OZ Systems

Making good decisions for children using our innovative technological solutions.

Drum roll please!

And some prizes

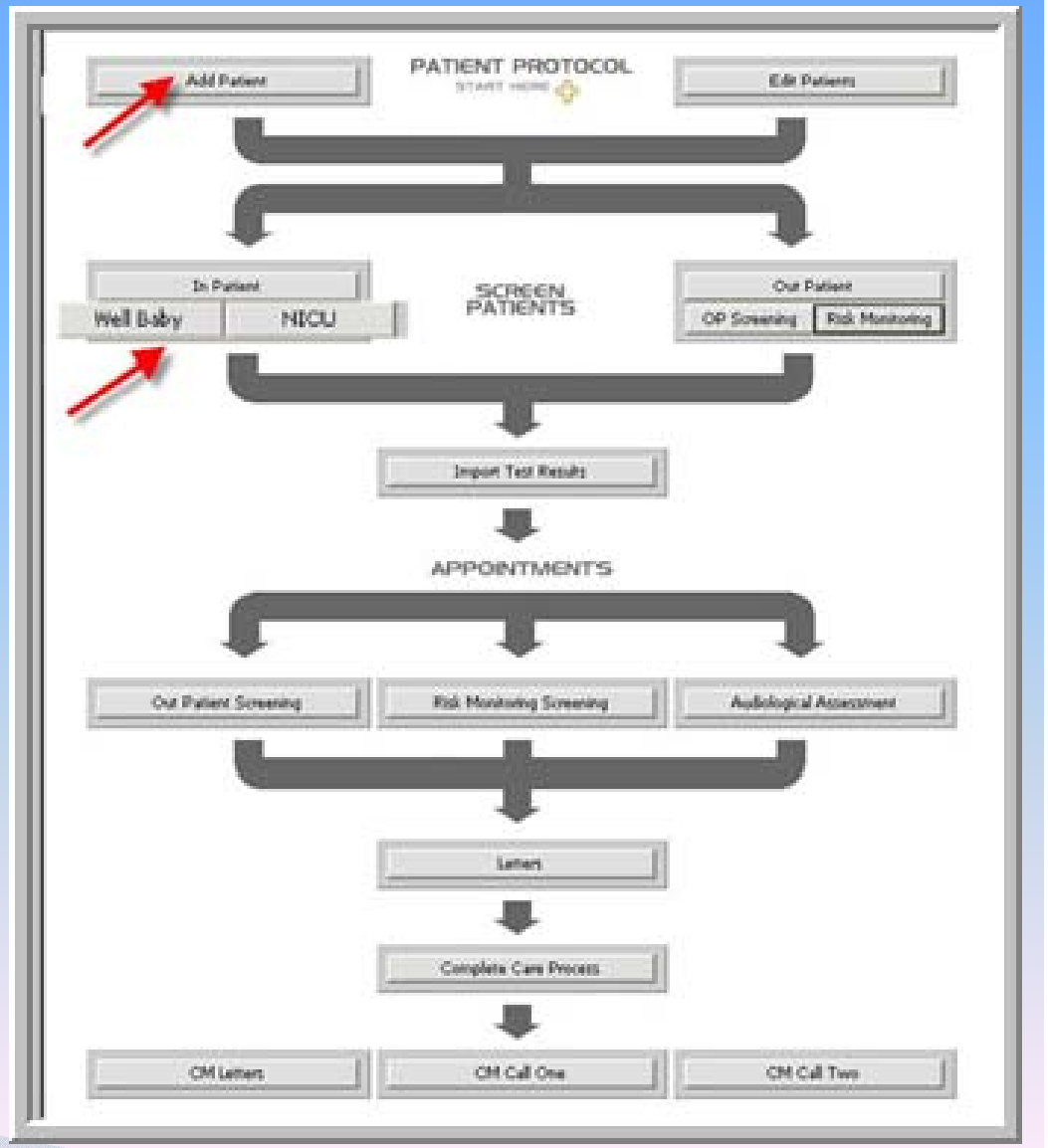
OZ Systems

eSP™ for State EHDI

Capacity Building through Verifiable Data

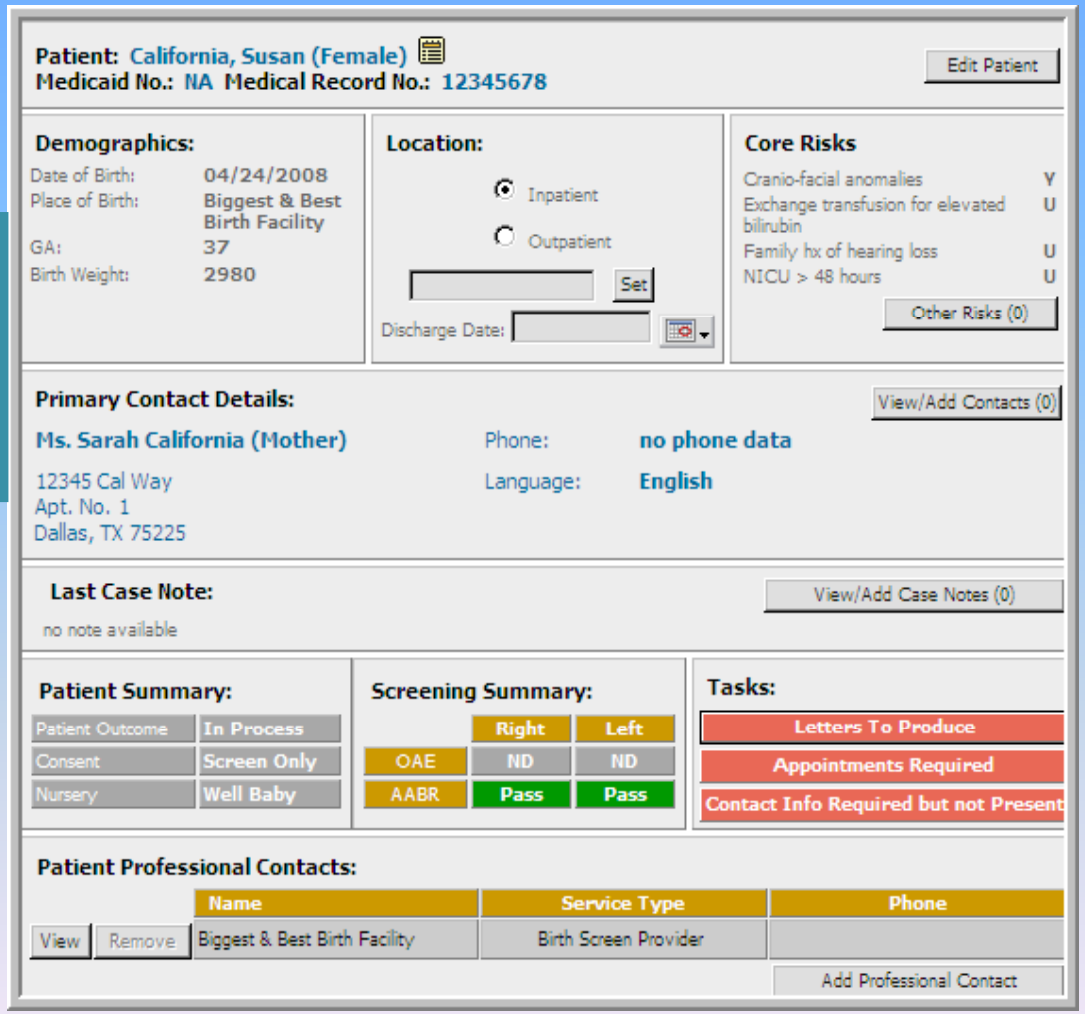
Verifiable Data with OZ eSP™

Daily Screening Protocol

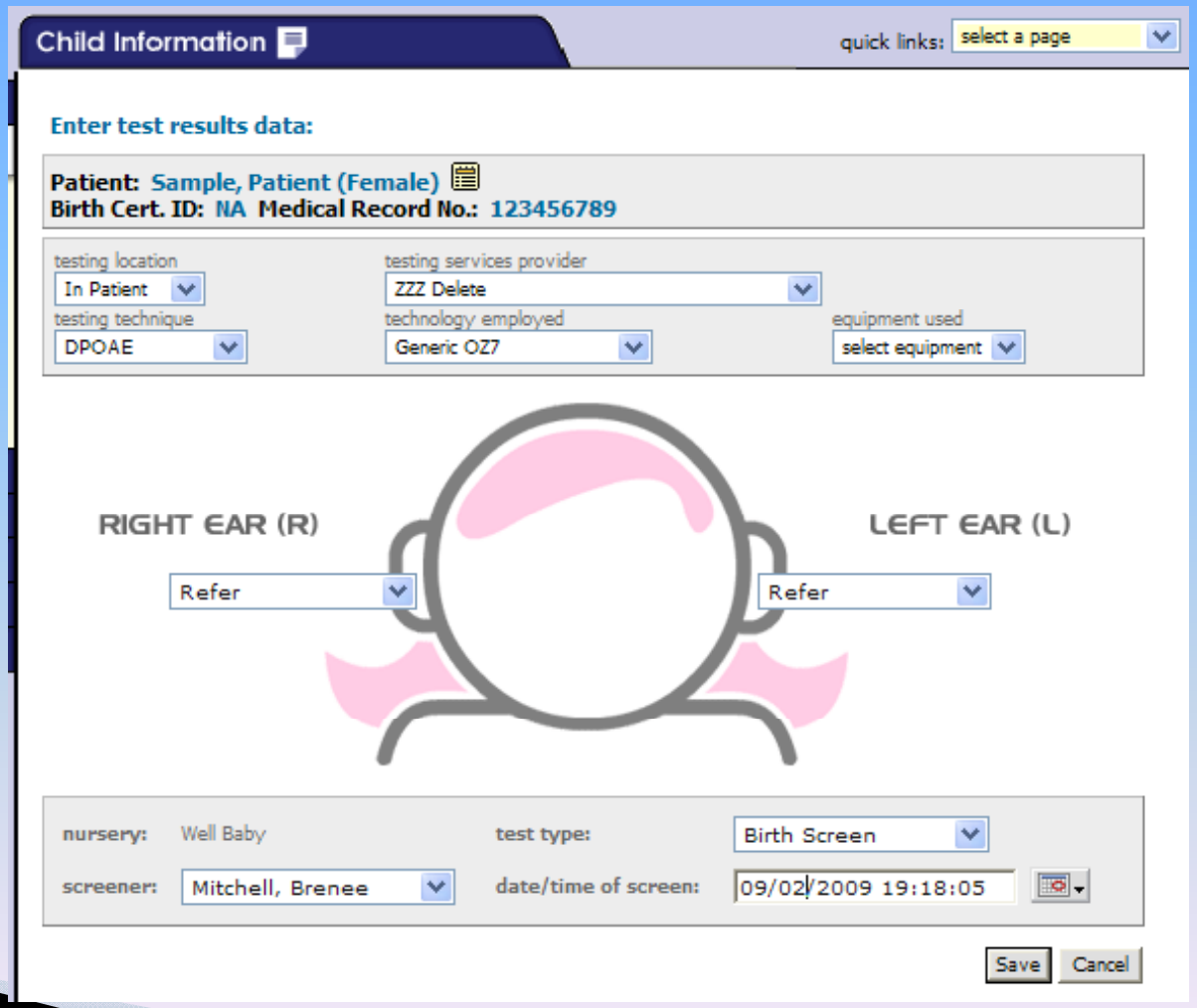


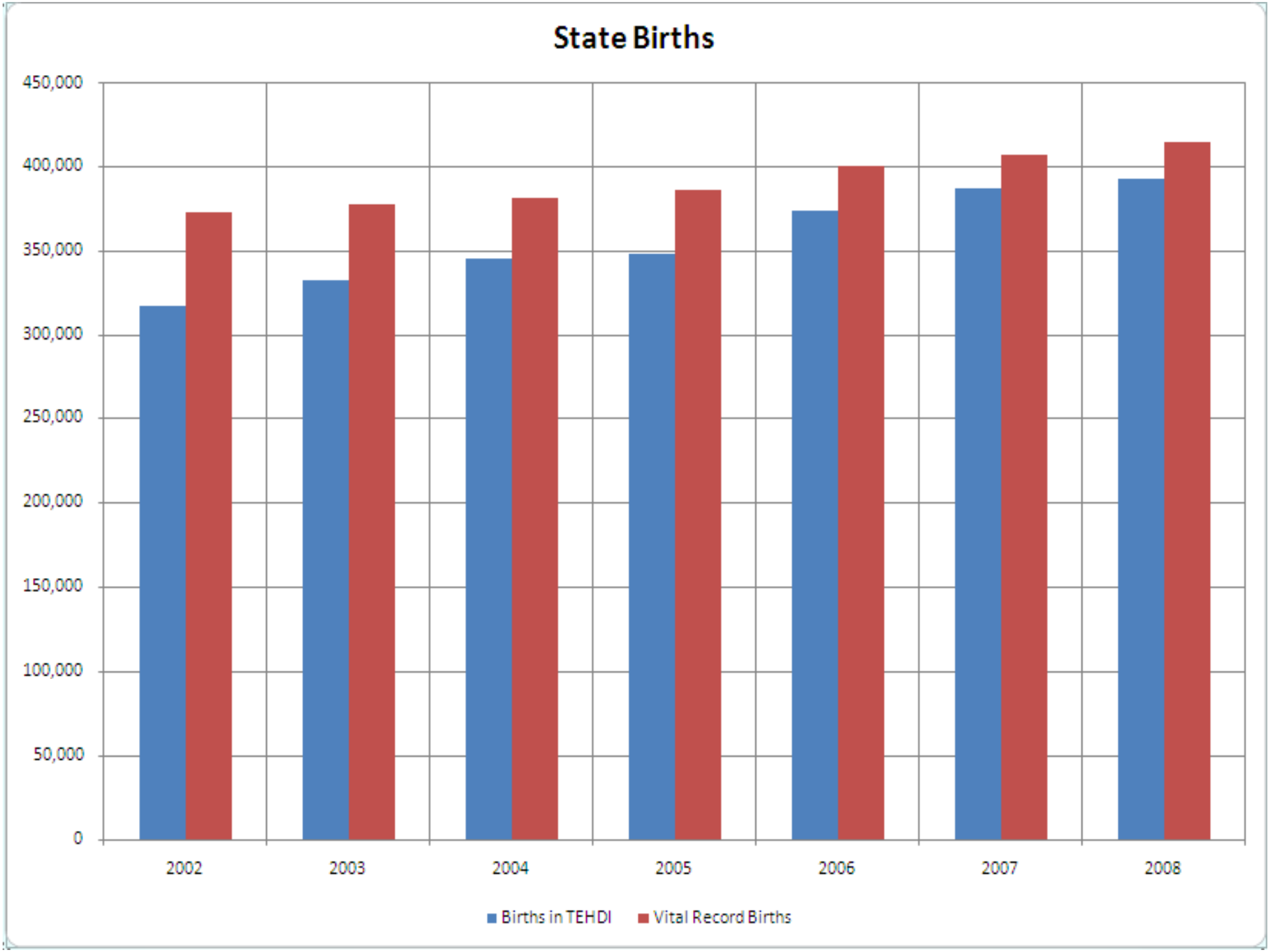
Verifiable Data with OZ eSP™

An individual child hearing record per CDC



eSP™ EHDI for verifiable data




State Births
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
2002
2003
2004
2005
2006
2007
2008
Births in TEHDI
Vital Record Births

Audiology Available Now!

Audiology Application

AUDIOLOGY CARE

PATIENTS NEEDING OP SCREENING OR DIAGNOSTICS

Appointments Needed		Appointments Pending		Past Due Appointments	
Screening	Diagnostics	Screening	Diagnostics	Screening	Diagnostics

PATIENTS NEEDING COMMUNICATIONS

Generate Letters

PATIENTS NEEDING REFERRALS

ECI	Otologic Evaluation	Habilitation

PATIENT SEARCH

Advanced Search

Current Synopsis | MileStones | Audiologic Assessments

Patient: Sample, Patient (Female)
Medicaid No.: NA **Medical Record No.:** 123456789

Date of Assessment: 09/24/2009 **Facility:** ZZZ Delete **Tested By:** Mitchell, Brenee (Mrs.) Edit

ABR | ASSR | OAE | Tympanometry | BOA | VRA | Play | Puretone | Synopsis

Stimulus	Frequency (Hz)						
	Click	500	1,000	2,000	3,000	4,000	
Right Ear (◉ Insert ○ Headphone)	O Unmasked <= 45	O Unmasked <= 30	O Unmasked <=	O Unmasked <=	O Unmasked <= 60	O Unmasked <=	Reset
Left Ear (◉ Insert ○ Headphone)	X Unmasked <= 45	X Unmasked <= 30	X Unmasked <=	X Unmasked <=	X Unmasked <= 65	X Unmasked <=	Reset
Right Ear Bone	< Unmasked <=	< Unmasked <=	< Unmasked <=	< Unmasked <=	< Unmasked <=	< Unmasked <=	Reset
Left Ear Bone	> Unmasked <=	> Unmasked <=	> Unmasked <=	> Unmasked <=	> Unmasked <=	> Unmasked <=	Reset

Save | Save & Return to Summary | Cancel

Audiology

Current Synopsis | MileStones | Audiologic Assessments

Patient: Sample, Patient (Female)
Medicaid No.: NA **Medical Record No.:** 123456789

Date of Assessment: 09/24/2009 **Facility:** ZZZ Delete **Tested By:** Mitchell, Brenee (Mrs.) Edit

ABR | ASSR | OAE | Tympanometry | BOA | VRA | Play | Puretone | Synopsis

Date of Assessment: 09/24/2009 **Facility:** ZZZ Delete **Tested By:** Mitchell, Brenee (Mrs.)

Right Ear:

Type of Hearing Loss: Please Select
Degree of PHI:

- Please Select
- Not Yet Determined
- Auditory Neuropathy
- Sensorineural
- Conductive
- Mixed
- Within Normal Limits

Left Ear:

Type of Hearing Loss: Sensorineural
Degree of PHI: Please Select

- Please Select
- Slight
- Mild
- Moderate
- Moderate Severe
- Severe
- Profound

Recommendations:

Notes: Testing was performed during natural sleep.

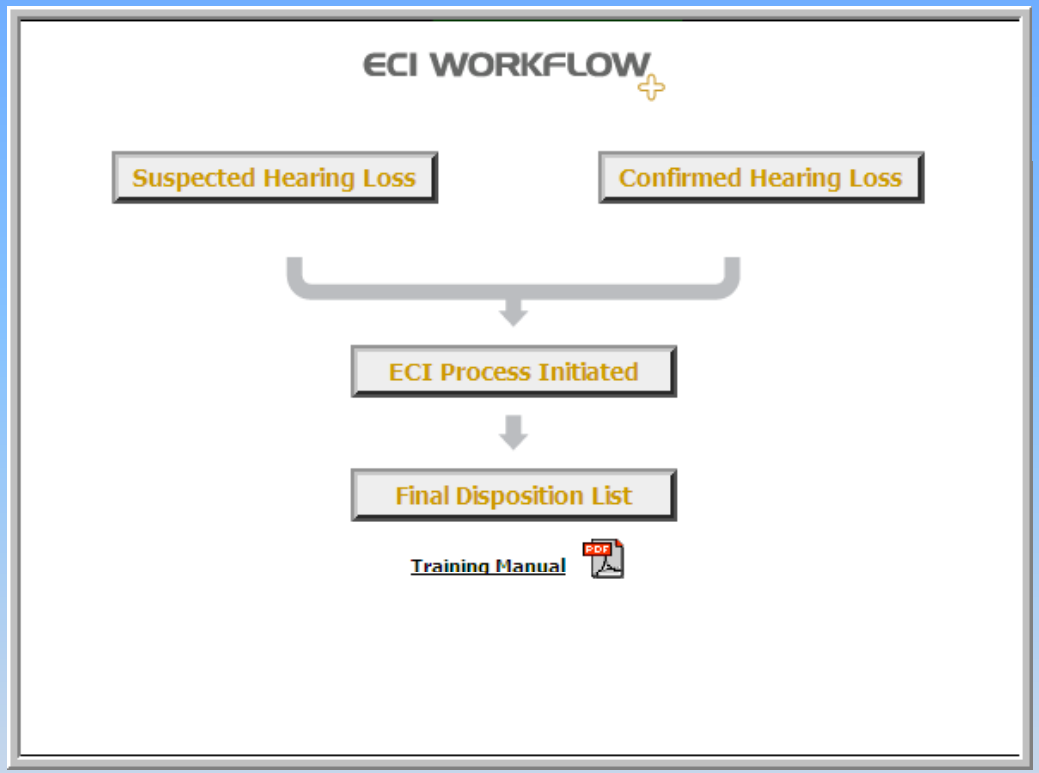
☑ **Use this Session to determine Audiological Outcome.**

Save & Close | Save & Return to Summary | Cancel

Audiology Access

- EHDI staff enters outpatient screening or audiology results
- Audiologists enter outpatient screening or their own diagnostic results on a baby online
- Statistical reporting and aging analysis to measure your state against CDC goal of Diagnosis by 3 months

Available now!

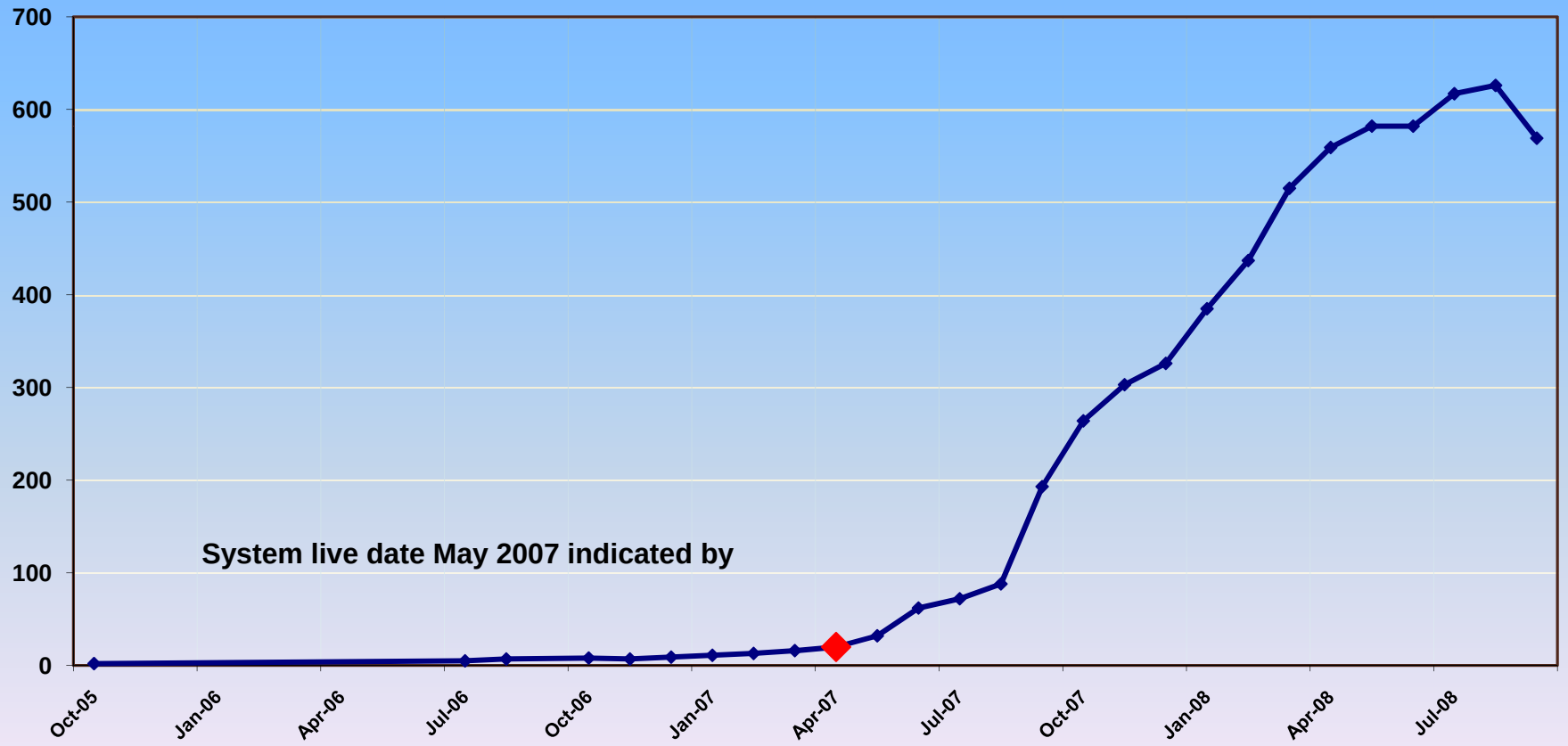


E I Application

Refer electronically to Part C

Part C Referrals through TEHDI

Trailing 12 months



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Early Intervention Referral

- EHDI staff or Audiologist refer baby electronically through eSP™ EI
- Select the “correct” EI provider by zip code or county
- Statistical reporting and aging analysis to measure your state against CDC goal of Intervention by 6 months

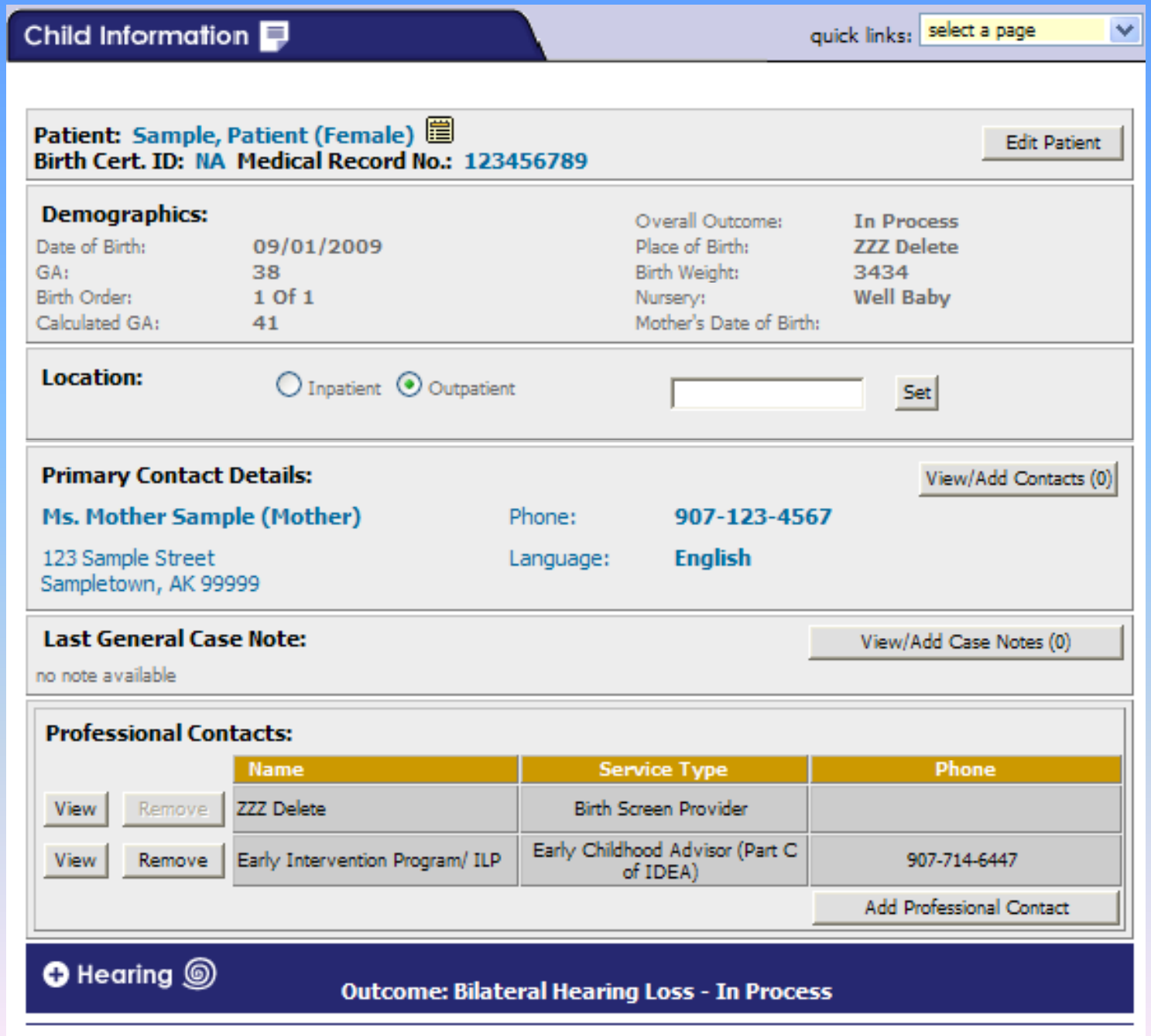
Available now!

Provider Access Tool (PAT)

Medical Home Access

- Links to your eSP™ EHDI – IS
- Can be configured for other databases
- Displays screening results JIT information

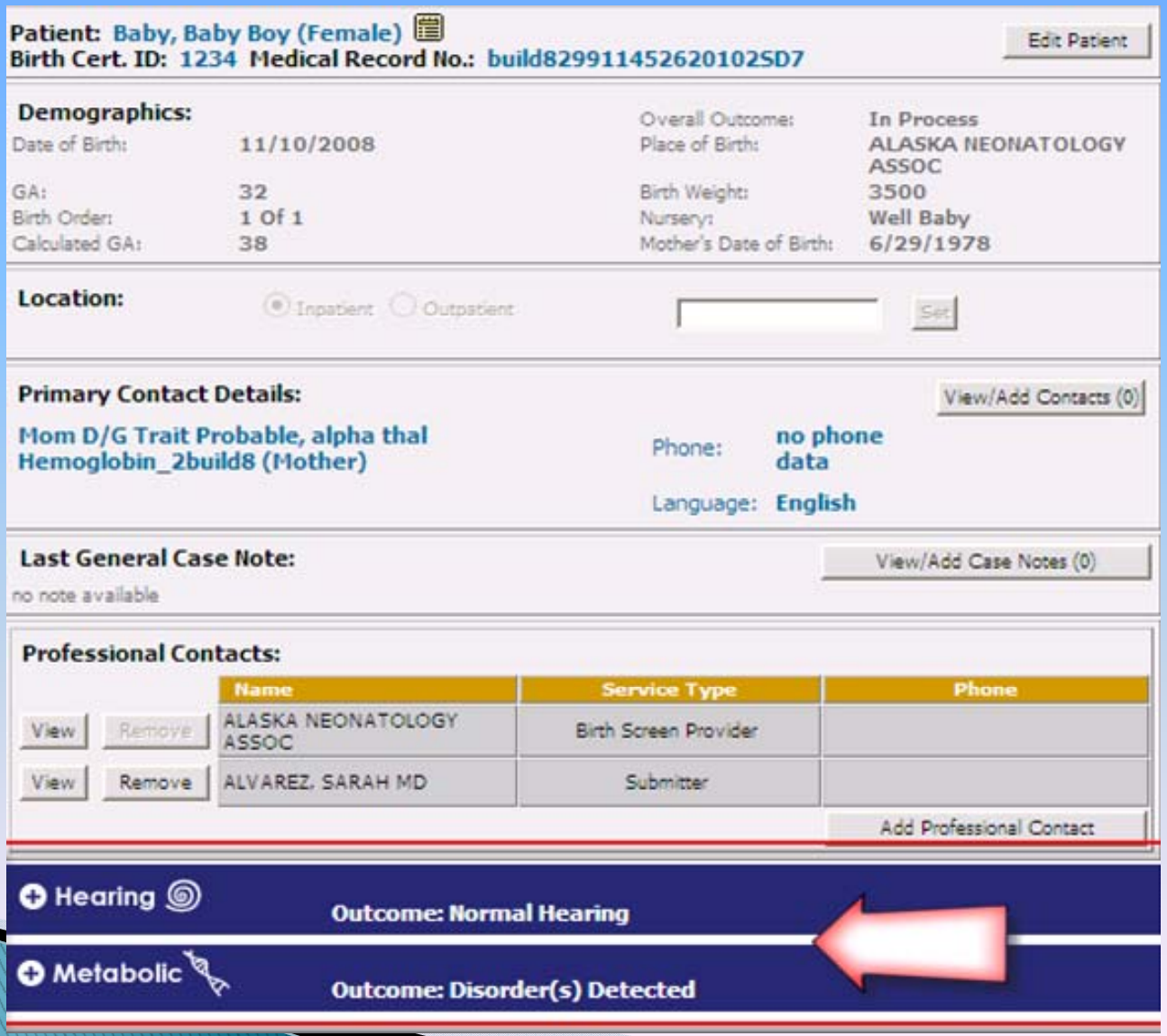
eSP™ Available for Border Babies


Child Information
quick links: select a page
Patient: Sample, Patient (Female)
Birth Cert. ID: NA Medical Record No.: 123456789
Edit Patient
Demographics:
Date of Birth: 09/01/2009
GA: 38
Birth Order: 1 Of 1
Calculated GA: 41
Overall Outcome: In Process
Place of Birth: ZZZ Delete
Birth Weight: 3434
Nursery: Well Baby
Mother's Date of Birth:
Location:
Inpatient
Outpatient
Set
Primary Contact Details:
View/Add Contacts (0)
Ms. Mother Sample (Mother)
123 Sample Street
Sampletown, AK 99999
Phone: 907-123-4567
Language: English
Last General Case Note:
View/Add Case Notes (0)
no note available
Professional Contacts:
Name
Service Type
Phone
View
Remove
ZZZ Delete
Birth Screen Provider
View
Remove
Early Intervention Program/ ILP
Early Childhood Advisor (Part C of IDEA)
907-714-6447
Add Professional Contact
Hearing
Outcome: Bilateral Hearing Loss - In Process

OZ Systems

- Capacity building thru Integrated Systems

Available Now eSP™ Integrated Systems



Available now: Integrated EHDI and NBS Programs

Child Information

quick links: select a page

Patient: Testing, Sample (Male)
Birth Cert. ID: NA **Medical Record No.:** jc-107

Metabolic and Genetic Specimen

Patient Information:

Date of Birth:	9/19/2007	Time of Birth:	12:43 PM	Race:	Black
Birth Weight:	3333 g	Birth Order:	1 of 1	Ethnicity (Hispanic):	No

PCP/Medical Home Information:

Send Report to PCP/Medical Home:
Address:
Doctor's Code:
Telephone Number:

Submitter Information:

Name: NEYHART, JOY DO
Code: AK3390
Address: 3268 HOSPITAL DR STE D JUNEAU AK 998017800

Hospital Information:

Name: ZZZ THALIA TEST FAC
Code: AKJOHN
Address: 2112 THALIA STREET JUNEAU AK 99801
Telephone Number:

Mother's Information:

Name: ROSE, MOTHER
Date of Birth: 4/5/1985
Address: ANCHORAGE, AK 11111
Telephone Number:

Lab Information:

Card Specimen Type:	1st Specimen	Lab Specimen Type:	1st Specimen
Kit Number:	051106324	Accession (lab) number:	20071840192

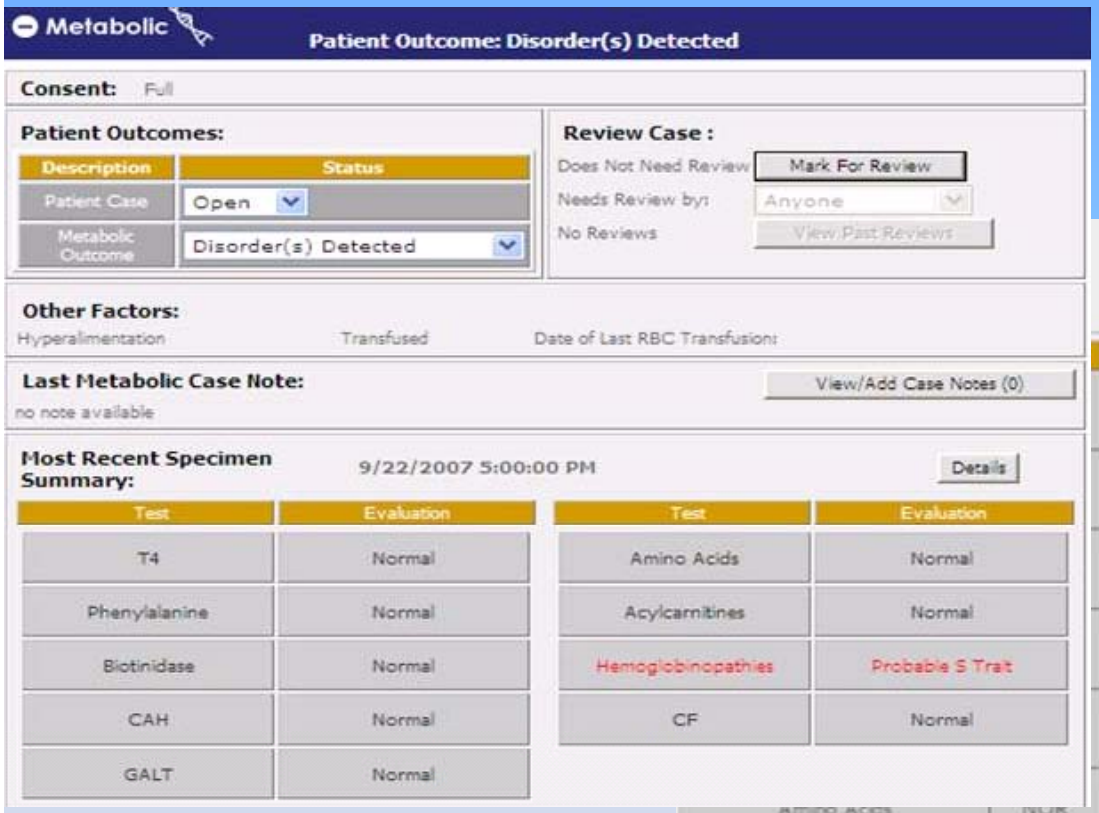
Specimen Information:

Date and Time of Specimen Collected:	9/22/2007 5:00:00 PM	Specimen Status:	Disorder(s) Detected
Age at specimen collection:	12 Hour(s)	Present Weight:	4025 (g)
		Transit Time:	0 Hour(s)

Other Factors:

Food source last 24 hours: other not specified
Hyperalimentation:
Transfusion:
Date of Last RBC Transfusion:

Available now: Integrated EHDI and NBS Programs



We can help

- Automatic Import for Demographic Data (AIDD)
  - HL 7 messaging
  - Configuration File
- Lab messages imports
- Real time access through web-services and well-tested web-based systems

Compare

- Server hardware and
- Network hardware costs
- Network intensive
- Framework: Citrix application, client access licensing
- Needs Microsoft Terminal Services
- Delayed Data

CITRIX (Web-enabled)

- Immediate data access
- No delays – 3000 concurrent users
- No legal ownership problems
- Automatic updates
- Read and write access with permission driven rules

eSP™ Web-Based

OZ Systems

- Capacity Building through Program Support

Capacity Building through Program Management Support

MARYLAND EHDI ACHIEVMENTS 2008

ACHEIVEMENTS

1. 36,191 records of verifiable birth and screening data entered into eSP™ for 2008*.
2. Fully implemented eSP™ by August 1, 2008.
3. 37 birth hospitals were trained in Maryland from May –July 2008.
4. 85 hospital screeners and staff representing all MD birth facilities and State staff attended eSP™ trainings.
5. Provided monthly feedback to hospitals on their performance in newborn hearing screening metrics.
6. Identified programs that met distinguished standards in providing newborn hearing screening care.
7. State Averages for 2008 met *Standard* or *Distinguished* criteria for four out of five compliance metrics.

2008 State Average Compliance Metrics		
% Screened	95.7%	Standard
% Pass Both	95.8%	Distinguished
% of Referred or Missed with Contact Info	95.5%	Standard
% NICU records still In Process	7.2%	Distinguished

8. By the end of 2008, 68% of hospitals in Maryland were using the demographic import tool.
9. Audiologists at private facilities began using eSP™ to track and enter data beginning in November 2008.
    a. Web based training provided for 18 Audiologists in MD.
10. Increased ability to provide follow care for NICU and at risk populations from time of birth.

OZ SYSTEMS SUPPORT OF MDEHDI

1. OZ Systems has equipped Emilio, a customer support specialist to train hospitals in demographic imports.
2. Monthly web meetings held to address user questions and communicate State reminders.
3. Web-based trainings available on demand.
4. Distribution of electronic and hard copy training materials to all hospital screeners in MD.
5. Distribution of electronic training materials for Audiologists.
6. Compliance reports provided on a monthly and annual basis.
7. OZ Program Coordinator presented at State EHDI meeting to highlight benefits of eSP™.

*This figure represents part of the birth cohort of 2008. Users began entering data in May 2008.

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OZ attends to standards so you can attend to babies

HHS.gov
Health Information Technology

AHIC; NeHC, ONC

HITSP enabling healthcare interoperability

Standards panel between public and private sectors for sharing information

IHE changing the way healthcare connects
www.ihe.net

Improving the way Health care Systems share information

Health Information Security and Privacy Collaboration (HISPC)

HL7 Health Level Seven

OZ Systems

- Capacity building through
- Verifiable data
- New Applications
- Program Support
- Disaster Recovery, Secure Hosting

How Safe and Secure are your EHDI data?

The Importance of Disaster Recovery

OZ Systems' Response

- Level IV Data Center: Texas
- A second Level IV Data Center: Arizona
- Eight redundant paths to the Internet
- Diverse connections including fiber, copper and microwave
- 99% uptime history

So how much does eSP™ cost?

working
wonders in
information
management℠