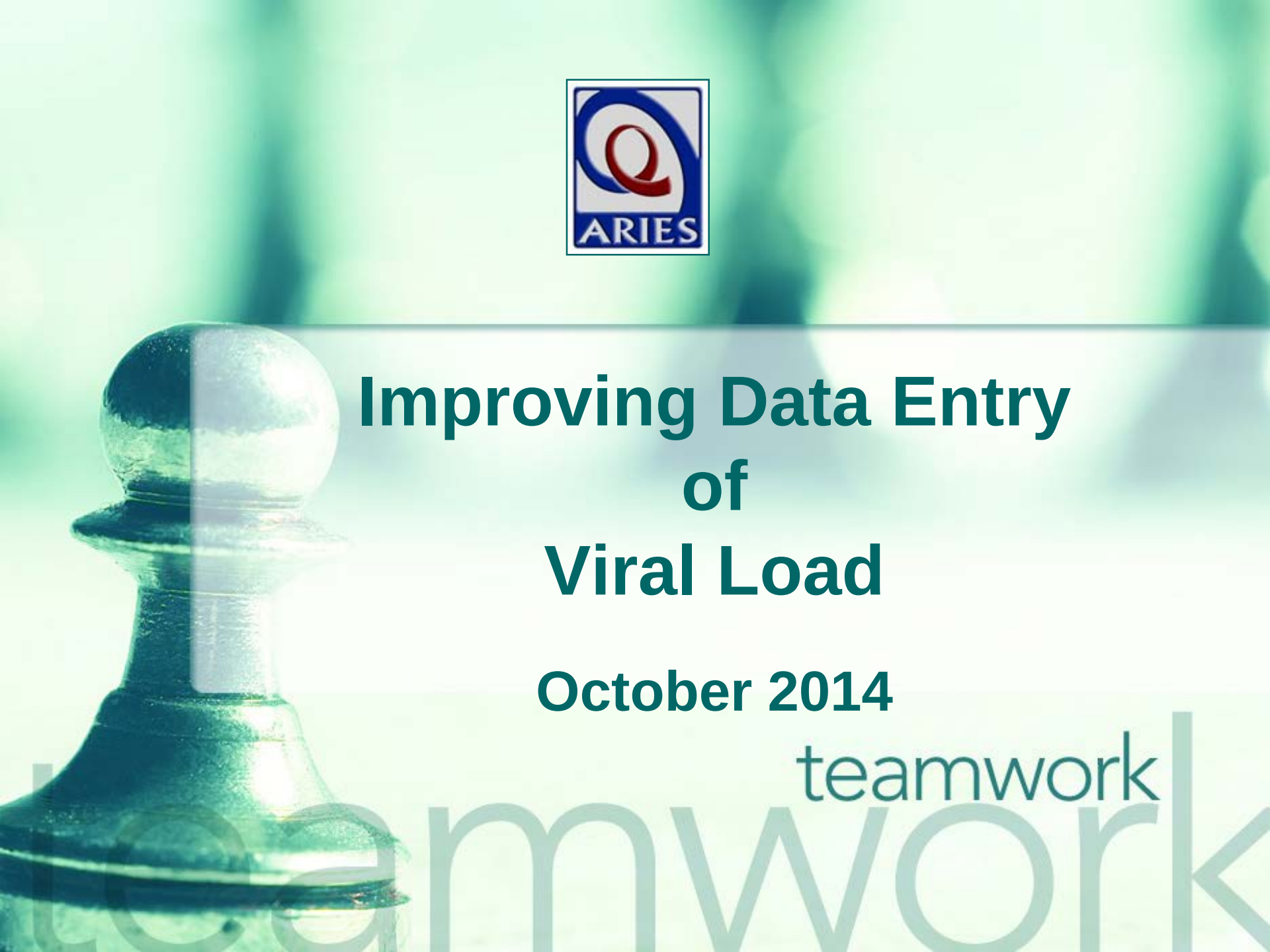


Improving Data Entry of Viral Load

October 2014

Welcome!

- The State Office of AIDS (OA) is continuing to work with providers to improve the quality of data that is collected and entered into ARIES
- Today's webinar will focus on viral load (VL) data

Introductions

- Chris Paular
- Aileen Barandas
- Karl Halfman
- Denise Absher
- Denise Little
- Dave Ranck

Webinar Items

- All lines will be muted during the presentation; lines will be un-muted at the end for questions
- You may use the Chat feature to ask questions at any time
- If your line cannot be un-muted, leave your internet browser open, hang up your phone, and call back into the webinar

Today we'll cover…

- The importance of VL in ARIES
- Entering VL data
- Tips for collecting VL data
- Lab batch data entry
- Running the Fix-It: VL Report
- Running QM reports for VL
- Running the Disease Management Report
- Questions and Answers

The Importance of VL: HHS Guidelines

- VL refers to the amount of HIV in the blood
- The VL count is the single most important indicator of treatment response, and should consistently be below the limits of quantification (< (“less than”) 200 copies/ml[3])
- The goal of Antiretroviral Therapy (ART) is to decrease morbidity & mortality and slow viral transmission; with effective ART, plasma VL should drop
- Reduced VL is associated with reduced risk of transmission

The Importance of VL: HIV/AIDS Bureau (HAB) Clinical Performance Measures

- VL Monitoring
  - Percent of HIV/AIDS patients with a VL test every 6 months during the measurement year
- VL Suppression
  - Percent of HIV/AIDS patients on ART with a VL below the limits of quantification, measured at the last test during the measurement year

The Importance of VL: Providers and OA

- Required for the state HIV Care Program (HCP)
- Required for the HRSA Ryan White Services Report (RSR)
- VL data will be incorporated into OA's HRSA Implementation Plan, Progress Reports, etc.

Entering VL data

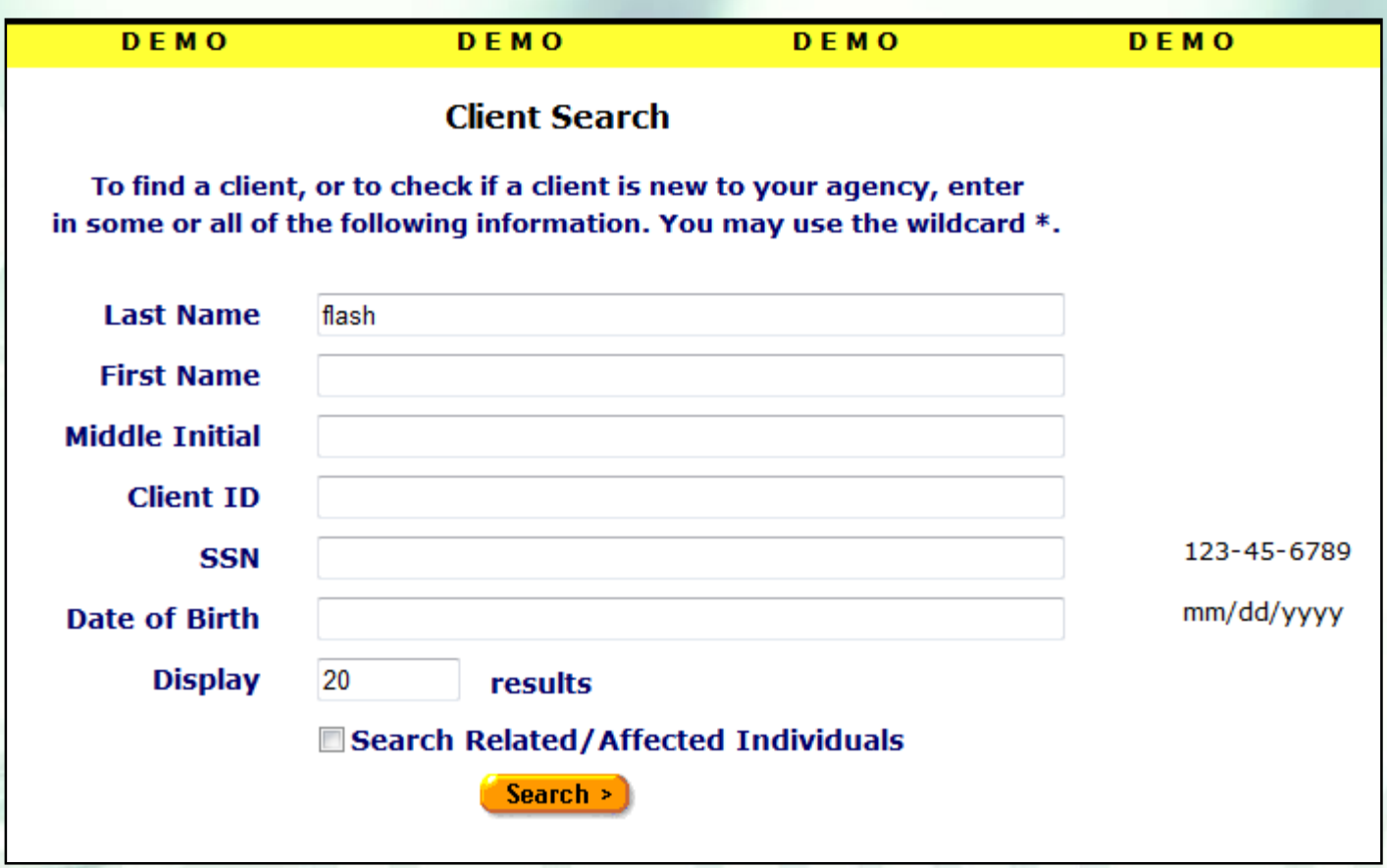
- Who needs to enter VL data?
- Review the steps for entering VL data for an existing client
- Provide tips for collecting accurate information

Who needs to enter VL data?

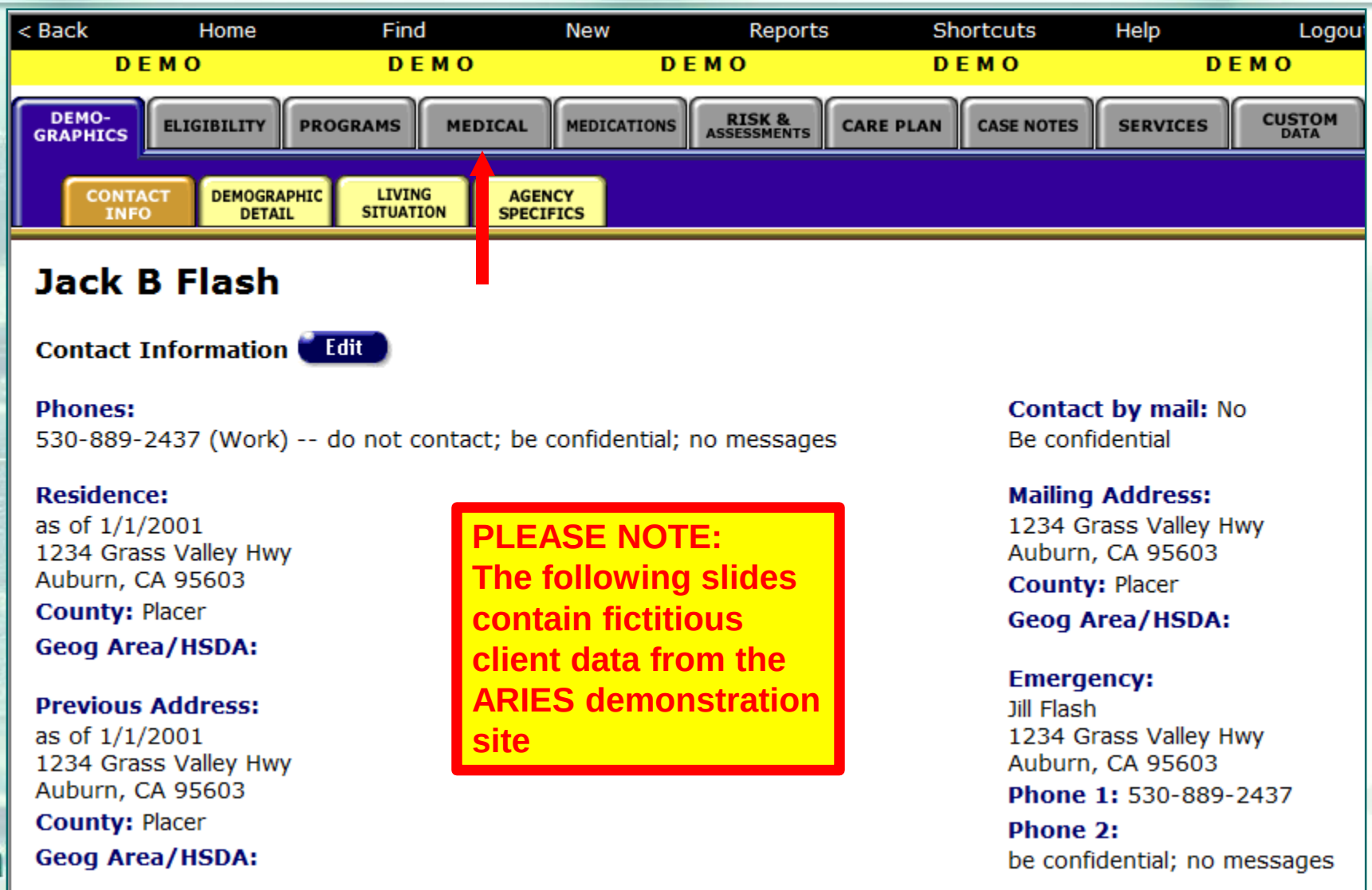
If your agency is…	Then you are required to enter VL data into ARIES for…
• Funded by the HIV Care Program (Part B) for "Outpatient/Ambulatory Medical Care" (OAMC)…	• Those clients who received any HCP-funded OAMC service regardless of who delivered the OAMC service

teamwork

Entering VL data for an existing client: Begin with a client search…



…Once found, navigate to the Medical History subtab…



…The Medical History Read-Only screen will display VL fields...

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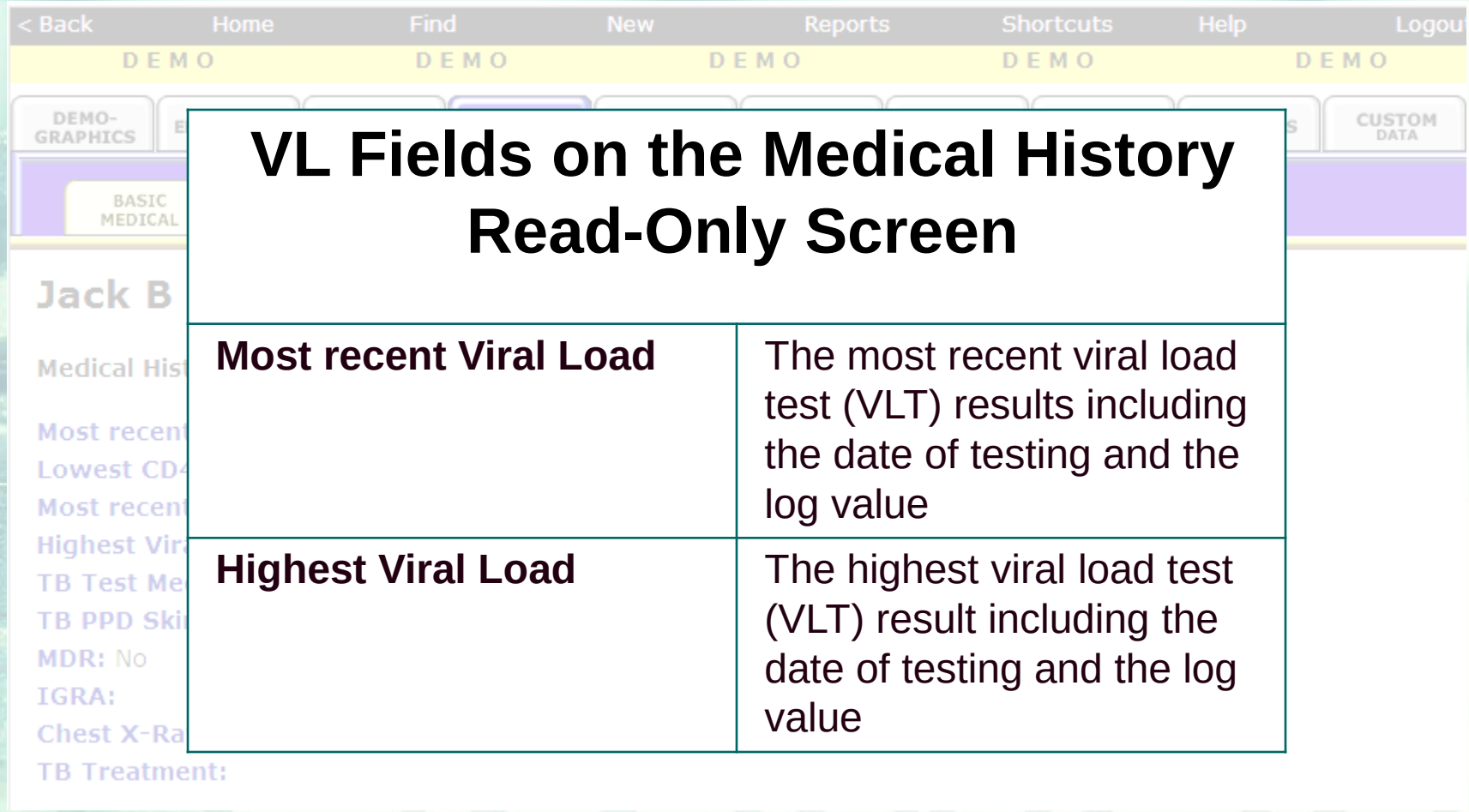
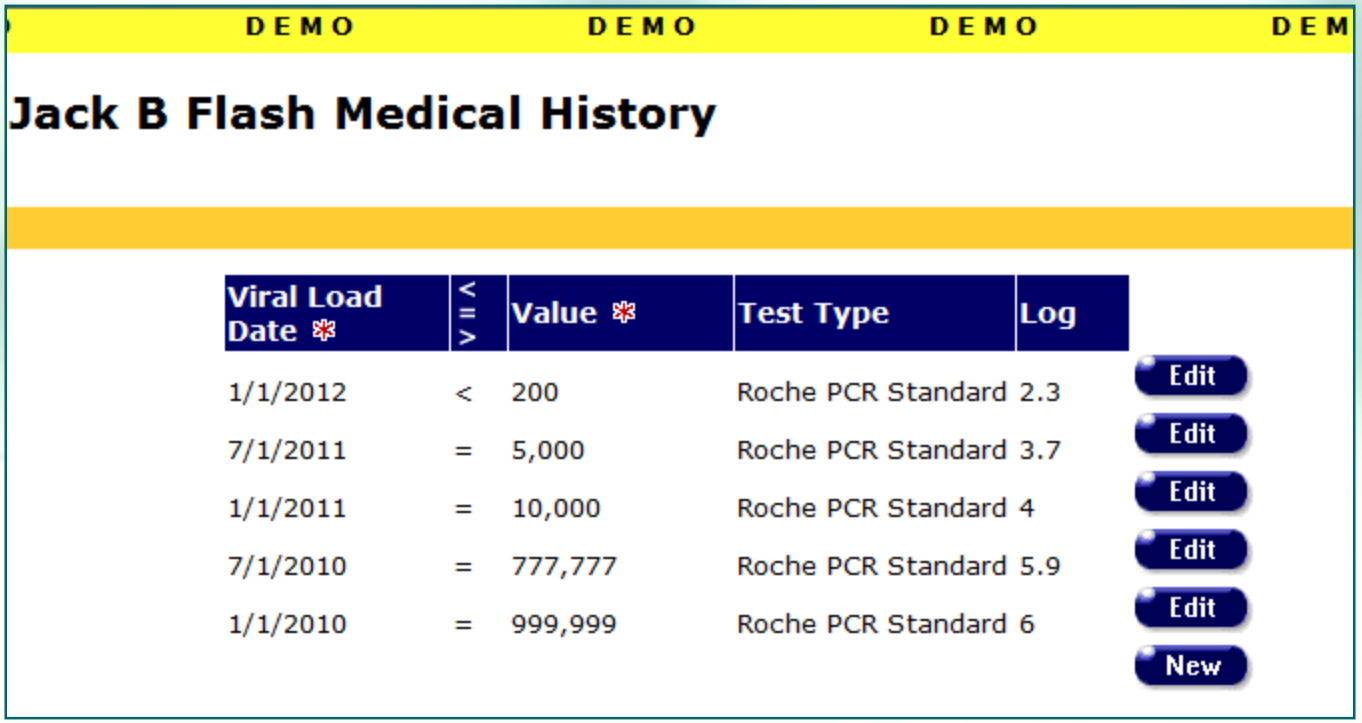


VL Fields on the Medical History Read-Only Screen

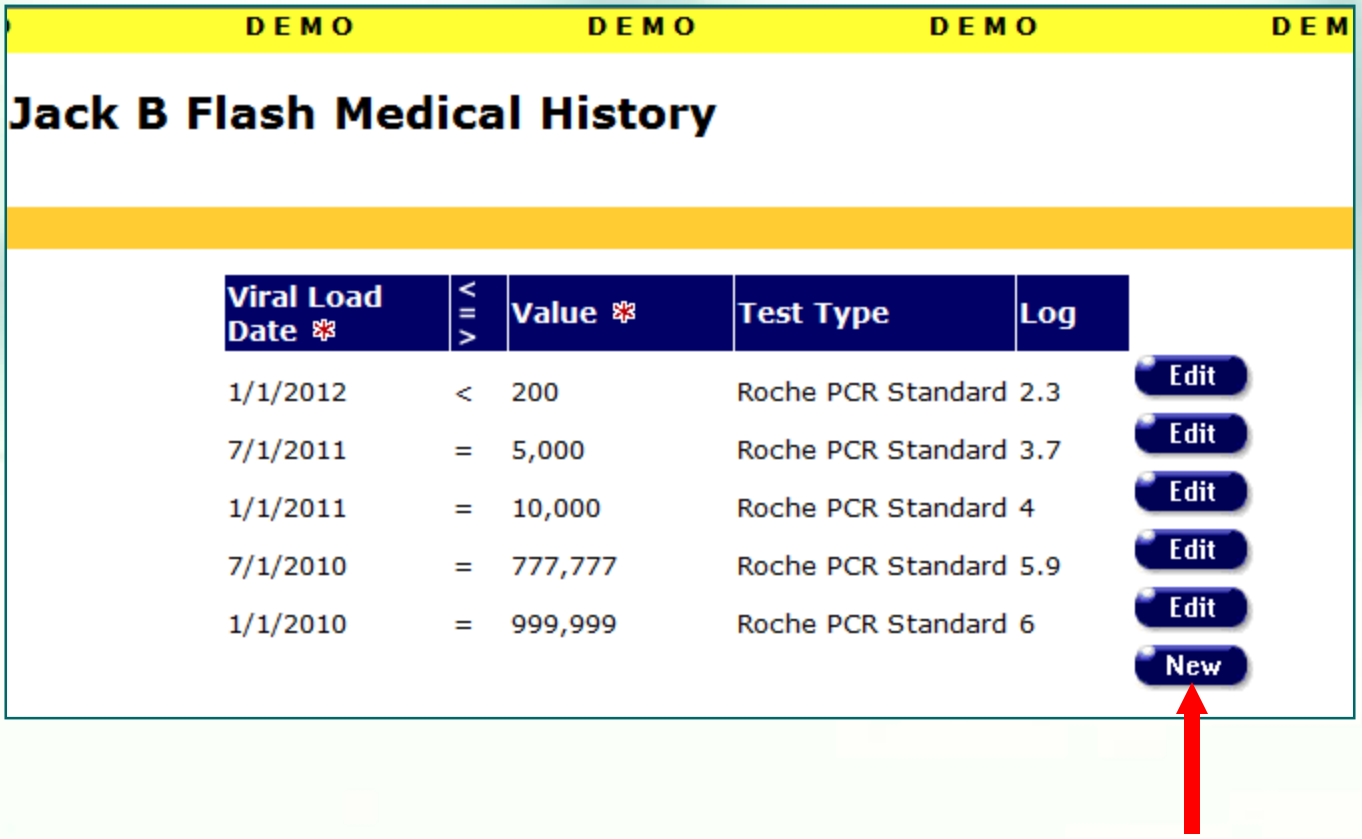
Most recent Viral Load	The most recent viral load test (VLT) results including the date of testing and the log value
Highest Viral Load	The highest viral load test (VLT) result including the date of testing and the log value

…Click Edit from the Medical History Read-Only screen…

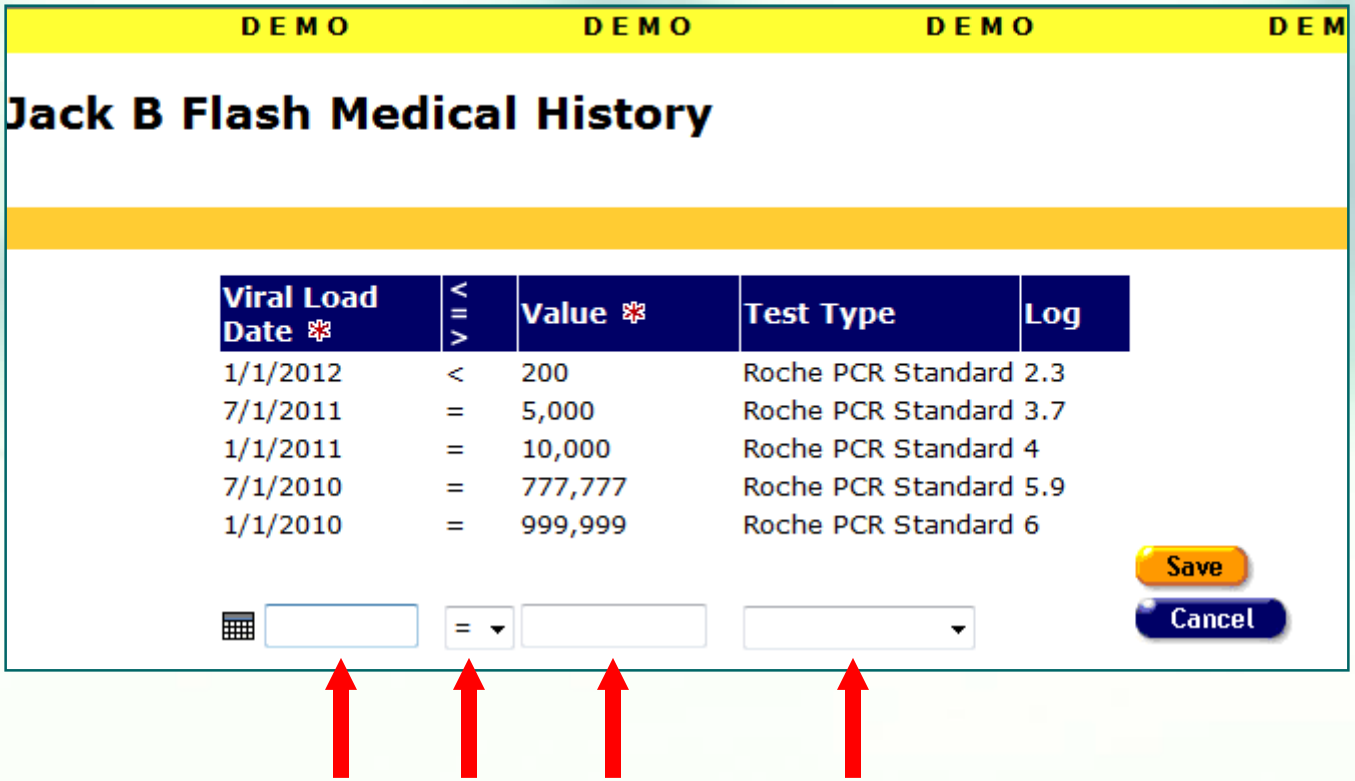
…The VL fields will be displayed at the top-right of the screen under Tests…



…To enter a new VL Count, click New under the appropriate field…



…When you click on *New* for VL, the *VL Date*, < = >, *T-Cell Count*, and *T-Cell Percentage* fields will be displayed…



…When you click on *New* for VL, the *VL Date, < = >, T-Cell Count*, and *T-Cell Percentage* fields will be displayed…

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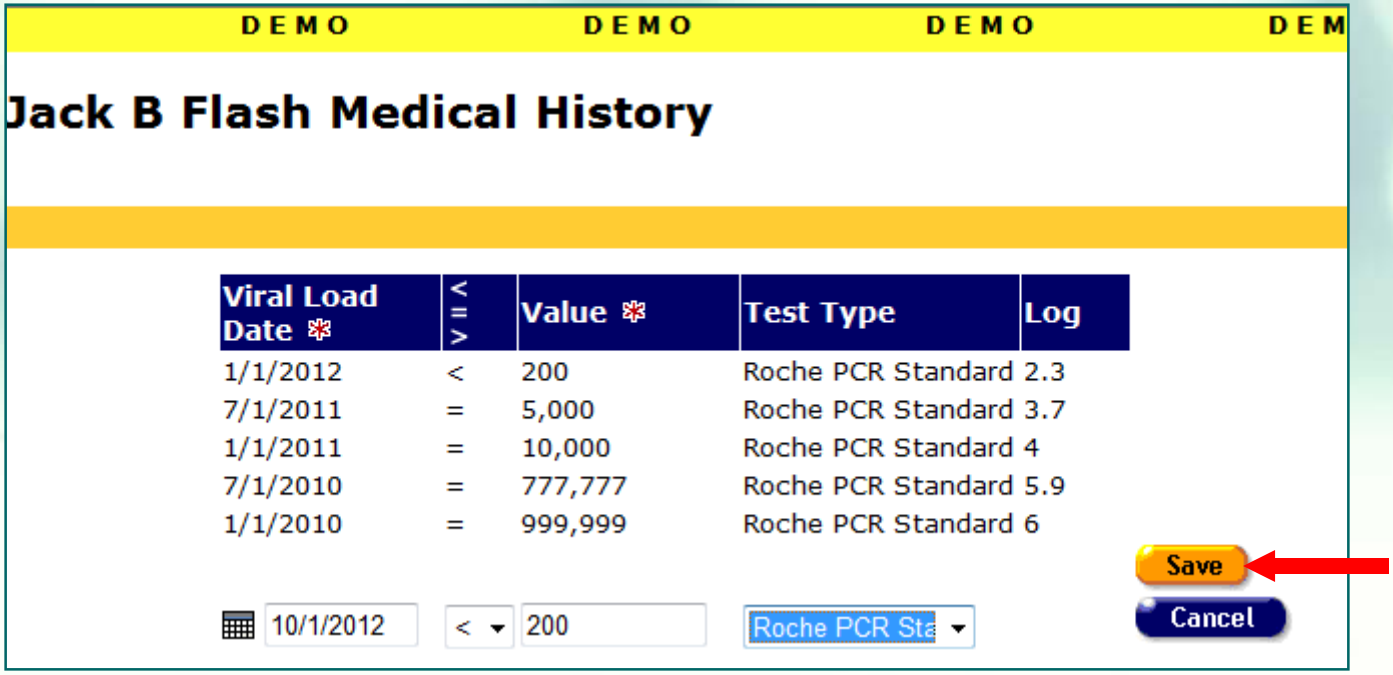
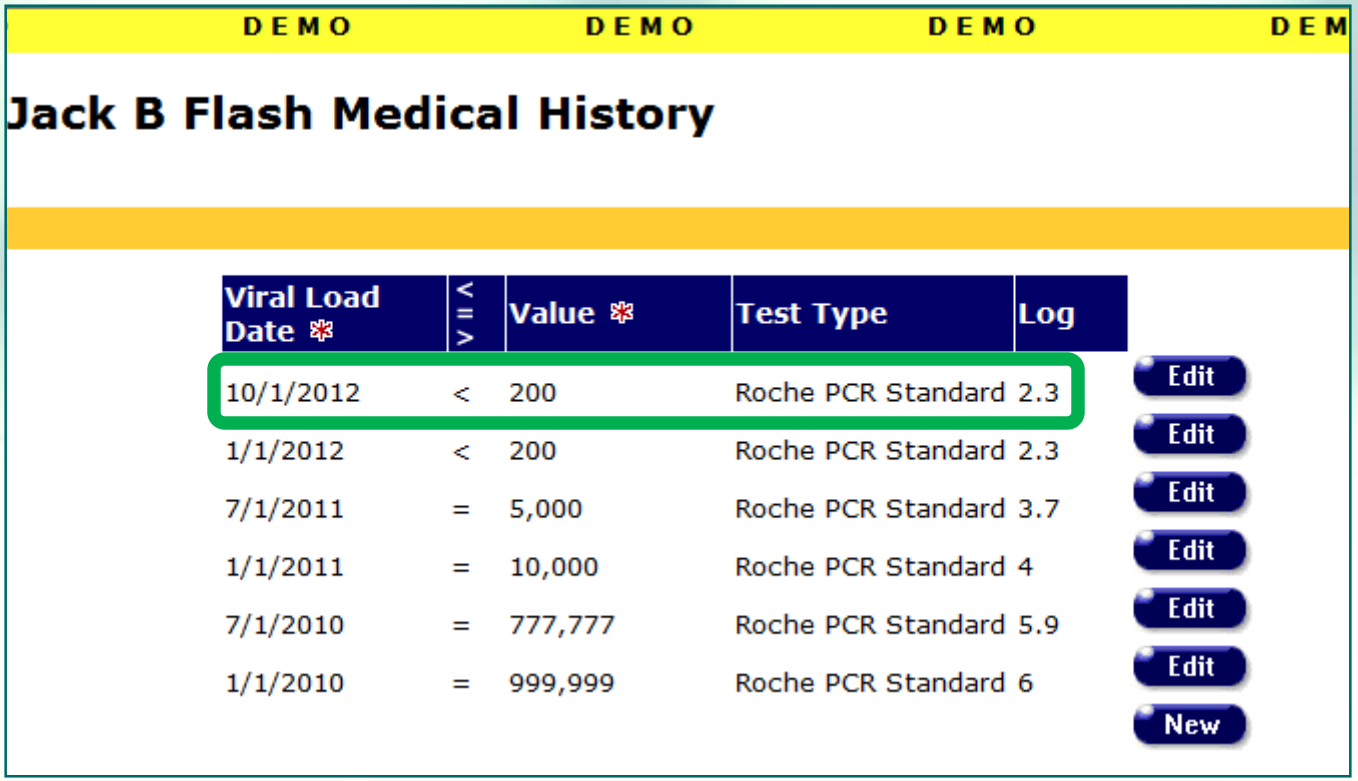
VL Field Definitions	
Viral Load Date	Enter the date the Viral Load Test (VLT) was administered. Format MM/DD/YYYY. You can also use the calendar pop-up by clicking the calendar icon. For each field, use the dropdown lists to select the month and year, and then click the specific date to enter it into the date text field. The calendar window automatically closes.
< = >	If the VLT is less than the value entered, select "<". If the VLT is greater than the value entered, select ">". Otherwise, select "=".
Value	Enter the client's VLT result. The number must be between 1 and 9,999,999. Do not type commas; ARIES will supply them. If the value is inexact or if it exceeds the range accepted, use the Relation <=> dropdown list (see above).
Test Type	Use the dropdown to select the appropriate viral load Test Type, if known.
Log	When you click the **Save** button, ARIES calculates the log value and enters it in this column.

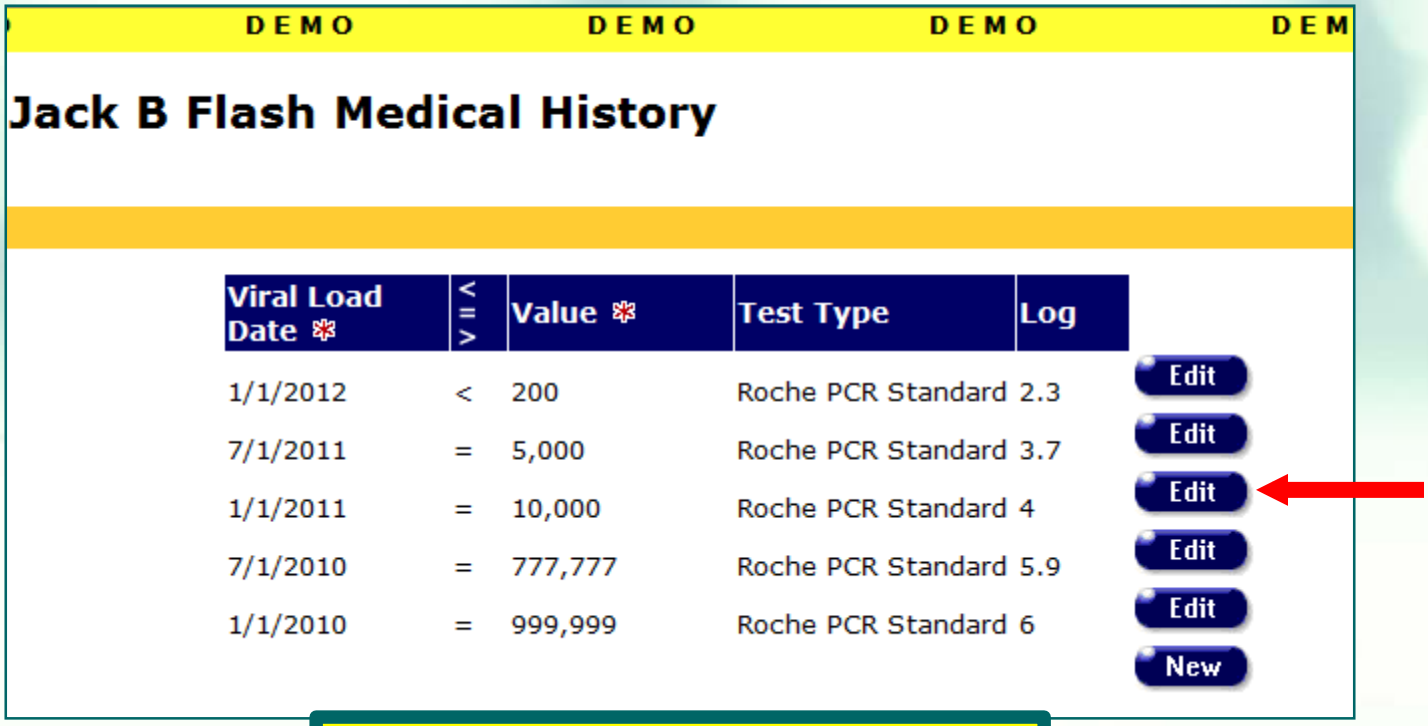
…Enter the appropriate VL data and click Save when done…



…The record we just entered appears on the screen.

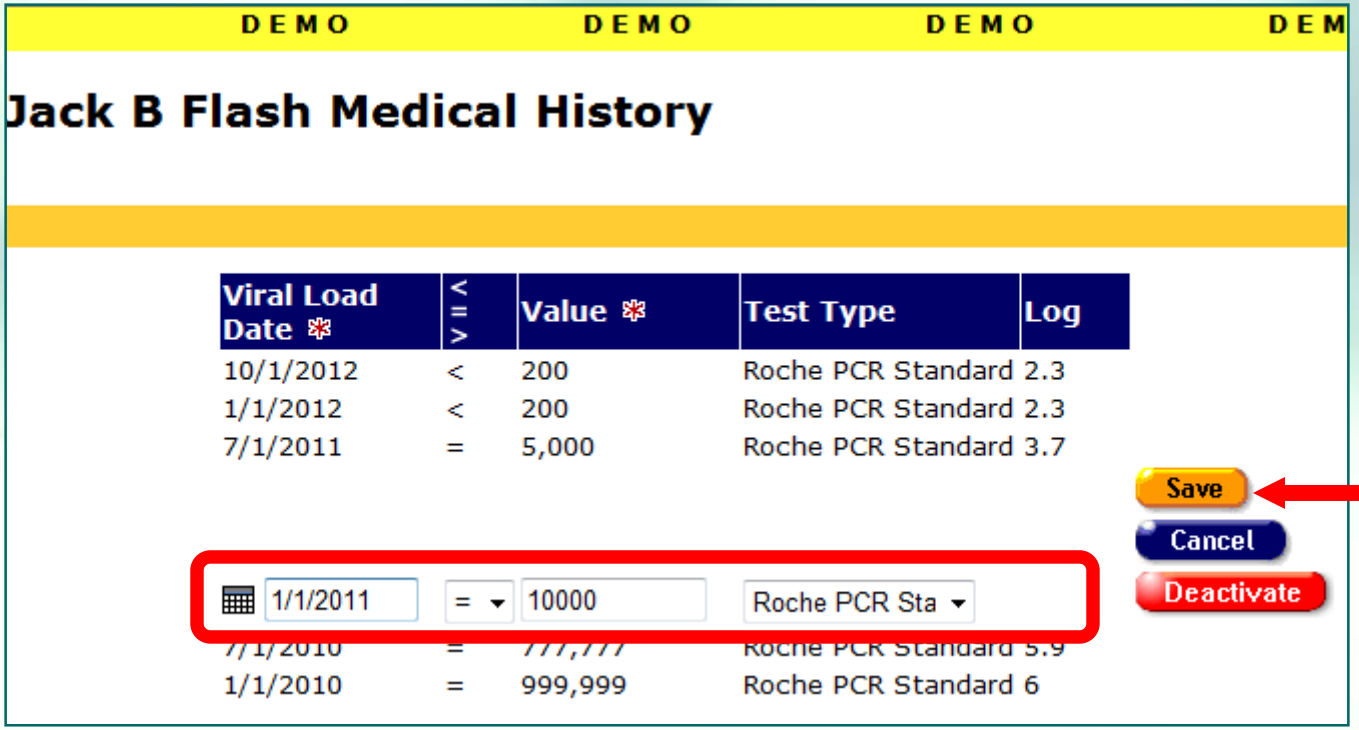


Steps to edit existing VL data: Click Edit next to the appropriate record...



PLEASE NOTE:
For share clients, you'll be able to see labs entered by other agencies the client visits for services, but you will not be able to edit other agencies' labs

…and you'll be able to edit the data on that particular record. Click Save when done.



Tips for Collecting VL data

- VL data should come from clinical sources such as a lab or physician's report, not from client self-report [HRSA states that "client self-report has been determined to be fairly unreliable"]
- Report the value and test date for all VL tests administered to the client during the reporting period

Tips for Collecting VL data (cont.)

- You should enter the actual score of the VL test and use the "=" ("equal") symbol when the actual value is known
- Only use the “<” (“less than”) symbol when a VL test is below limits of quantification (e.g. < 200)
- If a viral load count is undetectable, you should report the lower bound of the test limit
- You should never use the “>” (“greater than”) symbol

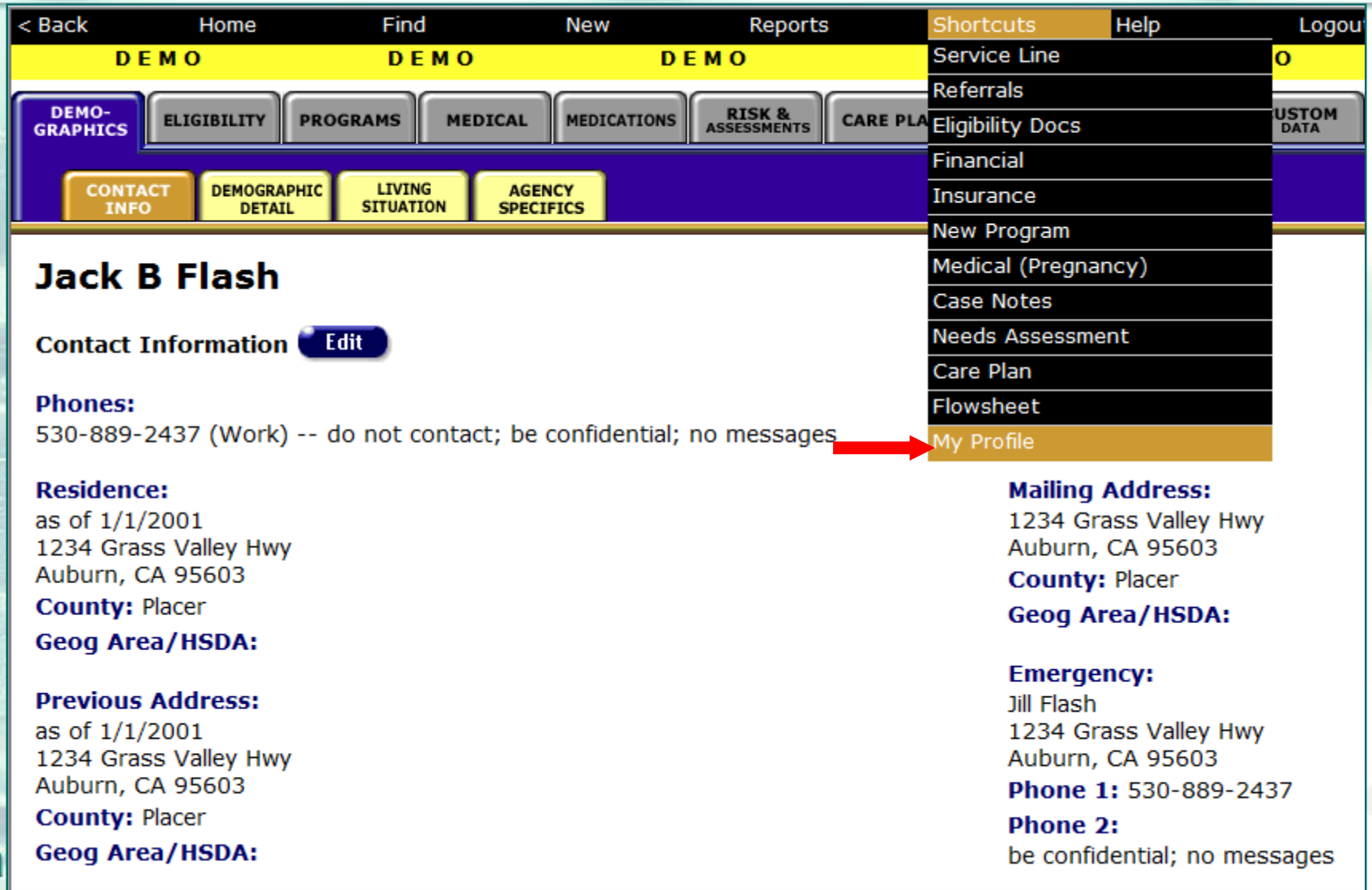
Tips for Collecting VL data (cont.)

- Enter the date the blood sample was drawn in the Viral Load Date field, not the date the results are reported by the lab
- If possible, have staff double check the entries

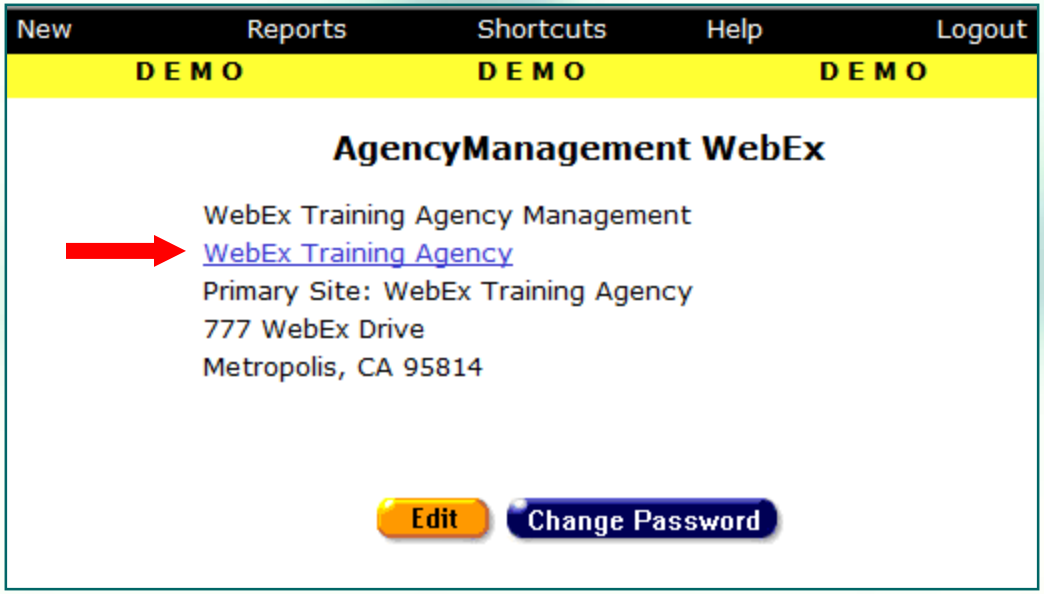
Lab Batch Data Entry

- The Lab Batch Data Entry tab in ARIES allows you to enter multiple test results in a single location
- This feature can save significant data entry time, rather than retrieving individual clients' records, tabbing to their medical screen, and entering data client-by-client

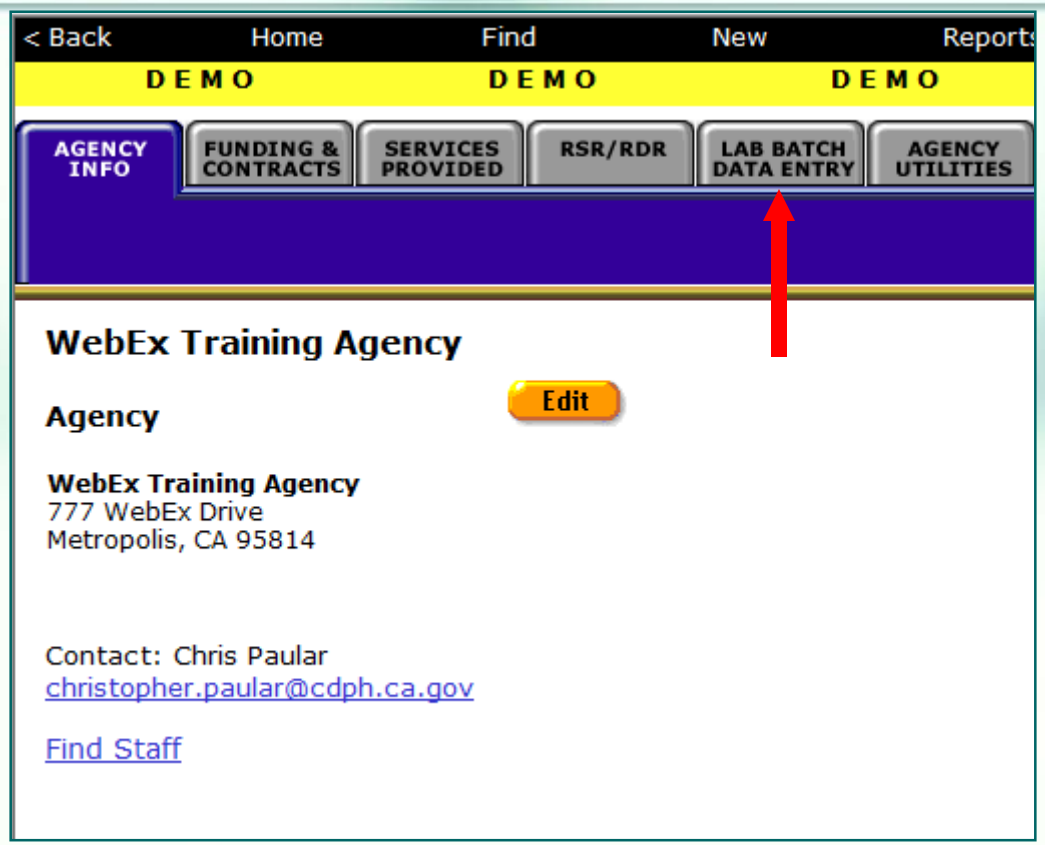
Entering batch lab data: Lab Batch Data Entry is located in the Agency screen. Click Shortcuts and then click My Profile…



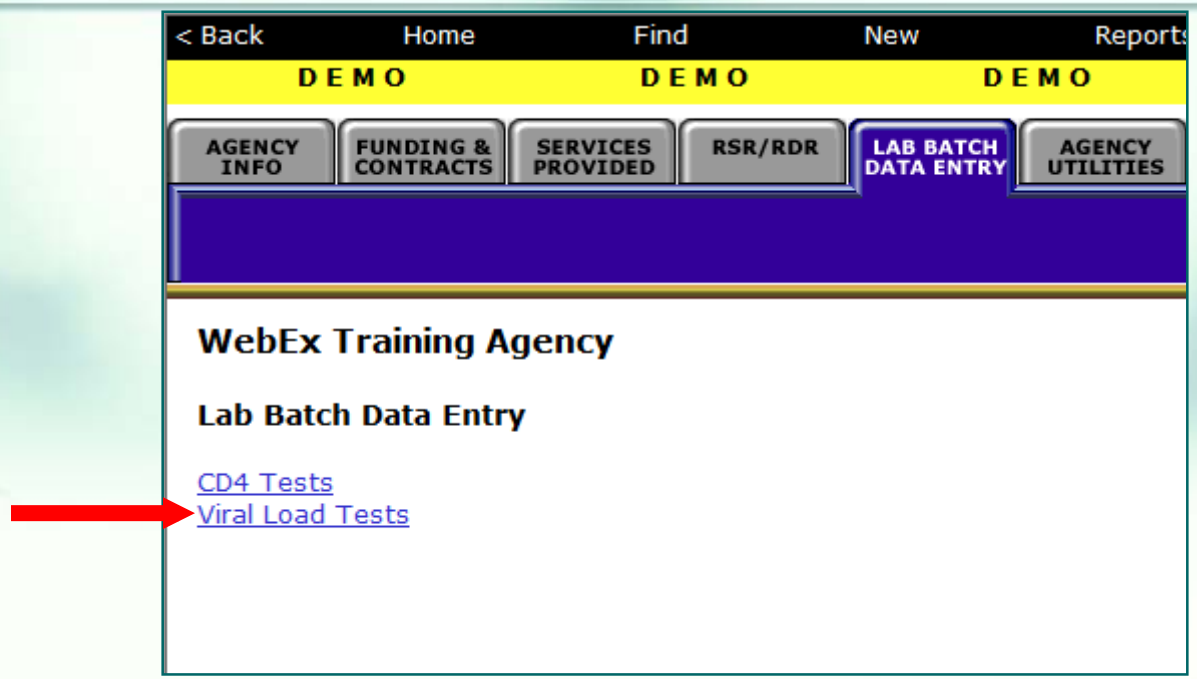
...On your My Profile screen, click on the link to your agency to access the Agency Info screen...



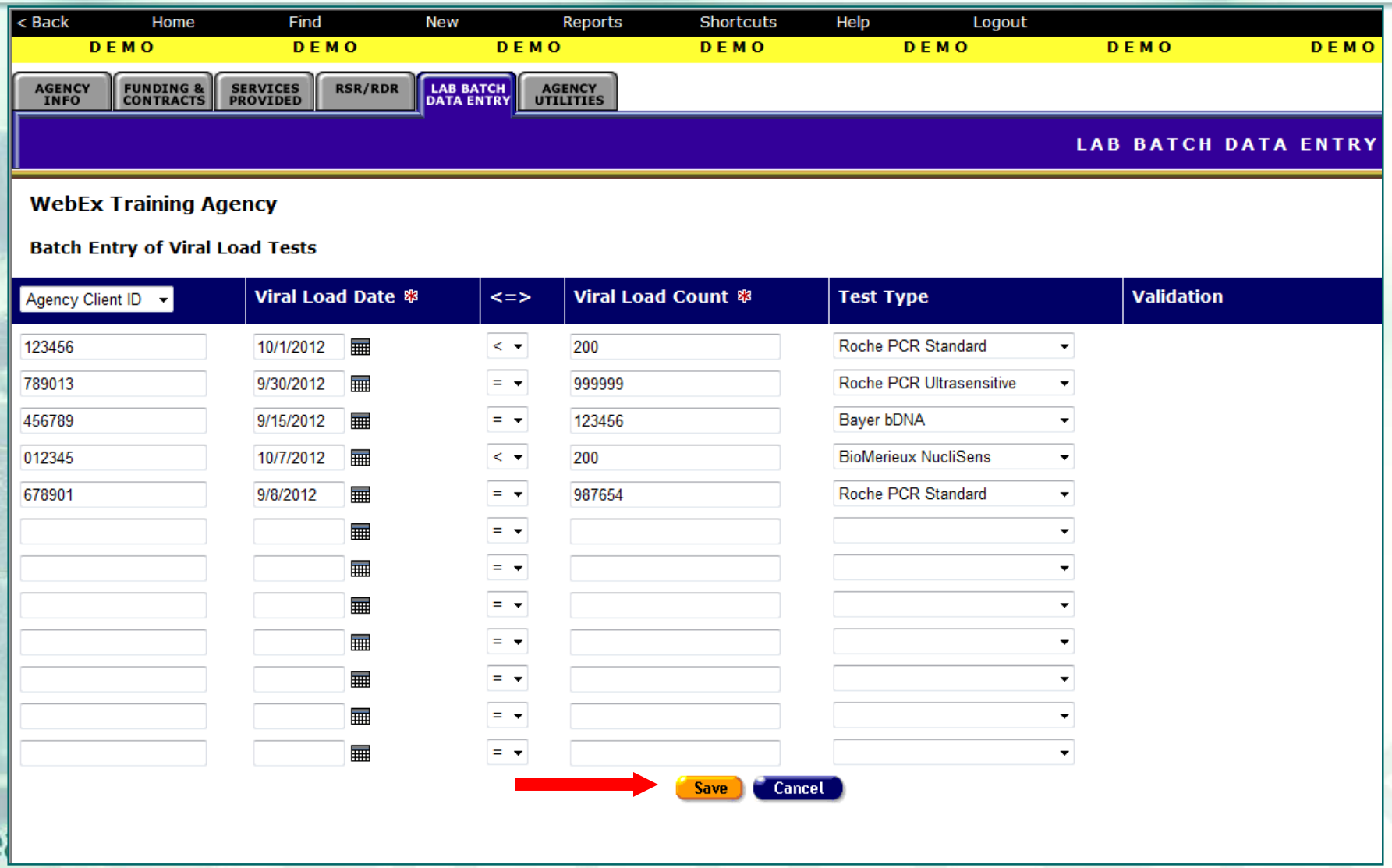
…On your agency's Agency Info screen, click on the Lab Batch Data Entry tab…



…To enter VL Tests, click the Viral Load Tests link…



...On the Batch Entry of Viral Load Tests screen, you can enter multiple VLs for different clients. Click Save when done.



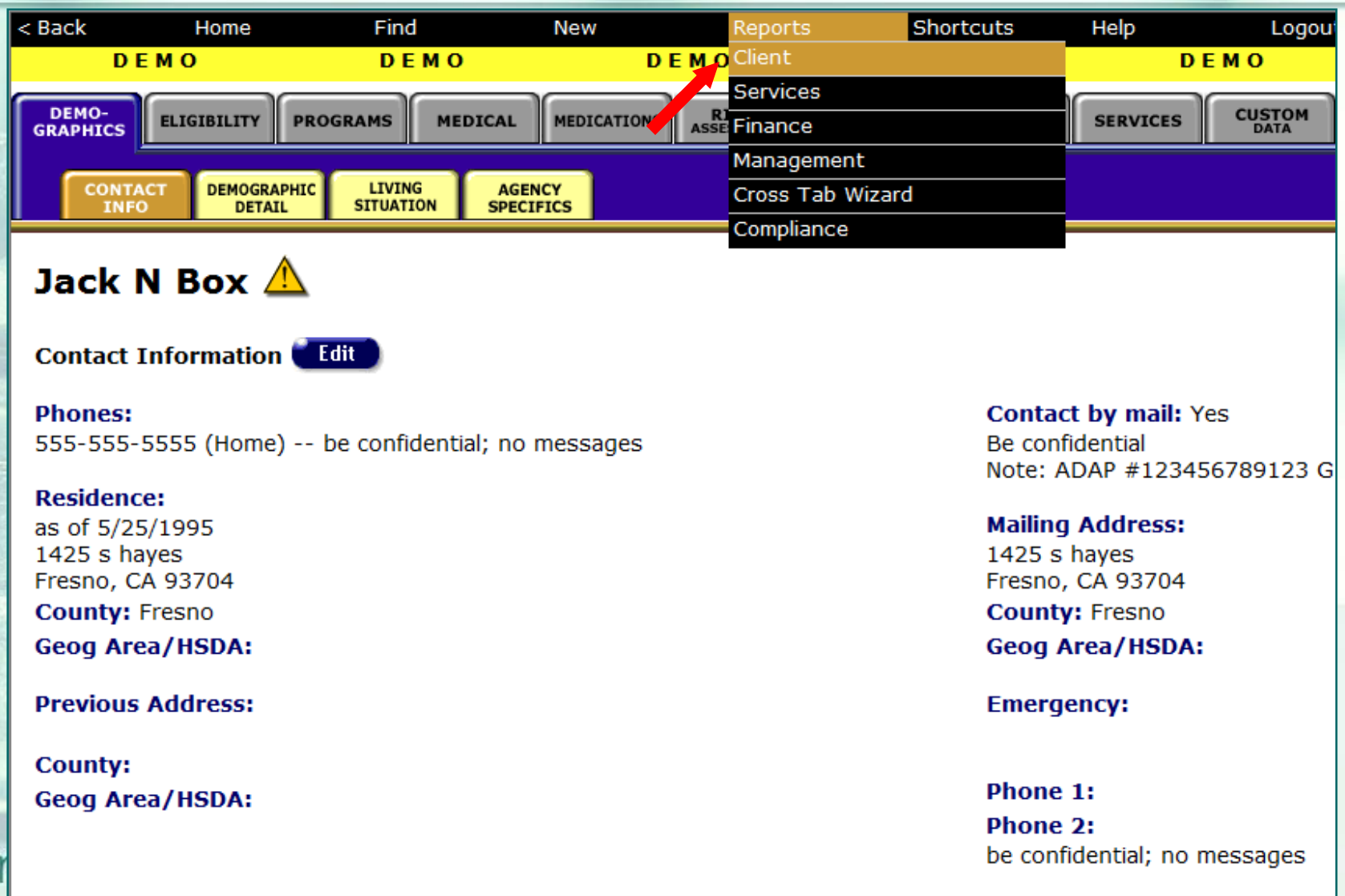
Two additional fields displayed for VL in Lab Batch Data Entry

VL Fields	Definitions
Identifier Drop-Down	Select the identifier to be associated with the data entered: Agency Client ID, Agency Program ID, or Extended URN.
Validation	If your entry includes errors, they will be displayed in red in the Validation column once you click the Save button. If you have made an error, you can correct them in the appropriate field and click Save again. Examples: 1. No client found with provided AgencyClientID; or 2. Multiple clients found with AgencyClientID provided

Running the Fix-It: Viral Load Report

- Some of your records may need attention. We have designed a report that will help you find records in your agency that need VL data corrected and/or updated

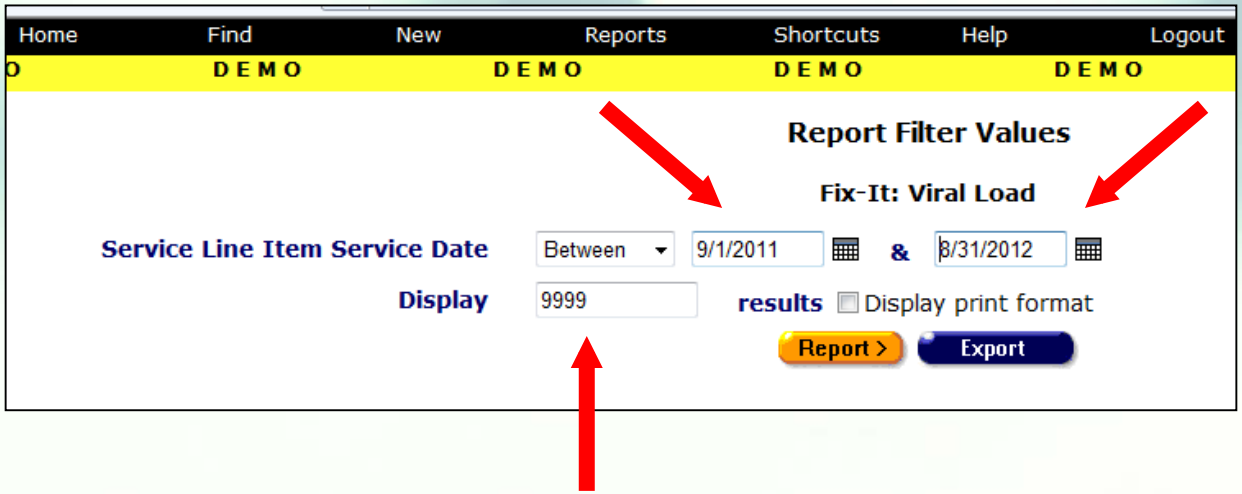
Running the Fix-It: VL Report: Go to Reports and select the Client menu.



…The Fix-It: Viral Load report is located toward the bottom of the Client Report page…

Client Name and Primary Staff	Lists clients in alphabetical order with the client's primary staff person. For Display Order filter, select "=" from the dropdown, then enter "1" in the first criteria field.
Fix-It: CD4	Lists clients served within a date range and any problems with CD4 tests
Fix-It: Viral Load	Lists clients served within a date range and any problems with Viral Load tests
Fix-It: HOPWA	Lists clients served within a date range and any problems with HOPWA data
Fix-It: PCP Prophylaxis	Lists clients served within a date range and any problems with PCP Prophylaxis

…Enter the date(s) to filter and the *Display* value. Make sure that the end date is the date you're actually running the report (or close to it). Click Report.



Sample Fix-It Viral Load report

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Fix-It: Viral Load

ARIES ID	Client	R/A	OAMC/MCWP	Errors
100046853	Lozano, Mary	false	Yes	QM WARNING - Only 1 Viral Load Test in Last Year,
100041656	Ramirez, Andrea	false	Yes	QM WARNING - Only 1 Viral Load Test in Last Year,
100047109	Primer, Paint F	false	Yes	No Viral Load Test in Last Year,
100045285	Puente, Jackie A	false	Yes	No Viral Load Test in Last Year,
100045277	Osmond, Marie	false	Yes	No Viral Load Test,
100045350	Holt, Jennifer	false	Yes	
100008291	Smith, Joseph X	false	Yes	
100047208	Zurutuza, Maria P	false	Yes	
100045541	Salazar, Judy G	false	No	QM WARNING - Only 1 Viral Load Test in Last Year,
100045491	Teveni, Irene M	false	No	QM WARNING - Only 1 Viral Load Test in Last Year,
100045848	Gonzalez, Eneida Y	false	No	No Viral Load Test in Last Year,
100042159	Allen, Lily Y	false	No	No Viral Load Test,
100004399	Berry, Laurel T	false	No	
100045640	Cruz, Robert	true	No	
100045434	Jeffery, Monique	true	No	

15 records, generated 9/10/2012 1:29:45 PM

Criteria: Service Line Item Service Date BETWEEN '9/1/2011' AND '8/31/2012'

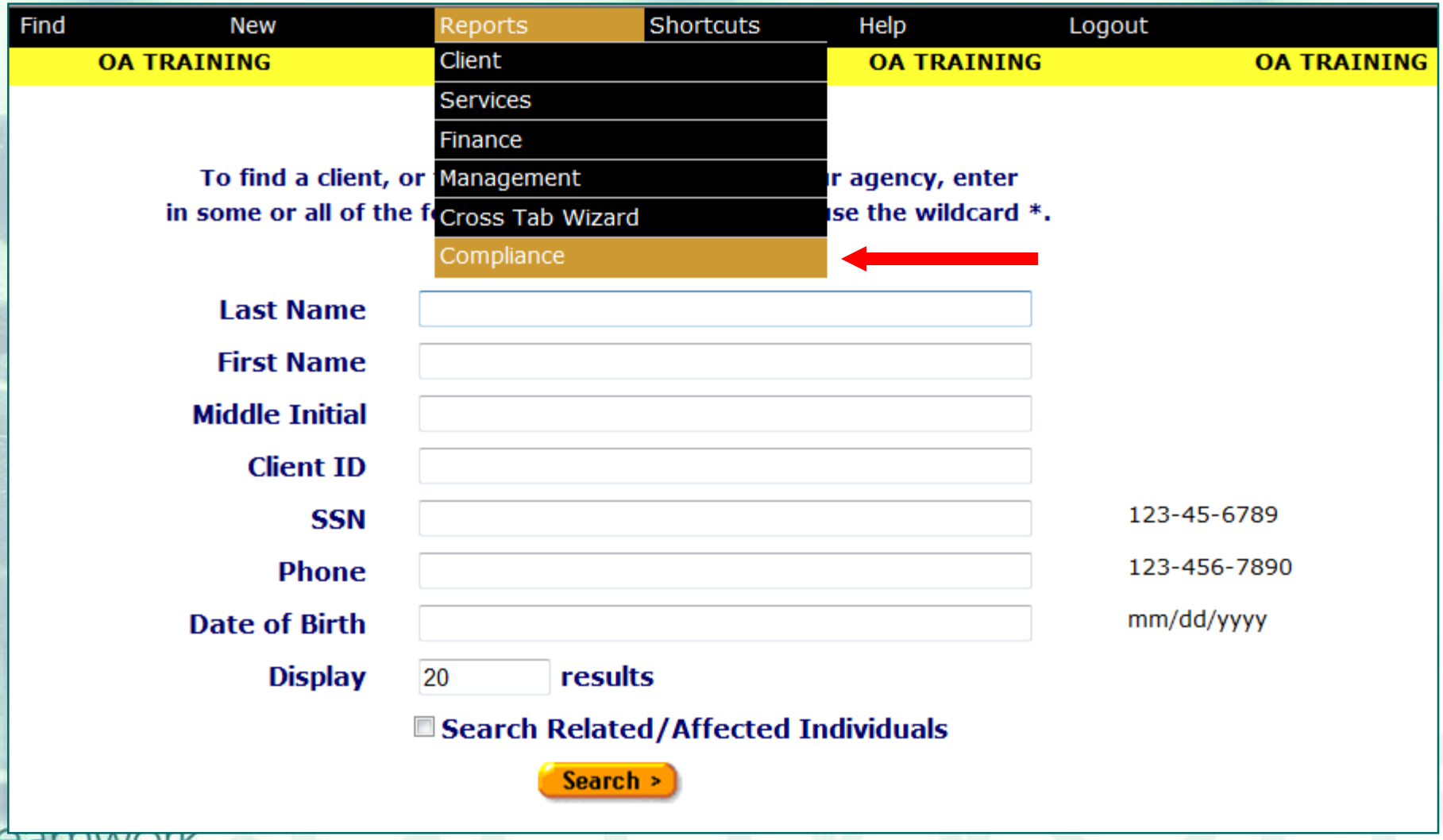
Export

PLEASE NOTE:
This slide contains fictitious client data from the ARIES demonstration site

Fix-It: Viral Load report Error Messages and Definitions

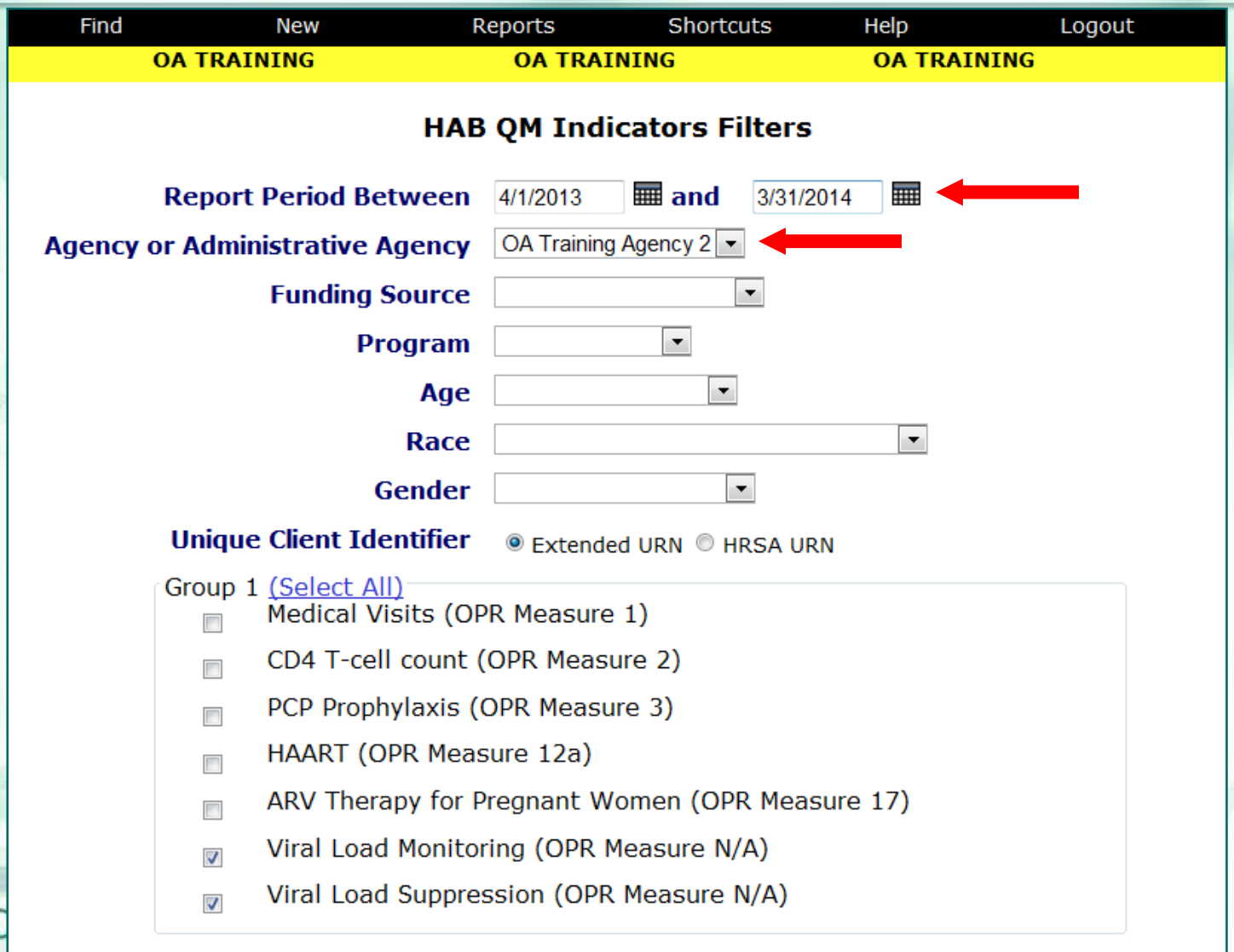
Error Message	Definition
No Viral Load Test	No Viral Load Tests have ever been entered for the client
No Viral Load Test in Last Year	Most recent Viral Load Test Date is more than 365 days from run date of report
QM WARNING - Only 1 Viral Load Test in Last Year	Only one Viral Load Test was found in the 365 days prior to the run date of the report
QM WARNING - Viral Load Tests less than 180 Days Apart	Multiple Viral Load Tests exist in the 365 days prior to the run date of the report, but the oldest and newest were less than 180 days apart

Running QM Reports for VL: Click on Reports and then Compliance…

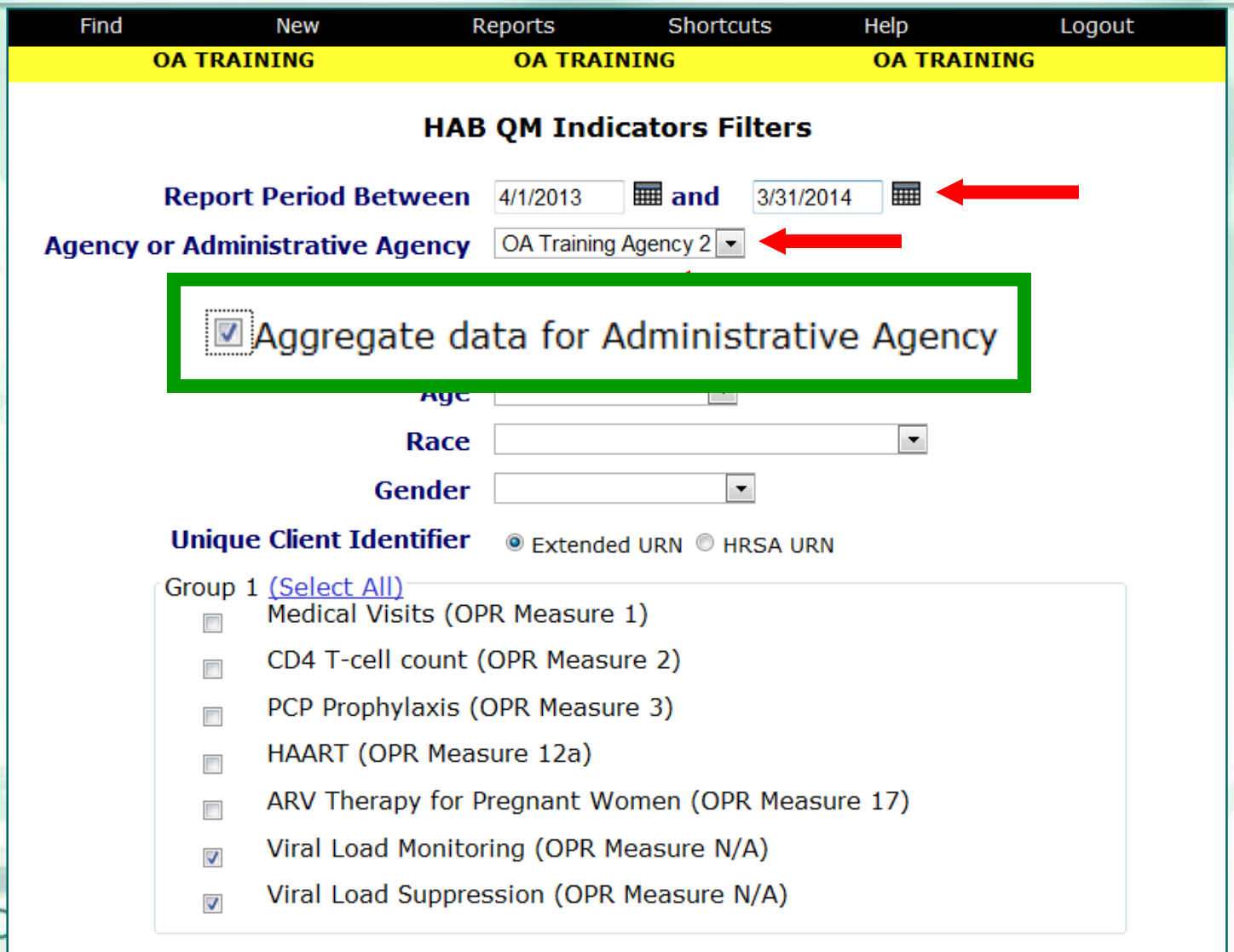


...Click on the HAB QM Indicators Report link…

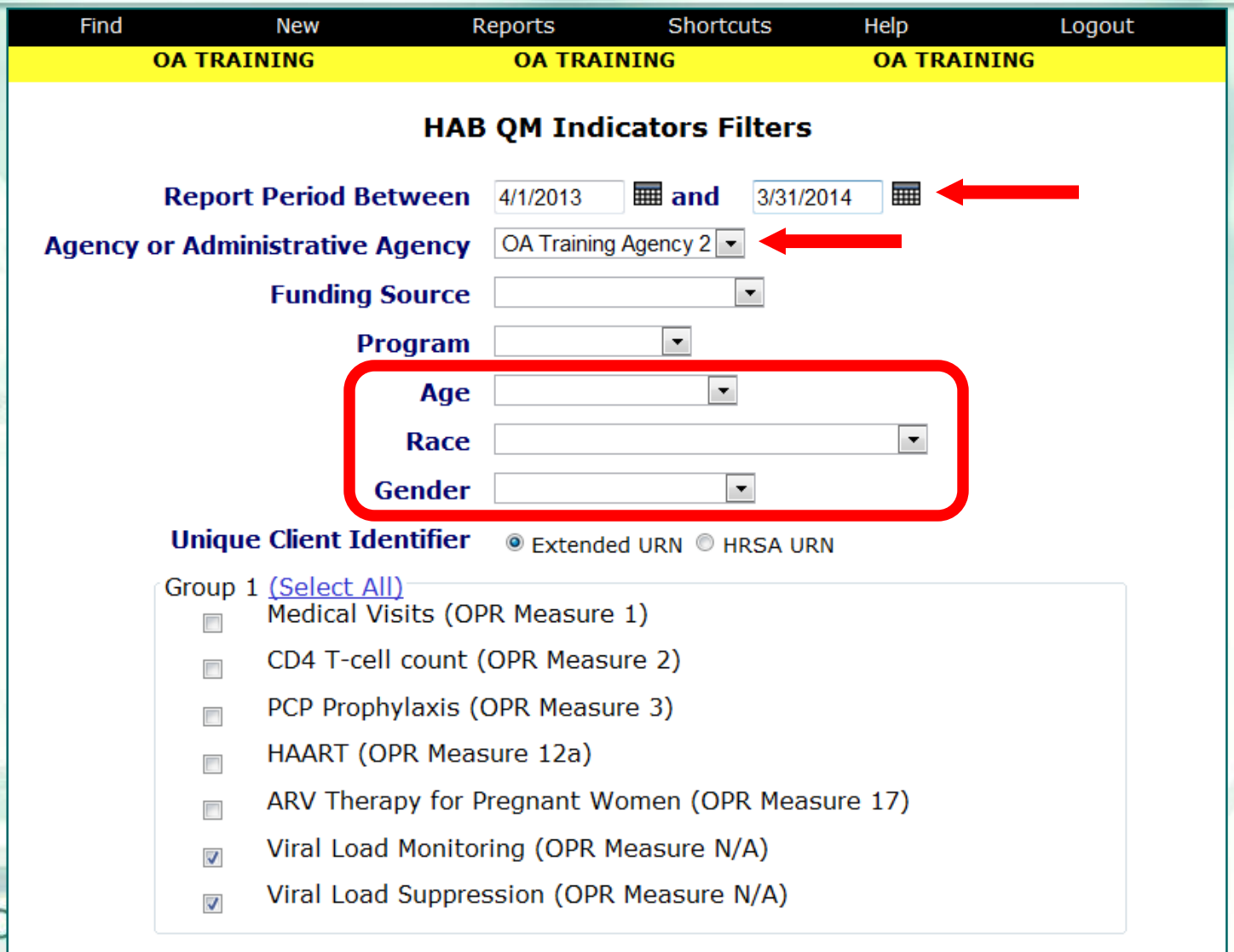
...Set the filters for your report, including a reporting period date range…



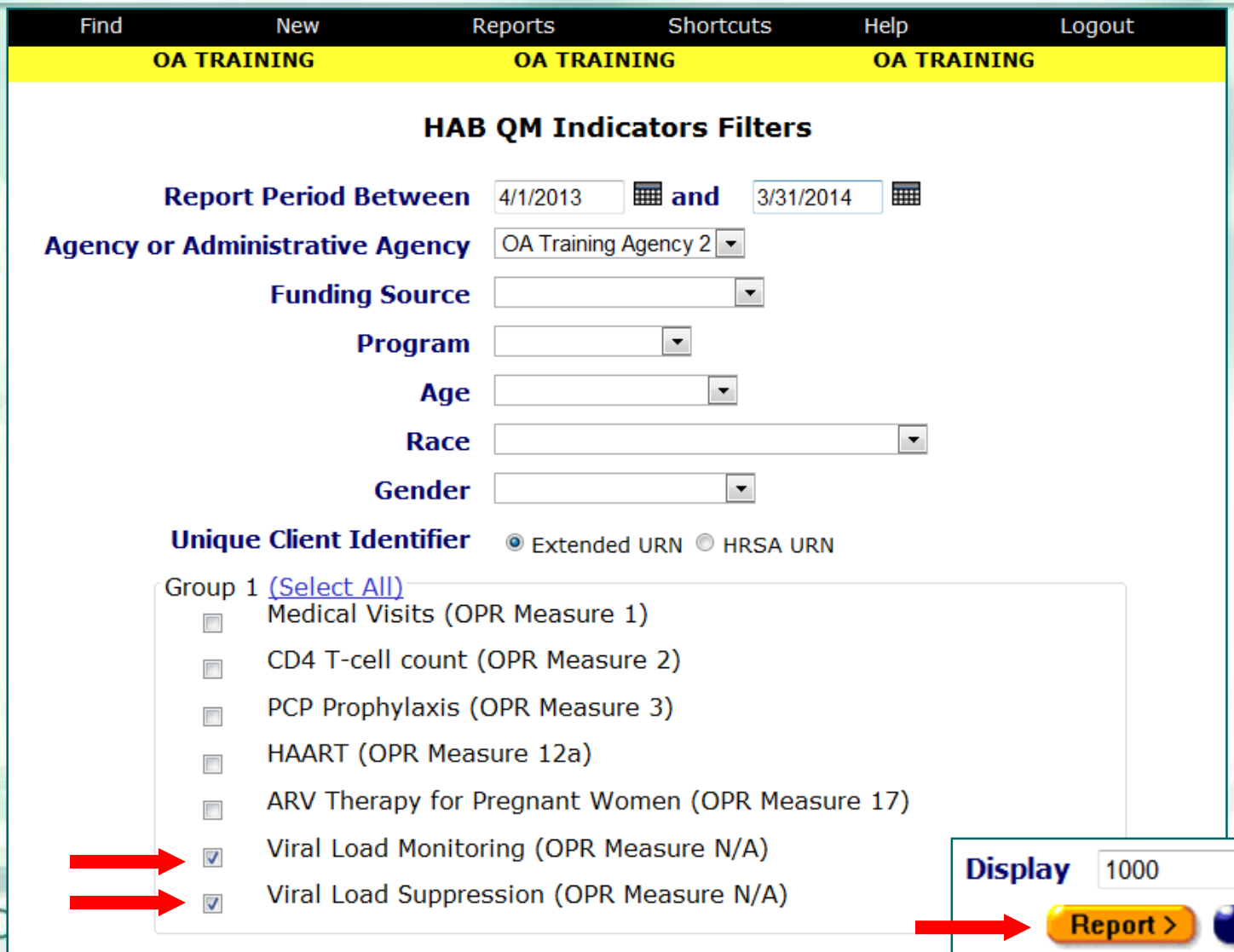
…NOTE: If you're running this report from an Administrative Agency, you'll be able to aggregate client data for all agencies you oversee. This checkbox would appear below the "Agency or Administrative Agency" field…



...You can also filter on clients' Age, Race, and Gender…



…Be sure to select the VL Monitoring and/or Suppression check boxes. Click Report at the bottom of the screen…



…ARIES generates a summary QM Report for both VL measures…

HAB QM Indicators

QM Indicator	Numerator / Denominator	Percentage	
Viral Load Monitoring (OPR Measure N/A): Percentage of patients, regardless of age, with a diagnosis of HIV/AIDS with a viral load test performed at least every six months during the measurement year	1,323 / 2,314	57.17%	QM Client Follow-Up
Viral Load Suppression (OPR Measure N/A): Percentage of patients, regardless of age, with a diagnosis of HIV/AIDS with viral load below limits of quantification at last test during the measurement year	1,748 / 1,902	91.90%	QM Client Follow-Up

…To run QM Client Follow-up reports, click on "QM Client Follow-Up"…

HAB QM Indicators

QM Indicator	Numerator / Denominator	Percentage	
Viral Load Monitoring (OPR Measure N/A): Percentage of patients, regardless of age, with a diagnosis of HIV/AIDS with a viral load test performed at least every six months during the measurement year	1,323 / 2,314	57.17%	QM Client Follow-Up
Viral Load Suppression (OPR Measure N/A): Percentage of patients, regardless of age, with a diagnosis of HIV/AIDS with viral load below limits of quantification at last test during the measurement year	1,748 / 1,902	91.90%	QM Client Follow-Up

...ARIES generates a line-listing of clients who have not met the particular measure, by Name, Age, Race, Gender, Share Status, and Staff.

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QM Client Follow-Up, HAB QM Indicators

Viral Load Monitoring (OPR Measure N/A): Percentage of patients, regardless of age, with a diagnosis of HIV/AIDS without a viral load test performed at least every six months during the measurement year

Client	Age	Race	Gender	Share	Staff

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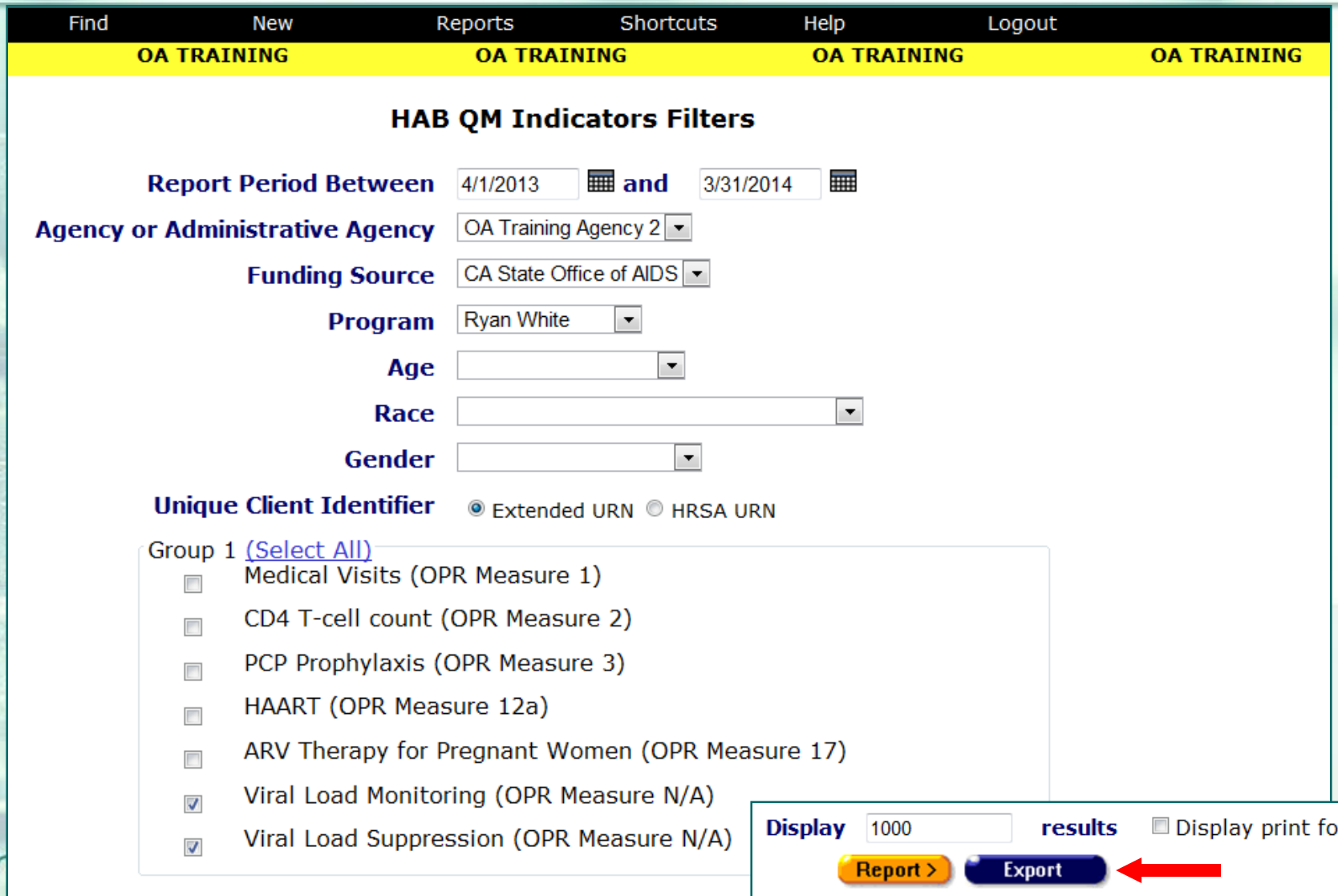
QM Client Follow-Up, HAB QM Indicators

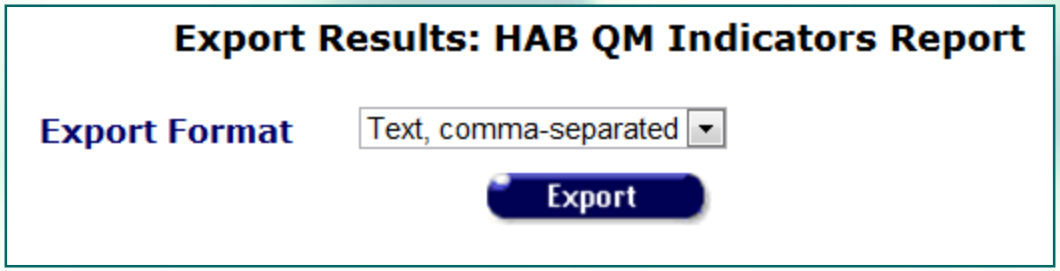
Viral Load Suppression (OPR Measure N/A): Percentage of patients, regardless of age, with a diagnosis of HIV/AIDS with viral load above limits of quantification at last test during the measurement year

Client	Age	Race	Gender	Share	Staff

Running detailed QM VL follow-up reports:
From the Report Filters page, click Export…



…Select the format you want (XML; text, comma-separated; and text, tab-separated). Then click Export…



...ARIES will provide download links for each QM report in the format you selected.

...ARIES will provide download links for each QM report in the format you selected.

IMPORTANT:

Please download these files to secure, protected locations!!!

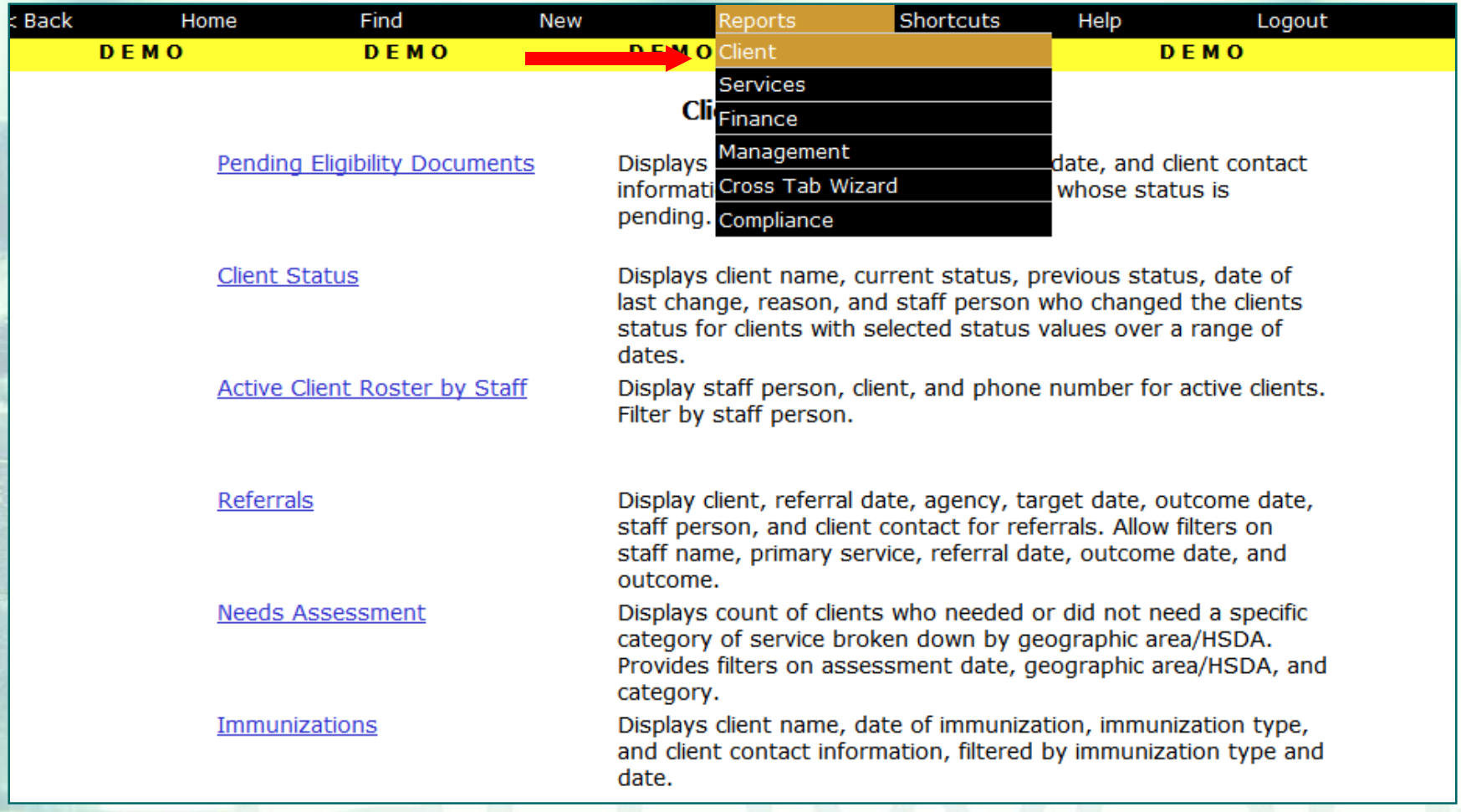
Detailed QM VL follow-up report via Export

- Variables include:
  - Client Unique Record Number
  - Report Period Start Date
  - Report Period End Date
  - In Numerator (QM Measure Met)
  - Age
  - Gender
  - County of Residence
  - Zip of Residence
  - Race
  - Primary Language
  - Sexual Orientation
  - Education
  - Veteran
  - Education Level
  - Living Situation
  - Enrollment Date
  - Employment Status
  - Household Poverty Level
  - Visit Date 1
  - Visit Date 2
  - Staff person
  - VL Date 1
  - VL Date 2

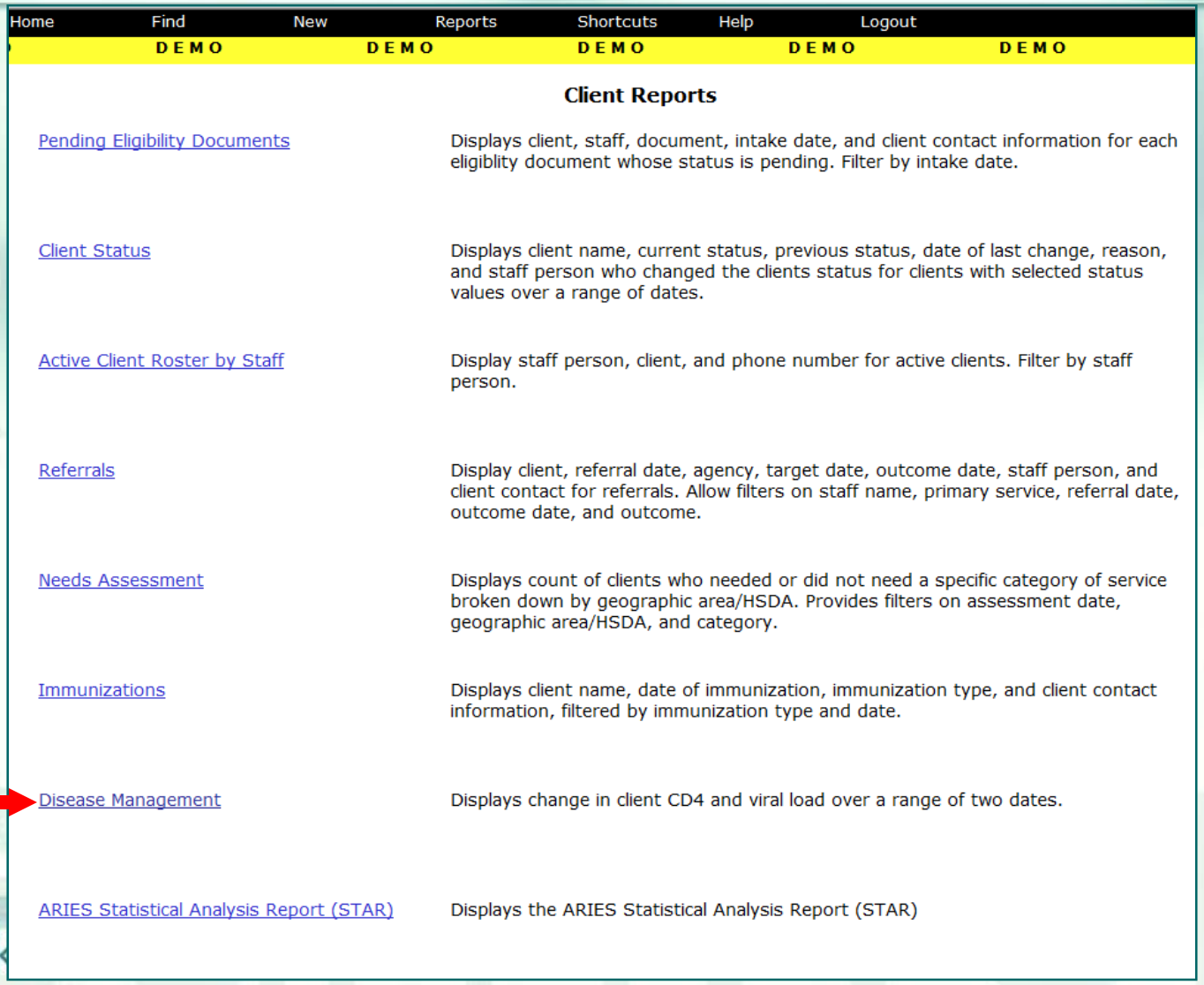
Disease Management Report

- The Disease Management Report allows providers to compare clients' VL (and CD4) test results over two time periods.
- This can give a broad view of your clients' progress at your agency.
- You can report on VL testing by entering initial and final testing dates. The report will include all clients who received testing within those two time spans. For example, you can compare the VLs of clients from two different years.

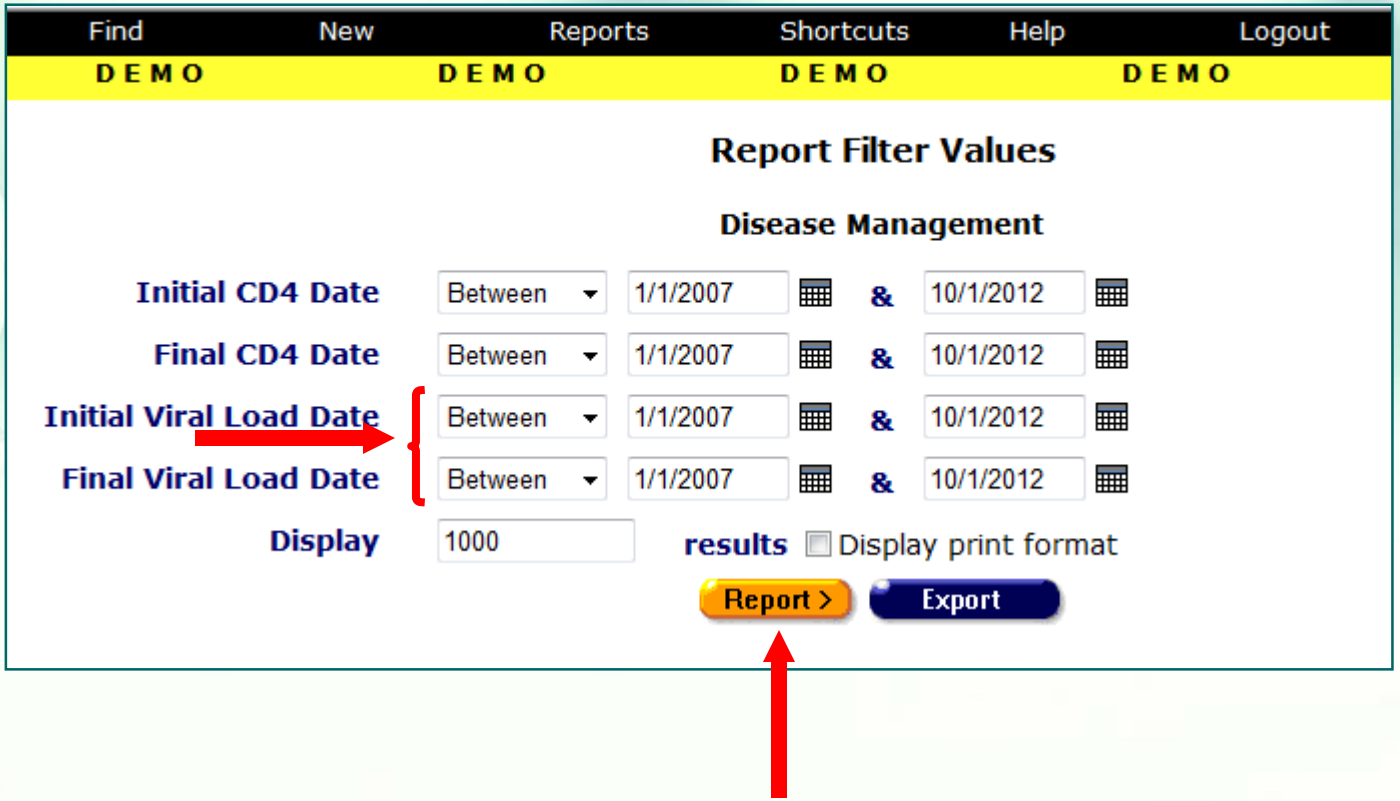
Running the Disease Management report: go to Reports and select the Client menu.



…Click on the “Disease Management” link…



…Enter a date range on the Report Filter Values page and click Report…



…ARIES lists rows of clients with their Gender, Race, and Staff assignments, along with the Initial VL Score and Date, the Final VL Score and Date, and the Change in percent.

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Disease Management

urnExtended	gender	Race, with Hispanic	Staff	CD4 Init	CD4 Init Date	CD4 Final	CD4 Final Date	CD4 Change	Viral Init	Viral Init Date	Viral Final	Viral Final Date	Viral Change
ARDL1126541FCL	Male	Hispanic or Latino (a)		0		0			10000	01/18/07	10000	01/18/07	same +/- 5%
GORK1217731SRK	Male	White (not Hispanic)		633	01/12/08	633	01/12/08	same +/- 5%	50	01/12/08	50	01/12/08	same +/- 5%
JCBX0514681NNM	Male	Hispanic or Latino (a)		640	05/29/07	500	05/30/07	decreased > 5%	80	05/29/07	80	05/30/07	same +/- 5%
JCFA0101011BIT	Male	White (not Hispanic)		100	01/01/12	100	01/01/12	same +/- 5%	999999	01/01/10	200	10/01/12	decreased > 5%
MCJH04128019CA	Male	Hispanic or Latino (a)		33	02/01/08	33	02/01/08	same +/- 5%	0		0		
MRYR0102592BSN	Female	Black or African American (not Hispanic)		60	08/04/09	60	08/04/09	same +/- 5%	0		0		
SEEW0623701XWB	Male	White (not Hispanic)	WebEx, CaseManager	444	07/25/07	529	09/27/07	increased > 5%	552964	03/13/07	445369	07/06/07	decreased > 5%
SLEW0701602XSM	Female	Hispanic or Latino (a)	WebEx, CaseManager	511	01/01/07	525	01/01/08	same +/- 5%	555555	01/01/07	444444	01/01/08	decreased > 5%
SMCI0101372XTT	Female	Hispanic or Latino (a)		777	10/29/07	321	10/11/10	decreased > 5%	2000000	05/21/08	9999999	10/10/08	increased > 5%
ZCAH0608581JSL	Male	More than one race		397	02/01/07	397	02/01/07	same +/- 5%	0		0		

10 records, generated 10/1/2012 2:35:56 PM

Criteria: Filter 1 BETWEEN '1/1/2007 12:00:00 AM' AND '10/1/2012 12:00:00 AM' AND Filter 2 BETWEEN '1/1/2007 12:00:00 AM' AND '10/1/2012 12:00:00 AM' AND Filter 3 BETWEEN '1/1/2007 12:00:00 AM' AND '10/1/2012 12:00:00 AM' AND Filter 4 BETWEEN '1/1/2007 12:00:00 AM' AND '10/1/2012 12:00:00 AM'

Export

Next Steps

- Please run the Fix-It: Viral Load report
- Look up the clients with error messages via their ARIES ID
- Resolve the error by looking in client's charts and/or assessments for the missing or inaccurate information
- Update ARIES accordingly
- Re-run Fix-it report to check corrections

Next Steps (cont.)

- After fixing client data with VL issues, run your QM VL reports
- Conduct QM client follow-ups as necessary
- Please make sure the Contact Info in ARIES is current—this appears on the Agency Info tab in ARIES

- This presentation will be posted soon to our ARIES website (projectaries.org)

Questions & Answers

- Do you have any questions?

- NOTE: If your line cannot be un-muted, leave your internet browser open, hang up your phone, and call back into the webinar
  - Call-in toll-free number (Verizon):1-877-475-4069 (US)
  - Attendee access code: 282 827 3

Additional Resources

- This presentation, as well as the CD4 FTA presentation, is posted in the Training section of www.projectaries.org
- The **ARIES User Manual** can be accessed by pressing the F1 button while in ARIES
- The ARIES Help Desk can be reached at **866-411-ARIES (2743)**

Thank you!

- Thank for participating! We hope that this has been a productive use of your time
- Together we can improve ARIES data quality!