TOPPENBERG, KEVIN S Flag Remote Data Postings A

 AAFP

LOG IN
ID Number Last Name/Pa
☐ Remember Me Log-in t

About Us News & Journals Members CME Center Clinical & Research Run

Advanced Web Search

Search by Web site section

Find results with all of the words with the exact phrase with any of the words without the words

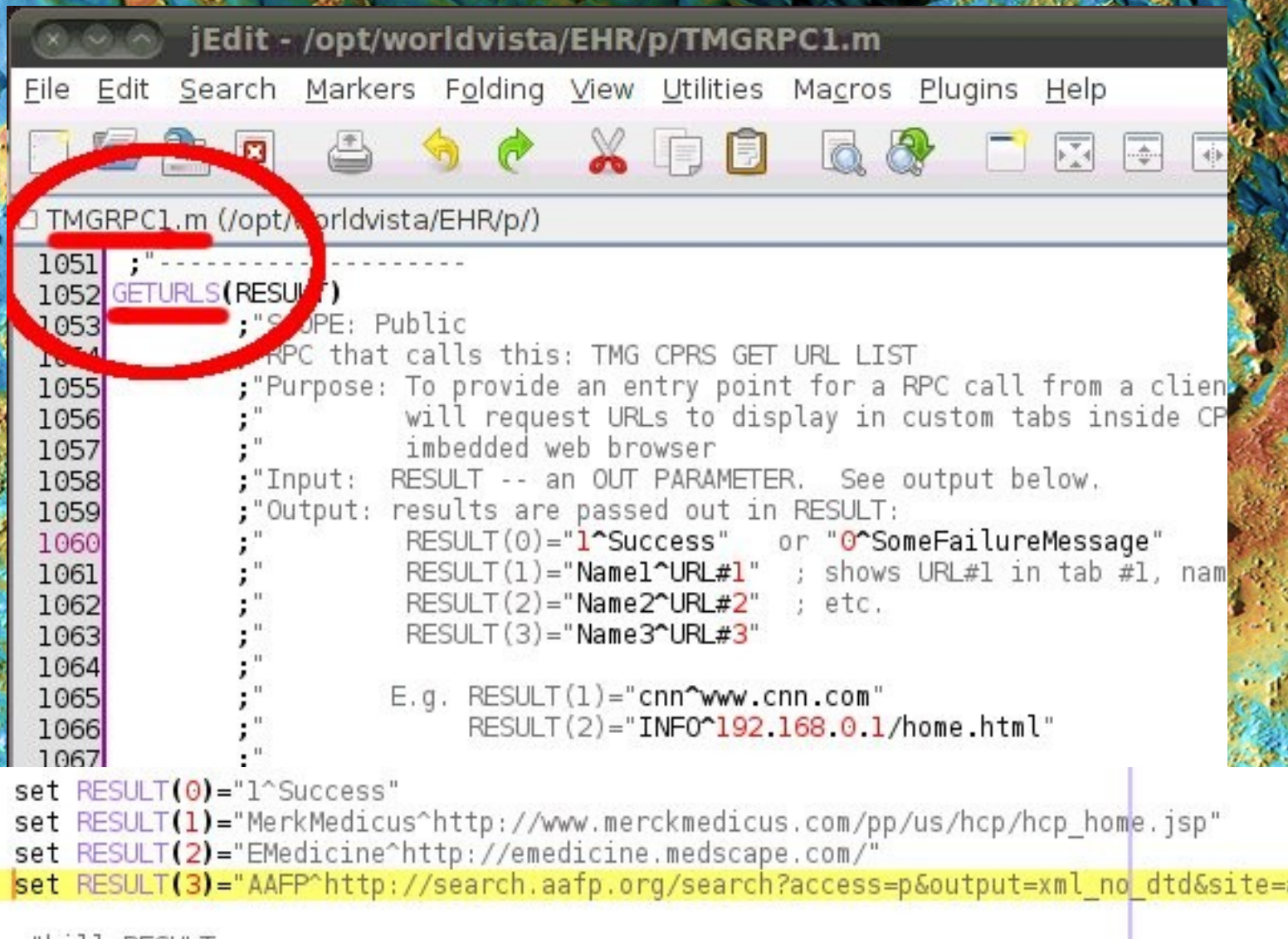
Language Return pages written in any language

Occurrences Return results where my terms occur anywhere in the page

Cover Sheet Problems Meds Orders Notes Consults D/C Summ Labs Reports Image MerkMedicus EMedicine AAFP

Web Tabs

Server-side code allows run-time URL changes
Function is called whenever patient selected,
--> would allow sync with a web-based PMS



```
jEdit - /opt/worldvista/EHR/p/TMGRPC1.m
File Edit Search Markers Folding View Utilities Macros Plugins Help

TMGRPC1.m (/opt/worldvista/EHR/p/)
1051 ;"-----
1052 GETURLS(RESULT)
1053 ;"SCOPE: Public
1054 ;"RPC that calls this: TMG CPRS GET URL LIST
1055 ;"Purpose: To provide an entry point for a RPC call from a client
1056 ;"          will request URLs to display in custom tabs inside CP
1057 ;"          imbedded web browser
1058 ;"Input:  RESULT -- an OUT PARAMETER.  See output below.
1059 ;"Output: results are passed out in RESULT:
1060 ;"          RESULT(0)="1^Success"    or "0^SomeFailureMessage"
1061 ;"          RESULT(1)="Name1^URL#1"  ; shows URL#1 in tab #1, nam
1062 ;"          RESULT(2)="Name2^URL#2"  ; etc.
1063 ;"          RESULT(3)="Name3^URL#3"
1064 ;"
1065 ;"          E.g. RESULT(1)="cnn^www.cnn.com"
1066 ;"          RESULT(2)="INFO^192.168.0.1/home.html"
1067 ;"

set RESULT(0)="1^Success"
set RESULT(1)="MerkMedicus^http://www.merckmedicus.com/pp/us/hcp/hcp_home.jsp"
set RESULT(2)="EMedicine^http://emedicine.medscape.com/"
set RESULT(3)="AAFP^http://search.aafp.org/search?access=p&output=xml_no_dtd&site=
```




HTML Note Formatting

HTML Note Rendering

The screenshot displays a medical software window titled "Vista CPRS in use by: Toppenberg, Kevin S (192.168.3.99)". The interface includes a menu bar (File, Edit, View, Action, Options, Tools, Help) and a header section with patient information: "TEST, KILLME DON'T", "427-0-1-0101P", "Jan 01, 2001 (9)", "lo Jun 05, 10 13:12", "Provider: TOPPENBERG, KEVIN S", "Primary Care Team Unassigned", "Flag", "Remote Data", and "Postings A".

The left sidebar contains a "Last 100 Signed Notes" list with options for "New Note in Progress" and "All signed notes". Below this is a "Templates" section with a "Tables" folder containing various medical templates like "Combined PMH", "Problem List TA", "Diabetic Studie", "Lipids TABLE", "Thyroid TABLE", "HTN Table", "COPD Table", "Asthma Table", "Anemia TABLE", "Chronic Studie", "Medical Team", "Family Hx TABI", "Social Hx TABI", and "Surninal Hx TA". At the bottom of the sidebar are buttons for "Reminders", "Encounter", and "New Note".

The main content area shows a "NOTE" for "Jun 05, 2010@13:12" by "Toppenberg, Kevin S". The note title is "Progress Note". The text of the note includes:

- Identification:** TEST, KILLME DON'T is a 9 yr. old FEMALE.
- Reason for visit:** Scheduled visit for periodic followup of chronic problems.
- CHIEF COMPLAINT (CC):** Medical Recheck
- HISTORY OF PRESENT ILLNESS (HPI):**
 - HTN -- Here we can discuss hypertension
 - DM-2 -- And about diabetes
 - Lipids -- and here about lipids
- PAST MEDICAL HISTORY (PMH):** Patient's intake questionnaire documenting changes to past medical history was reviewed and discussed as needed.
- REVIEW OF SYSTEMS:** Patient's ROS from questionnaire was reviewed. Significant positive responses have been Incorporated into HPI above. A scanned copy should be included in EMR

The bottom of the window features a navigation bar with buttons for "Cover Sheet", "Problems", "Meds", "Orders", "Notes", "Consults", "D/C Summ", "Labs", "Reports", "Images", "MerkMedicus", "EMedicine", and "AAFP".

HTML Note Rendering

- ASCII Code of HTML text is store on server like any other note.
- Users that want to stay with plain text can (e.g. my physician wife prefers to not have to deal with formatting).
- Preferences are saved for each user.
- Rendering is achieved by an embedded Internet Explorer (IE). So anything that IE can do can be achieved in a note.
- If server-side printing is needed, it is possible to route HTML text through an HTML renderer as part of the initialize code of a printer device
- I have used this for a year or more and have been very happy with it.
- Greatly increased readability! (VA notes are horrible)



[illegible]

Vista CPRS in use by: Toppenberg, Kevin S (192.168.3.99)

File Edit View Action Options Tools Help

TEST, KILLME DON'T

427-0-1-0101P Jan 01, 2001 (9)

lo Jun 05, 10 13:12

Provider: TOPPENBERG, KEVIN S

Primary Care Team Unassigned

Flag

Remote Data

Postings

A

Last 100 Signed Notes

NOTE

Jun 05, 2010 @ 13:12

Toppenberg, Kevin S

Change...

New Note in Progress

Jun 05, 10 NO

Vst: 06/05/10 Laughlin_Office

Open

Look in: Desktop

My Recent Documents

Desktop

My Documents

My Computer

My Network Places

NetworkMap.bmp

killthis.jpg

Email-Cell.jpg

DSC00101.jpg

Bicycle_Wreck.jpg

WVEHRDir

Vitals5031

test

SENT FROM Vitals5031

Programs

Medicare

GUI-config

componentarray2

Cache

My Network Places

My Computer

My Documents

File name: killthis.jpg

Files of type: All (*.png;*.jpg;*.jpeg;*.bmp;*.ico;*.emf;*.wmf)

Open

Cancel

Date and Time of Image(s) (Optional)

NOW

Upload

Cancel

83°

Today Sun

5-Day Forecast

Vista CPRS in use by: Toppenberg, Kevin S (192.168.3.99)

File Edit View Action Options Tools Help

TEST, KILL ME DON'T	to Jun 05, 10 13:12	Primary Care Team Unassigned	Flag	Remote Data	Postings
427--0-1-0101P Jan 01, 2001 (9)	Provider: TOPPENBERG, KEVIN S				A

Last 100 Signed Notes

- New Note in Progress
- Jun 05, 10 NO
- All signed notes
- Feb 28, 10 OFF
- Jan 14, 10 NOT
- Jan 14, 10 OFF

NOTE Jun 05, 2010@13:12 Toppenberg, Kevin S

Vst: 06/05/10 Laughlin_Office

3 (12 pt)

Neck: Supple, FROM. No bruit, adenopathy, or thyromegally. No supraclavicular nodes

Change...

Upload Images to Server

Image(s) to Link to Note: ☒ Move Files to Server

C:\Documents and Settings\le.hagood.TMG\Desktop\killthis.jpg

Pick Image(s) Pick Other Clear


Note to Attach Image(s) to:
Jun 05, 10 NOTE , Laughlin_Office, Toppenberg, Kevin S

Short Description (0-60 characters)
Left Thumb

Long Description (Optional)
Caught thumb in car door

Date and Time of Image(s) (optional)
1/1/2010

Upload Cancel



VistA CPRS in use by:Toppenberg,Kevin S (192.168.3.99)

File Edit View Action Options Tools Help

TEST,KILLME DON'T

427--0-1-0101P Jan 01,2001 (9)

lo Jun 05,10 13:12

Primary Care Team Unassigned

Flag

Remote Data

Postings A

Last100 Signed Notes

New Note in Progress

Jun 05,10 NO

All signed notes

Feb 28,10 OFF

Jan 14,10 NOT

Jan 14,10 OFF

Oct 24,09 OFF

Aug 03,09 ACL

Templates

Tables

Combined PMH

Problem List T4

Diabetic Studie

Lipids TABLE

Thyroid TABLE

HTN Table

COPD Table

Asthma Table

Anemia TABLE

Chronic Studie

Medical Team

Family Hx TABI

Social Hx TABI

Surgical Hx TA

Reminders

Encounter

New Note

NOTE

Jun 05,2010@13:12 Toppenberg,Kevin S

Change...

Vst: 06/05/10 Laughlin_Office

3 (12 pt)


Neck: Supple, FROM. No bruit, adenopathy, or thyromegally.No supraclavicular nodes

Heart: Reg. Rate and Rhythm. Normal S1/S2 No murmurs, clicks, gallops, or rubs.

Lungs: CTAB, no crackles or wheezes. Normal AP diameter. No increased work of breathing

Abdomen: Normoactive bowel sounds. Palpation is unremarkable. Soft and benign.

Extremities: Good peripheral perfusion. No significant edema at the ankles. Evidence of finger trauma noted



Back: Good symmetry. Non-tender.

Neuro: CN II-XII intact (grossly). Gait safe and steady

Skin: Partial skin exam (dressed) reveals no worrisome lesions

<No encounter information entered>

Cover Sheet

Problems

Meds

Orders

Notes

Consults

D/C Summ

Labs

Reports

Images

MerkMedicus

EMedicine

AAFP

TEST, KILLME DON'T

427--0-1-0101P Jan 01, 2001 (9)

lo Jun 05, 10 13:12

Provider: TOPPENBERG, KEVIN S

Primary Care Team Unassigned

Flag

Remote
Data

Postings

A

Last 100 Signed Notes

Visit: 06/05/10 NOTE, Laughlin_Office, KEVIN S TOPPENBERG (Jun 05, 10@13:12)

All signed notes

- Jun 05, 10 NOT
- Feb 28, 10 OFF
- Jan 14, 10 NOT
- Jan 14, 10 OFF
- Oct 24, 09 OFF
- Aug 03, 09 ACL
- Aug 03, 09 COM
- Jul 19, 09 OFF
- Apr 08, 09 NOT
- Apr 03, 09 ACU
- Feb 23, 09 NO1
- Nov 19, 08 ACL
- Nov 04, 08 OFF
- Sep 03, 08 ACL
- Sep 03, 08 ACL
- Sep 02, 08 ACL
- Aug 31, 08 NO1
- Aug 27, 08 NO1
- Aug 27, 08 OFF
- Aug 27, 08 NO1
- Jan 21, 08 PRE
- Jan 13, 08 TES
- Jan 13, 08 NOT
- Jan 07, 08 ACU
- Jan 07, 08 ACU

/ Templates

Encounter

New Note

(09/01/2005) Ht 69 in [175.3 cm], BMI 36.9 (30-40 = "OBESE")
(Ideal Wt=125-169 lbs; 81 lbs over weight)
Weight up 34 lbs. (250 <= 216 prior wt)

- 1. General: Well nourished, well developed no apparent distress. Alert and oriented x 3, mentally sharp. Appears age of 9
- 1. HEENT: Head is normo-cephalic, atraumatic. Eyes: EOMI. Nose: Patent. Mouth: Moist mucus membranes, adequate dentition.
- 1. Neck: Supple, FROM. No bruit, adenopathy, or thyromegally. No supraclavicular nodes
- 1. Heart: Reg. Rate and Rhythm. Normal S1/S2 No murmurs, clicks, gallops, or rubs.
- 1. Lungs: CTAB, no crackles or wheezes. Normal AP diameter. No increased work of breathing
- 1. Abdomen: Normoactive bowel sounds. Palpation is unremarkable. Soft and benign.
- 1. Extremities: Good peripheral perfusion. No significant edema at the ankles. **Evidence of finger trauma noted**



- 1. Back: Good symmetry. Non-tender.

Cover Sheet

Problems

Meds

Orders

Notes

Consults

D/C Summ

Labs

Reports

Images

MerkMedicus

EMedicine

AAFP

TEST, KILL ME DON'T

427--0-1-0101P Jan 01, 2001 (9)

lo Jun 05, 10 13:12

Provider: TOPPENBERG, KEVIN S

Primary Care Team Unassigned

Flag

Remote
Data



Postings

A

Description: Left Thumb
Procedure: Picture
Upload Date: 01/01/2010
Long Description:

NOTE -- Visit: 06/05/10
Location: Laughlin_Office -- Note Author: KEVIN S TOPPENBERG

Upload Images



Templates for HTML

(Time to put thinking caps on)



The screenshot shows the 'Template Editor' window with the following details:

- Menu Bar:** Edit, Action, Tools
- Buttons:** New Template, Copy, Hide Inactive, Delete
- Shared Templates:**
 - Shared Templates
 - Document Titles
 - Consult Reasons for Ref
 - Procedure Reasons for Ref
- Personal Templates:**
 - Female Complete Physi
 - Female Complete HTM
 - Male Complete Physica
 - Male Complete HTML f
 - Hx Items (quality etc)
 - Level 3 Note
 - Level 4 Visit
 - OLDLevel 4 HTML Visi
 - Level 4 HTML Visit
 - Imnnrted Vital Sinns
- Personal Template Details:**
 - Name:** Level 4 HTML Visit
 - Template Type:** Template
 - Reminder Dialog:**
 - Active:** ☒
 - Hide Items in Templates Drawer:** ☐
 - Exclude from Group Boilerplate:** ☐
 - Dialog Properties:**
 - Display Only: ☐
 - Only Show First Line: ☐
 - Indent Dialog Items: ☐
 - One Item Only: ☐
 - Hide Dialog Items: ☐
 - Number of Blank Lines to insert between items:** 0
 - Lock:** ☐
- Template Boilerplate:**
 - ☐ Allow Long Lines
 - Line: 53, Column: 1
- Template Content (HTML Code):**

```
<HTML><BODY>
<FONT size=6>Progress Note</FONT><p>
<b>Identification:</b> |PATIENT NAME| is a |PATIENT AGE| yr. old |PATIENT SEX|.
<b>Reason for visit:</b> Scheduled visit for periodic followup of chronic
problems.
<B>CHIEF COMPLAINT (CC):</B> Medical Recheck<P>
<B>HISTORY OF PRESENT ILLNESS (HPI):</B>
<UL><LI></LI>
<LI></LI>
<LI></LI></UL><P>
<B>PAST MEDICAL HISTORY (PMH)</B>: Patient's intake questionnaire documenting
changes to past medical history was reviewed and discussed as needed.<P>
<B>REVIEW OF SYSTEMS:</B> Patient's ROS from questionnaire was reviewed.
Significant positive responses have been Incorporated into HPI above.<nbsp;
<nbsp;A scanned copy should be included in EMR</P>
<P><B>MEDICATIONS</B>: These are listed on his chronic medication flow
sheet<nbsp;in paper chart.<nbsp;<nbsp;<nbsp;Please see that list for details.</P>
```
- Footer:**
 - ☐ Edit Shared Templ
 - ☐ Show Template N
 - OK, Cancel, Apply

HTML Tags in Templates

- Sometimes one needs to hide HTML formatting codes in a template. For example:
 - Prevent them from showing up in a CPRS Template Popup GUI Box
 - Prevent the codes from appearing when the template is dropped into a text-only note.
- *HTML Tags* provide a fix for this problem
- HTML Tags begin with "{HTML:" and end with "}". Example:
 - {HTML:}Some Bold Text {HTML:}

Advanced Template Functionality

- Traditional CPRS template syntax as below.
 - This is a test template for |PATIENT NAME|
Enter value: {FLD:NUMB1-16}
- This would result in the patient name, pulled from the server, to be placed in the final document. It would also generate a GUI box with a field that the user can interact with.
- The {FLD: NUMB1-16} happens to be a drop-down box. When the user selects a number and presses [OK], the resulting text is inserted into the note.
- However, *nothing more can be done with the user input inside the template.*

Advanced Template Functionality

- Now mathematical eval of user input is allowed. Example:

This is a test template for |PATIENT NAME|

Enter value: {FLD:NUMB1-16}

Enter value: {FLD:NUMB1-16}

Result 1: {FN: [FLD:1:NUMB1-16]+[FLD:2:NUMB1-16] }

- This template would present the user with a GUI box containing two drop-down boxes. The user input would be evaluated in a math function. In this case the math function is a simple addition of the two fields.

Template {OBJ: ... } tags

- {OBJ: } tags will cause a TIU text object to be evaluated.
- The only difference between this and simply including the object directly into the template is that that text object is not resolved (i.e. value obtained from the server) until after the user presses OK on the GUI box. Example:

Result 3: {OBJ:PATIENT NAME}

- This will pull in |PATIENT NAME| object.
- The power of this will be explored below

Template {OBJ: ... } -- With Params.

- When the TMG-CPRS-TEXTOBJ-PARAM patch is installed, one may pass parameters into text objects.

This is a sample of a plain text object: |PATIENT NAME|

And this is an object with a parameter |MY TEXT OBJECT{5}|

And another object with a param |MY TEXT OBJECT{Some Text}|

- The server code supporting/defining the custom text objects must be programmed to accept the custom parameter.

```
SET X=$$GETOBJ^TMGABC <-- old way
```

```
SET X=$$GETOBJ^TMGABC(X) <-- new way
```


{OBJ: ...} -- User input params

- Now we can start pulling some of these tools together to allow for very powerful templates. Example:

Enter value: {FLD:NUMB1-16}

Enter value: {FLD:NUMB1-16}

{OBJ:MY TEXT OBJECT{ [FLD:2:NUMB1-16] } }

- If the user selected a value of "1" for the first drop-down box, and "9" for the second drop down box, then the object would be resolved as follows:

{OBJ:MY TEXT OBJECT{ 9 } }

- And the server code might be written to return a value like this:

"The user entered: 9" (or something more clinically useful)

{OBJ:... With Math from User Input

- User Input can be modified by mathematical formulas as part of parameter passing. Example:

Enter value: {FLD:WEIGHT-LB}

Here is the Amoxil Dose: {OBJ:TMG DOSE KG {FN:
[FLD:1:WEIGHT-LB]/2.2}}

- *Let's say, for example, the user entered 30 (lbs)*
- **[FLD:1:WEIGHT-LB] <-- USER INPUT ("30")**
- **{FN:30/2.2} --> 13.636 (kg)**
- **{OBJ:TMG DOSE KG {13.636} --> passed to server.**
- Server code can return dose based on patient's kg wt, e.g. "545 mg"

Summary of Template Functionality

- **{FLD: ... }** -- classic CPRS
- **|MY TEXT OBJECT|** -- classic CPRS
- **{HTML: ... }** -- New. Hides formatting codes until dropped into an HTML note.
- **{FN: ... }** -- New. Allows calculations
- **{OBJ:MY TEXT OBJECT{parameters}}** -- New. Allows late evaluation of text objects, including passing parameters from user input and or the result of a {FN: ...}
- **[FLD: ...]** -- New. Used to pass user input into {OBJ: } or {FN: }
- Full syntax documentation here:
https://trac.opensourcevista.net/browser/cprs/branches/tmg-cprs/Server_KIDS/TMG-CPRS-TEXTOBJ-PARAM-1.0-1.TXT

TMG PATIENT FLD -- Text object

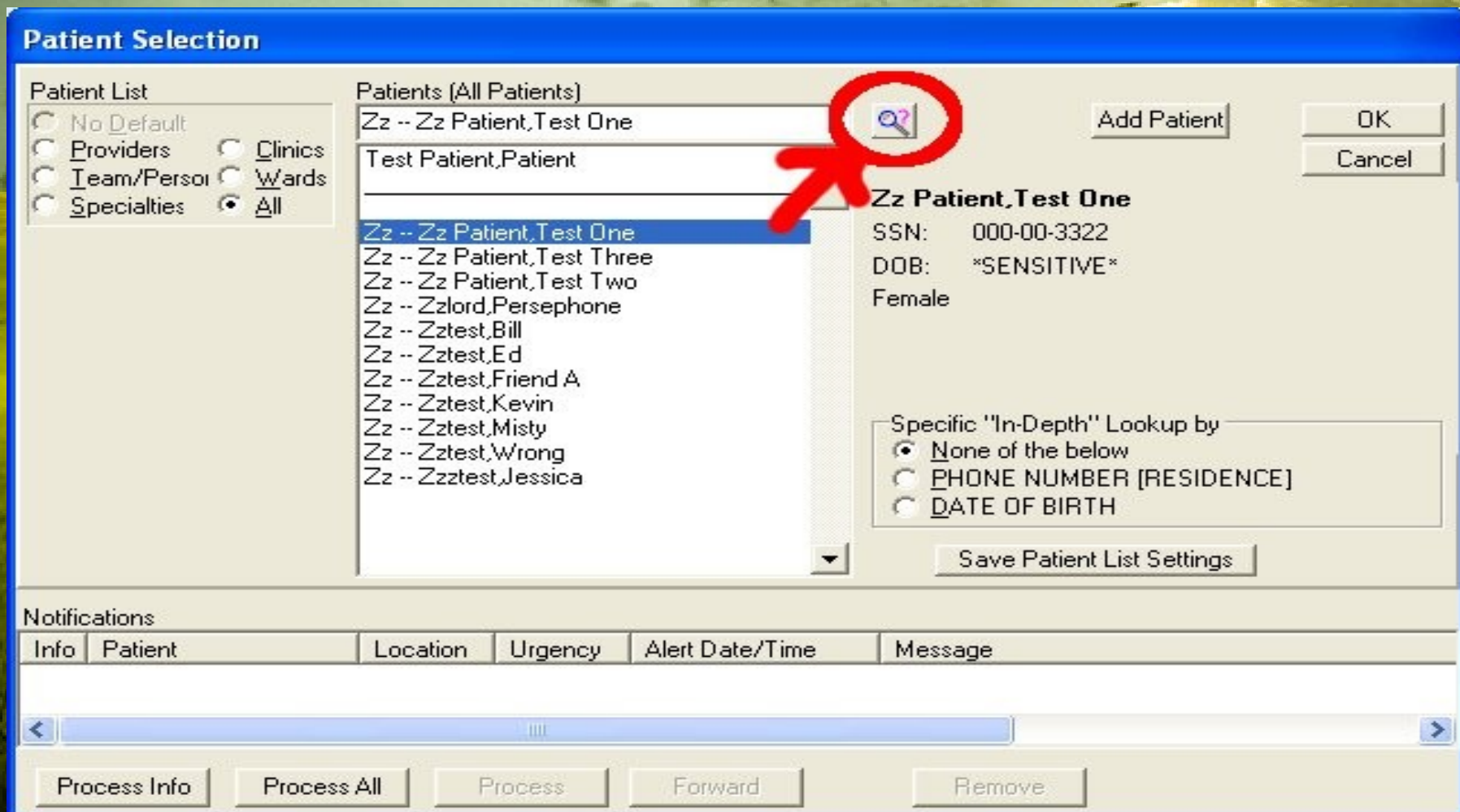
- Patch TMG-CPRS-TEXTOBJ-FMFLD*1.0*1
- Lookup of any patient Fileman field for use in a template.
- Syntax:
`|TMG PATIENT FLD{Field(s)^Flags^FormatString}|`
- E.G. `|TMG PATIENT FLD{.01}|`
Returns .01 field -- "SMITH,JOHN A"
- `|TMG PATIENT FLD{NAME}|` -- same as above
- `|TMG PATIENT FLD{NAME;SEX;AGE^^NAME: %NAME%, %AGE% yrs., %SEX%}|`
"NAME: SMITH,JOHN A, 34 YRS., MALE"
- Full syntax and details:
https://trac.opensourcevista.net/browser/cprs/branches/tmg-cprs/Server_KIDS/TMG-CPRS-TEXTOBJ-FMFLD-1.0-1.TXT



Patient Search in CPRS

Powerful Patient Search

Click Search Button



Patient Selection

Patient List

☐ No Default
☐ Providers
☐ Team/Person
☐ Specialties

☐ Clinics
☐ Wards
☒ All

Patients (All Patients)

Zz -- Zz Patient,Test One
Test Patient,Patent

Zz Patient,Test One

SSN: 000-00-3322
DOB: *SENSITIVE*
Female

Specific "In-Depth" Lookup by

☒ None of the below
☐ PHONE NUMBER [RESIDENCE]
☐ DATE OF BIRTH

Save Patient List Settings

Notifications

Info	Patient	Location	Urgency	Alert Date/Time	Message

Process Info Process All Process Forward Remove

Powerful Patient Search

Pick category (file) so search is -- in BASIC mode.

The screenshot shows a medical software interface with a 'Patient Selection' window. A 'Search Query' dialog box is open, titled 'Search For Entry in File: PATIENT'. The dialog box has a magnifying glass icon and a search bar. Below the search bar, there are two columns: 'Category' and 'Detail'. The 'Category' column has a list of items: '1. PATIENT INFO', '2. NOTES', '3. VITALS', '4. VISIT', and '5. LINKED CPT CODE'. The 'Detail' column has a list of items: 'NAME', 'CITY', 'STATE', 'ZIP CODE', 'NAME', 'SEX', 'DATE OF BIRTH', 'AGE', and 'CURRENT STATUS'. To the right of these columns is a section titled 'Enter Value to Search For' with a dropdown menu set to 'CONTAINS' and a text input field. At the bottom of the dialog box, there are 'Basic' and 'Advanced' tabs, with 'Basic' selected. Below the tabs is a large text input field. At the bottom right of the dialog box, there are 'Cancel' and 'Search' buttons. The background of the slide shows a green field with a flock of birds flying in the sky.

Category	Detail	Enter Value to Search For
1. PATIENT INFO	NAME	CONTAINS
1. PATIENT INFO	CITY	
2. NOTES	STATE	
3. VITALS	ZIP CODE	
4. VISIT	NAME	
5. LINKED CPT CODE	SEX	
	DATE OF BIRTH	
	AGE	
	CURRENT STATUS	

Basic Advanced

Cancel Search

Powerful Patient Search

Combine multiple search terms -- one on each line
Value field will change to match field value: Date picker,
record picker, set picker, or free text
Range searches are allowed

Search Query

Search For Entry in File: PATIENT

	Category	Detail		Enter Value to Search For
	2. NOTES	NOTE TEXT	CONTAINS	HTN
AND	1. PATIENT INFO	AGE	>. GREATER THAN	65
AND	4. VISIT	DATE/TIME	>. GREATER THAN	01/01/2010

Basic **Advanced**

8925: (2["HTN"]) AND 2: (.033>"65") AND 9000010: (.01>"1/1/2010")

January, 2010

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Today: 6/6/2010

Cancel Search

Powerful Patient Search

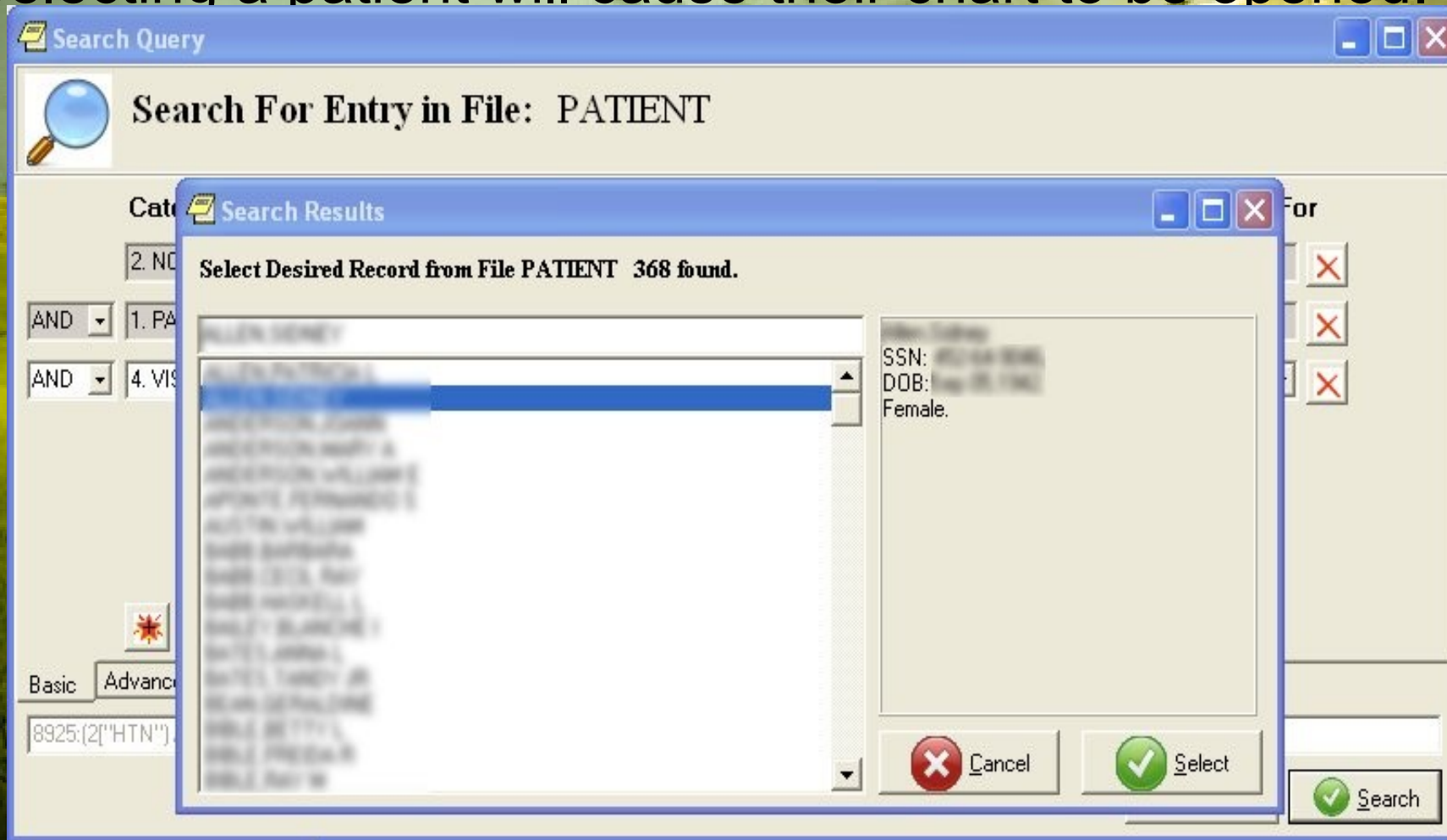
Search time will depend on database size, but can take 30+ seconds, so animated dialog shows progress



Powerful Patient Search

Here 368 matches are found. Demographics for matches shown.

Selecting a patient will cause their chart to be opened.



Powerful Patient Search

- Advanced mode search allows searching in **ANY** file that can be linked back to patient file in 3 hops or less
- Grouping "(" allows for more complex searches
- Can directly edit search string.

The screenshot shows a software window titled "Search Query" with standard Windows window controls. The main title bar is blue. Below it, a search icon is on the left, and the text "Search For Entry in File: PATIENT" is in the center. On the right, "Advanced Mode" is written in a red, italicized font. The main area contains a table with four columns: "Associated File", "Field", "Operator", and "Search Value". The first row has "PATIENT" in the first column, "A&A AMOUNT" in the second, "= EQUALS" in the third, and "HTN" in the fourth. Below the first column is a list of other files: "IVM FINANCIAL QUERY LOG", "IVM PATIENT", "ORDER", "ORDER PARAMETERS", "OUTPATIENT ENCOUNTER", "OUTPATIENT PROFILE", "PATIENT", and "PATIENT ALLERGIES". Below this list is a button with a plus icon and the text "Add another term to query". At the bottom left are two tabs: "Basic" and "Advanced", with "Advanced" selected. Below the tabs is a text box containing the query string "2:('A&A AMOUNT'='HTN')". At the bottom right are two buttons: "Cancel" with a red 'X' icon and "Search" with a green checkmark icon.

Associated File	Field	Operator	Search Value
PATIENT	A&A AMOUNT	= EQUALS	HTN

IVM FINANCIAL QUERY LOG
IVM PATIENT
ORDER
ORDER PARAMETERS
OUTPATIENT ENCOUNTER
OUTPATIENT PROFILE
PATIENT
PATIENT ALLERGIES

Add another term to query

Basic Advanced

2:('A&A AMOUNT'='HTN')

Cancel Search

A dramatic landscape featuring a vast, golden-yellow field in the foreground, likely a field of grain. A single, dark tree stands on a distant ridge. The sky is filled with large, dark clouds, and a bright sun is positioned behind them, creating a strong backlighting effect. A large flock of birds is seen flying in the upper right portion of the sky, moving towards the light. The overall mood is one of closure and hope.

The End

(for now)