



4/13/2011

# Ulua'i Lagona- Helping Babies Hear Part 1

EHDI Conference 2011

Atlanta, GA

American Samoa





Ulua'i Lagona is administered by the  
American Samoa Government  
(ASG) Department of Health, Part  
C/Helping Hands Early Intervention  
Program

# Challenges



- **One full-time screener screening at LBJ & doing follow ups**
  - EI staff help w/screenings at LBJ.
  - Limits birth admission screening (BAS) to 1x/day
  - Resulting in higher BAS 'Refer' rates
  - Higher follow up rates
- **Audiologist contract delays.**
  - No audiological evaluations for over a year.
- **Transportation issues - follow-up screens are dependent on availability of Part C program vehicles or when visits can be coordinated.**
- **Still no screening room at LBJ.**



# Successes

- Positive collaboration w/nursery staff
- Screenings continue at LBJ nursery
- Hearing Results printed on Immunization card





## Looking ahead...

- Nursery renovations to include separate hearing screening room.
- Currently hired part-time screeners
- SILAS went live February 2<sup>nd</sup>, 2011
- Further collaboration with Public Health Clinics for lost to f/u
- Partnership w/University of Hawaii-CDS





## EHDI Data – Part I

	2010		2009	
<b>Live Births</b>	<b>1194</b>		<b>1375</b>	
<b>Birth Admission Screens</b>	<b>1129</b>	<b>95%</b>	<b>1240</b>	<b>90%</b>
<b>Not Screened at birth</b>	<b>65</b>	<b>5%</b>	<b>135</b>	<b>10%</b>
<b>Birth Admission Screens</b>	<b>1133</b>		<b>1240</b>	
<b>Infants that PASS</b>	<b>864</b>	<b>77%</b>	<b>971</b>	<b>78%</b>
<b>Infants that REFER</b>	<b>265</b>	<b>23%</b>	<b>269</b>	<b>22%</b>

	2010		2009	
<b>Potential out patient rescreens</b>	<b>265</b>		<b>269</b>	
<b>Received re-screen</b>			<b>102</b>	<b>38%</b>
<b>NOT re-screened</b>			<b>167</b>	<b>62%</b>
<b>Re-screens</b>			<b>102</b>	
<b>Infants that PASS</b>			<b>95</b>	<b>93%</b>
<b>Infants that REFER</b>			<b>7</b>	<b>7%</b>



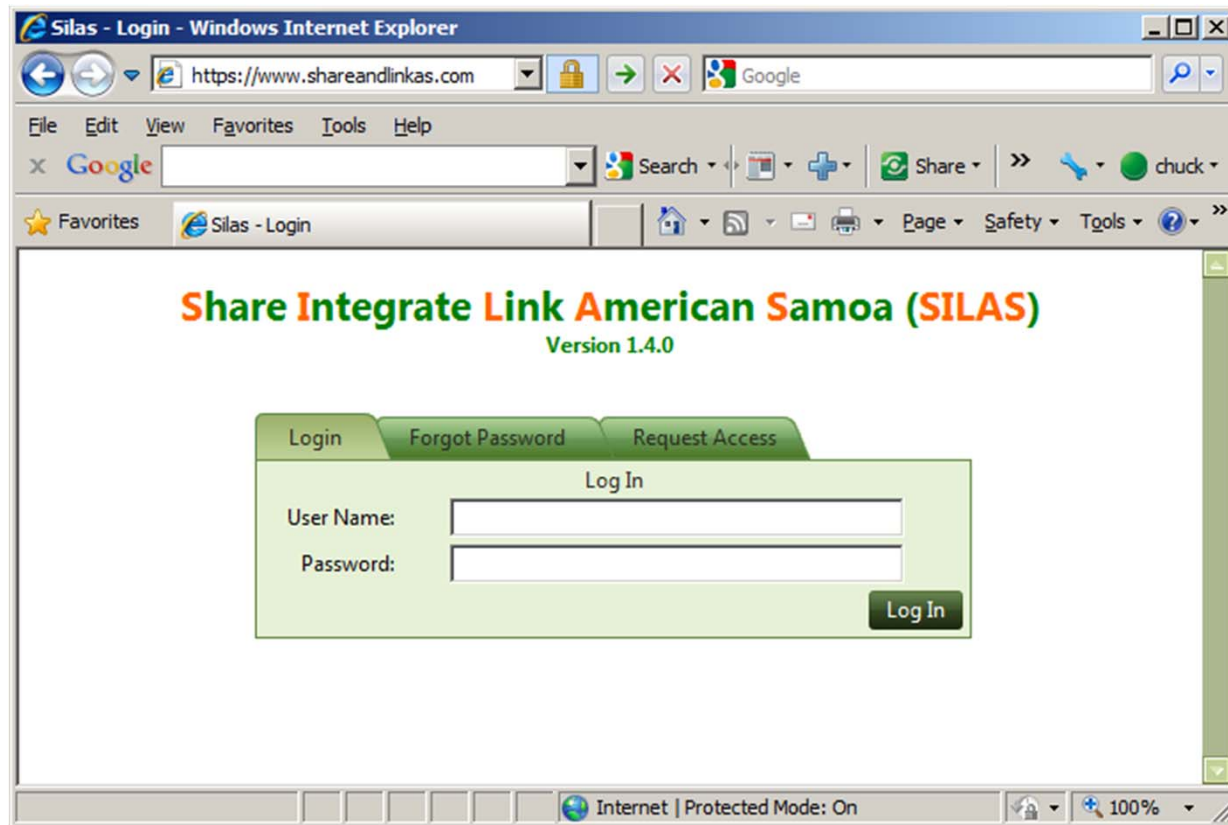
## EHDI Data – Part II

		2010		2009	
<b>Not screened at birth</b>		<b>65</b>	<b>5%</b>	<b>135</b>	<b>10%</b>
	<b>Infant Dies after Birth</b>	<b>5</b>		<b>16</b>	
	<b>Missed/Discharged prior to screening</b>	<b>60</b>		<b>119</b>	
<b>Missed/discharged prior to screening</b>		<b>60</b>		<b>119</b>	
	<b>Infants that PASS</b>			<b>66</b>	<b>55%</b>
	<b>Infants that REFER</b>			<b>0</b>	<b>0%</b>
	<b>NOT Screened</b>			<b>53</b>	<b>45%</b>
	<b>Percentage of all BAS</b>				<b>4.3%</b>

		2010		2009	
<b>Infants referred to Audiological Evaluation</b>				<b>7</b>	
	<b>Reveived Evaluation</b>			<b>3</b>	
	<b>No Evaluation</b>			<b>4</b>	
<b>Audiological Evaluation</b>				<b>3</b>	
	<b>No hearing loss</b>			<b>1</b>	
	<b>Hearing Loss</b>			<b>2</b>	
					*



# SILAS



- Web based, hosted in secure data center
- Current technologies, ASP.NET, SQL Server 2008

## SILAS (cont.)

- Integrated child and family centric system for coordinating screening and Early Intervention services
  - Mother and child demographics entered at birth
  - Electronic Health Record export to Vital Records
  - EBC completed by clerk and released
  - EBC data elements copied to the "program side" which has EHDI and Part C programs
  - Able to add other programs



# Prenatal and EHR

- Process starts with prenatal visits and medical info stored in EHR at LBJ Hospital
  - Demographics
  - Number prenatal visits
  - Immunizations
  - Gestational age
  - Risk factors





# Screeners Adds Newborns

**Add Child**

Hospital ID: 45-45-67

Child Name: BamBam (first) Rocky (middle) Flinstone (last)

Mother's Name: Wilma (first) Betty (middle) Flinstone (last)

Date of Birth: 2/1/2011

Time of Birth: 4:35 AM

Gender: Male

NICU:

# Days in NICU: 2

Family Matai Name: Oranges

Village: Bedrock

PO Box: 1234

Phone Type: Home

Phone Number: (111) 222-3333

Delivery Type: Normal Vaginal

Risk Factors:

<input type="checkbox"/> Low Apgar	<input type="checkbox"/> Pre-pregnancy Diabetes	<input type="checkbox"/> Gestational Diabetes
<input type="checkbox"/> Pre-pregnancy Hypertension	<input type="checkbox"/> Gestational Hypertension	<input checked="" type="checkbox"/> Persistent Pulmonary Hypertension
<input type="checkbox"/> Previous Pre-term Birth	<input type="checkbox"/> Previous Poor Pregnancy Outcome	<input type="checkbox"/> Previous C-Section
<input type="checkbox"/> Birth Trauma	<input type="checkbox"/> Low Birthweight	<input type="checkbox"/> Overweight
<input type="checkbox"/> Neonatal Jaundice	<input type="checkbox"/> Hyperbilirubinemia	<input type="checkbox"/> Gestational Infections
<input type="checkbox"/> Mom Hypothyroidism	<input checked="" type="checkbox"/> Iodine Deficiency	<input type="checkbox"/> Meningitis
<input type="checkbox"/> In Utero Infection	<input type="checkbox"/> Eclampsia	<input type="checkbox"/> HL Suspected
<input checked="" type="checkbox"/> Syndrom HL Assoc	<input type="checkbox"/> Family History HL	<input type="checkbox"/> Infertility Treatment
<input type="checkbox"/> Assisted Reproductive Technology	<input type="checkbox"/> Readmin Prior to 1 Month	<input type="checkbox"/> Stigmata
<input type="checkbox"/> Craniofacial Anomalies	<input type="checkbox"/> ECMO	<input type="checkbox"/> Mechanical Ventilation
<input type="checkbox"/> Childhood Ototoxicity	<input type="checkbox"/> Ototoxic Medications	

Number of C-Sections: 2

Overall Status Start Date: 2/1/2011

Save Cancel

## Share Integrate Link American Samoa (SILAS)

You are logged in as [Chuck Scheier \(chucks\)](#)  
Version 1.4.1

Helping Babies Hear Helping Hands Electronic Birth Certificate Data Management Admin Logout

Silas > Helping Babies Hear > View Child Record

**Actions**

Exit Record

**Child Information**

Child Hospital ID: 11-11-03 **Current Overall Status:** Pending Initial — 02/03/2011

Birth Information Name: James (first) (middle) Hollister (last)

EBC

Family Gender: Male In NICU:  Days in NICU: 0 Directions to Home:

Helping Babies Hear Date of Birth: 2/2/2011 Time of Birth: 2:22 PM

Contact	Family Role	Name	Village
Primary/Emergency	Mother	Melanie Hollister	Tafuna

Contact	Family Role	Name	Type	Phone Number
Primary/Emergency	Mother	Melanie Hollister	Home	(684) 699-7733
2nd Contact	Father	Jermiah Hollister	Cell	(684) 733-1285

Save Cancel Risk Factors History

- Child
- Birth Information
- EBC
- Family
- Program: Helping Babies Hear

# Family

Share Integrate Link American Samoa (SILAS)

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Version 1.4.1

Helping Babies Hear   Helping Hands   Electronic Birth Certificate   Data Management   Admin   Logout

Silas > Helping Babies Hear > View Child Record

Actions

Exit Record

Child Information

Child   Hospital ID: 11-11-03   DOB: 02/02/2011 02:22 PM   Current Overall Status: Pending Initial — 02/03/2011

Birth Information   Name: James Hollister

EBC

Family

Helping Babies Hear

+ Add Family Relationship   Refresh

First Name	Middle Name	Last Name	Contact	Family Role	History
Melanie		Hollister	Primary/Emergency	Mother	History

Addresses

+ Add Address   Refresh

Type	Address 1	Address 2	City	State	Zip	Village	History
Mailing	3927		Pago Pago	American Samoa	96799	Tafuna	History

Phone Numbers

+ Add Phone   Refresh

Type	Phone Number	History
Home	(684) 699-7733	History

Jermiah   Hollister   2nd Contact   Father   History

- Name, Contact Type, Relationship
- Addresses
- Phones
- Historical Audit Trail



# Program

## Share Integrate Link American Samoa (SILAS)

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[Helping Babies Hear](#) [Helping Hands](#) [Electronic Birth Certificate](#) [Data Management](#) [Admin](#) [Logout](#)

[Silas](#) > [Helping Babies Hear](#) > [View Child Record](#)

**Actions**

[Exit Record](#)

**Child Information**

[Child](#)  
[Birth Information](#)  
[EBC](#)  
[Family](#)  
[Helping Babies Hear](#)

**Hospital ID:** 10-10-82      **DOB:** 01/12/2011 06:02 PM      **Current Overall Status:** Pending Evaluation — 01/30/2011

**Name:** Charity Faith Spencer      [Change](#) [History](#)

Phase	Status	Status Date	History
▶  Infant	Closed	01/19/2011	<a href="#">History</a>
▼  Follow-Up	Closed	02/17/2011	<a href="#">History</a>
Activity	Activity Date	Outcome	
Follow-Up Hearing Screening	02/13/2011	Refer - 01/28/2011	<a href="#">Details</a>
Progress Note	02/03/2011		<a href="#">Details</a>
▶  Evaluation	Open	01/30/2011	<a href="#">History</a>

- Phase – {Infant, Follow-up, Evaluation}
- Activity – Initial Screen, Follow-up, Audiological Evaluation, Re-screen, Progress Note}
- Outcome – {Pass, Refer}