"Like a Good Neighbor...." Integrate with Other State Databases to Help Improve Follow-Up

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Michigan Department of Community Health Early Hearing Detection and Intervention Program

#### Overview

- Background on Michigan
- Integration with other state databases
  - Newborn Screening
  - Vital Records
    - Electronic Birth Certificate (EBC)
    - Birth Defects Registry (BDR)
  - Children's Special Health Care Services (CSHCS)
  - Michigan Care Improvement Registry (MCIR)

## Michigan Legislation

- Screening
  - Medicaid policy
    - More than 15 Medicaid births then hospitals required to screen infants
  - Standard of care



#### • Reporting

Mandated reporting as of February 23, 2006

## **2006 Michigan Data**

- 126,338 births
- 123,754 screened (97.9%)
- 1,882 infants did not pass final hearing screen
- 101 children have permanent hearing loss
- 25 children late onset hearing loss
- 33/101 children enrolled in Part C



## Reporting Hearing Screening 95 Michigan Birthing Hospitals

#### Hospital can report initial hearing screens two ways 1. Metabolic blood card

#### - 90 hospitals

H DATE	ATE			BIRTH TIME (Milliary)	BIRTH WT. (		S G ESTATION NICU/SPECIAL CARE:	SINGLE BIRTH		TIPLE BIRTH —>	FEMALE BIRTHORDER A B C D	ANTIBIOTICS? NO	
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#### 2. Electronic Birth Certificate

– 5 pilot hospitals

ЕНО	
EHDI Information - Initial Screen Results	
Was a Hearing Screen Performed? Reason Hearing Screening Not Performed:	
Date Screened :       Screen Method:       Results of Left Ear:       Results of Right Ear:	
EHDI Information - Secondary Screen Results	
Was a Second Hearing Screen Performed? Reason Hearing Screening Not Performed:	
Date Screened :       Screen Method:       Results of Left Ear:       Results of Right Ear:        //	

#### Newborn Screening

- Share Database
- Benefits
  - Demographic Information
  - Primary Care Physician
  - Hearing Results
  - Automated Follow-Up System
  - Improve Metabolic Quality Assurance

# Screening Data

ipecimen			
Main	First name:	La	ist name: N
<b>E</b>	<<   Kit no:	As	icn. no:
Query Screen	DOB: 01/09/2		U Gender: Female
Demographics	<ul> <li>Intial and Resc</li> </ul>	reen results	C Diagnostic results
333	< C Edit	Add	iave Cancel >>
emographics (OLD)	Date screened: 01/11	2005	Date entered: 02/08/2005
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	-Incomplete screening		
	C 1. Eq. Failure C		d C 3. Pending
	C 4. Refused C	5. Restless	C 6. Env. Noise
	C 7. Transfer C	8. Deceased	
	C 9. Other:		
	1		
Configuration			
Hearing			

8

## Diagnostic Data

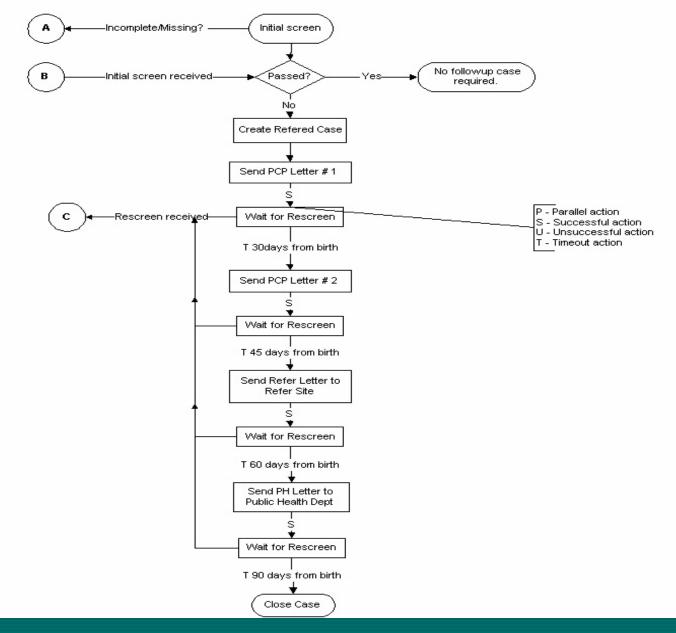
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333	C Edit Ad	id Save Cancel >>
Demographics (OLD)	Date diagnosed: 01/26/2003 Test Method C 1. OAE C 2. Immittance G 3. Click ABR C 4. Tone Brust ABR C 5. Bone ABR Diagnosis Code BSNSEV	5 Date entered: 02/10/2005 Test Results RE LE
Configuration		
Hearing		

#### Newborn Hearing Screening

#### Automated Follow-Up System

- Follow-up database allows tracking of all referrals (missed, incomplete, unilateral and bilateral referrals)
- Action tree allowing to contact primary care provider, rescreen site, and if needed public health nurse to help with follow-up

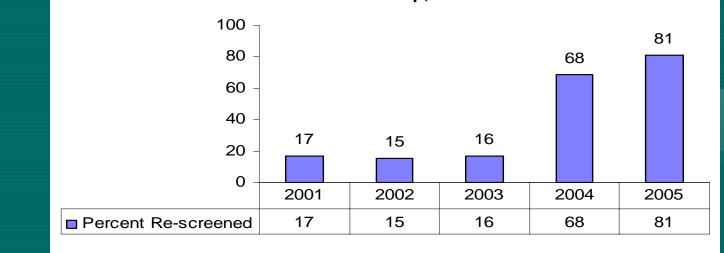
**Hearing Followup Process Flow** 



All actions - Patie	ent Care Patient Information							_ 8 ×
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Views								
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All actions	First Name	Address		Phone				
All actions	Middle Initial	Address 2		Phone				
	Date of Birth	City:		Fax:				
	Social Security	State:		Email				
Scheduled actions	Sex:	Zip Code		Count	y:			
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History	_ nonada	There is a second s	- Rî					
Requestors								
	All Actions							
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	🗹 Completed	Hearing Refer Site Rescreen	1/30/2005	1/30/2005		1/31/2005	Hearing - Screen Referred	
Diagnoses	🔟 Time out	Hearing Rescreen Recieved After 2nd Letter?	1/18/2005	1/18/2005	1/30/2005	1/30/2005	Hearing - Screen Referred	
	🛛 🗹 Completed	Hearing PCP 2	1/15/2005	1/15/2005		1/18/2005	Hearing - Screen Referred	
	🔟 Time out	Hearing Rescreen recieved After 1st Letter?	12/27/2004	12/27/2004	1/15/2005	1/15/2005	Hearing - Screen Referred	
Treatments	Completed	Hearing PCP 1	12/22/2004	12/22/2004		210 22 20 20 20 20 20 20 20 20 20 20 20 20	Hearing - Screen Referred	
	Unsuccessfully completed	Hearing Rescreen received already?	12/22/2004				Hearing - Screen Referred	
	Completed	Hearing Assign Requestors - Automated	12/22/2004	12/22/2004		12/22/2004	Hearing - Screen Referred	
Notes								
	Action Notes:							
	F							
	Note	Level Date User						

## How Well is it Working?

Figure 1b: Percent Rescreened among Referred for Follow-Up, 2001-2005<sup>a</sup>



No. Re-Screened	608	492	582	2,975	3,598
No. Referred	3,597	3,248	3,536	4,356	4,442

#### New Follow-Up Actions

#### • Undetermined and Conductive Transient

- 5 months after initial diagnostic
- 1 month after the first letter

	2004	2005	2006
Undetermined	79	122	62
Conductive Transient	72	73	168

## **New Follow-Up Actions**

#### • 2 Letters in 2007

- In other state database
  - Notification that child has a suspected hearing loss
- Loss to follow-up
  - Loss to follow-up report twice per year
  - If child in another database send new letter



#### Electronic Birth Certificate (EBC)

#### Hospital Level

- Reporting hearing screens
- Collection of risk indicators

#### State Level

- Verifies child has both metabolic and birth certificate
- Gathers new demographic information
- Follow-up on risk indicators

#### Advantages of linking with EBC

#### • Gather New Demographic Data

- Infant First and Last Name
- Maternal and Paternal Race and Ethnicity
- Maternal and Paternal Education
- Pay Source
- Mother's Maiden Name
- Attendant Physician First and Last Name
- Hearing Screen Results (initial and re-screen)

## Advantages of linking with EBC Risk Indicators

- 30 Risk Indicators
- Includes
  - NICU Admission
  - Seizures or Serious Neurological Dysfunction
  - Birthweight <1500 grams</li>
  - 5 Minute APGAR Score <6</p>
  - Congenital Heart Condition
  - Cleft Palate/Cleft Lip
  - Down Syndrome
  - Cytomegalovirus

#### Birth Defects Registry Overview

- Established by Act 236 of 1988
- Requires passive reporting by hospitals
- Defined list of reportable conditions
- Limited to under 2 years
- Purpose is for a source of statistical data and surveillance of birth defects trends

## Information Collected

- Case Specifics
  - Name and address
  - SSN, Medical Record Number
  - Mother's Information
- Reportable Diagnostics
- Procedures Provided
- Live Birth Data
- Mortality Data

#### Other Projects for BDR

#### Evaluation of Case Referrals

- Review of Cases
- Early On, CSHCS Referrals
- Survey Families and Physicians
- Additional Collaborations with Early ON, CSHCS, Medicaid

   Basic Statistical and Comparison Data
- Program Evaluation
- Coverage
- Trends/Outcomes
- Quality Improvement Activities

#### **Collaboration with the BDR**

- Matches have been completed between EHDI/BDR databases
  - Use Hearing Loss Codes
    - ICD 389
    - Notify BDR if EHDI has confirmed hearing loss
      - Helps validate information
      - Complete follow-up for babies we don't have confirmed hearing loss but BD has hearing loss

# Children's Special Health Care Services (CSHCS)

- Created to find, diagnose and treat children in Michigan who have chronic illness or disabling conditions
- Provides for a wide range of specialty health care and community support services. Promotes the development of service structures which offer health care that is:
  - Family centered
  - Coordinated
  - Community based
  - Culturally competent

- Serves eligible children from birth to age 21 and individuals over age 21 who have Cystic Fibrosis or certain blood coagulation disorders (Hemophilia).
- Approximately 28,000 persons enrolled in the CSHCS Program



## How does CSHCS Help Improve Follow-Up?

- Access to database
- If child is enrolled in CSHCS, copy the report and complete follow-up

#### **Biannual Matching**

- December 2007
  - CSHCS Query, DOB of 2006 only 389 codes
  - 64 hearing loss cases in CSHCS
  - EHDI had 54 cases
    - Need to complete on a quarterly/annual basis

## CSHCS

- Able to document some intervention information
  - Enrolled into CSHCS
  - Hearing Aid
  - Cochlear Implant



## Michigan Care Improvement Registry (MCIR)



**\***4.7 million records

Over 55 million shot records

\$9,000 user log-ins to MCIR every day

\$\$ 2,227 provider sites submitted data in 2006

Person: Jingleheimer-Schmidt, JohnPrintPrint HelpBirth Date: 02/09/1997Home ExitProvider: OverdueView

 Person
 Reports
 Reminder/Recall
 Import/Export
 My Site
 Administration
 School/Childcare
 Other

 Add/Find
 Roster
 Deduplication
 Vaccine Deduplication
 Information
 Status
 History

Person	Information		MCIR ID : 123456	7890AB
Name:	John Jacob Jingleheimer-Schmidt	DOB:	02/09/1997 Gender:	Male
Address:	312 South First Street NW	Age:	10yrs 4mos	
	Apt 3E			
	Kalamazoo, MI 49009-1773	County:	Kalamazoo	
Phone:	(517)555-1212	Contact	Andy Warhol (P/G)	

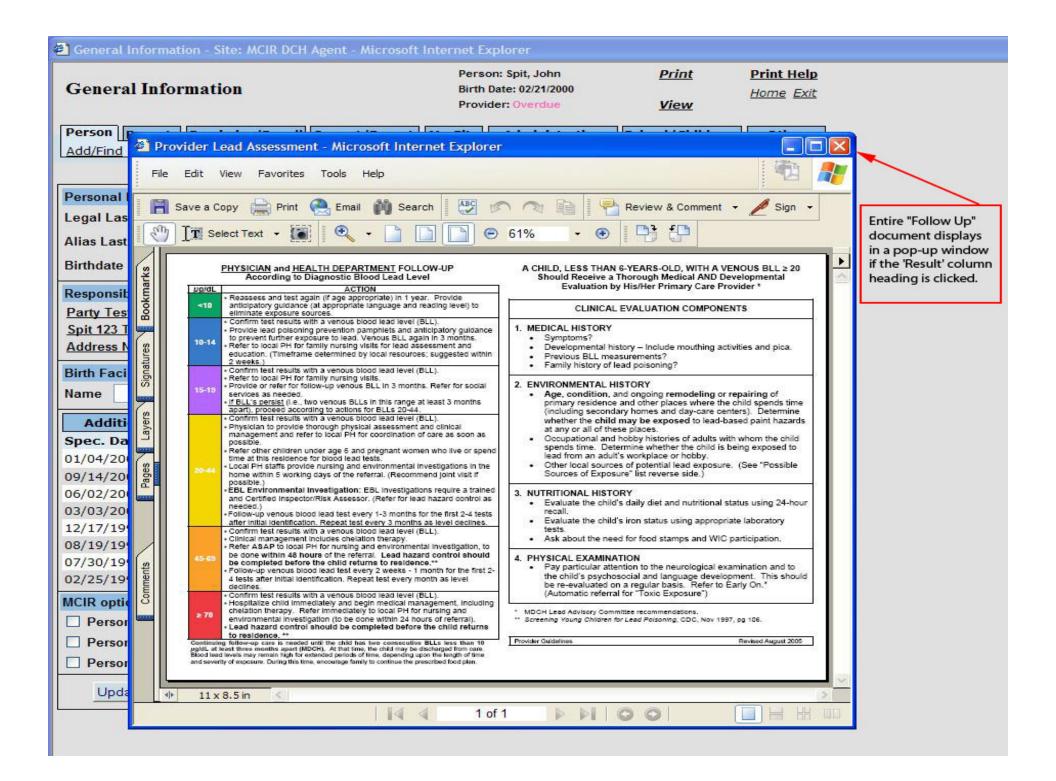
#### High Risk Conditions

#### □ Influenza Screening Notification

Immuniza	tions 📃 🛛 Le	ead 📃 🛛 EPS	SDT 📕 🛛 NB	S NBH	Other	Invalid Doses	
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Polio	04/16/1997 OPV 8wks 3days	06/11/1997 OPV 16wks 3days	08/27/1997 OPV 27wks 3days	08/26/2002 IPV 5yrs 6mos			Series Complete
MMR	02/25/1998 MMR 1yr 16days	08/26/2002 MMR 5yrs 6mos					Series Complete
HIB	04/16/1997 Hib-PedvaxHIB 8wks 3days	06/11/1997 Hib-PedvaxHIB 16wks 3days	08/27/1997 Hib-PedvaxHIB 27wks 3days	02/25/1998 Hib-PedvaxHIB 1yr 16days			Series Complete
НЕРВ	02/12/1997 HepB (Ped) 3days	04/16/1997 HepB (Ped) 8wks 3days	08/27/1997 HepB (Ped) 27wks 3days				Series Complete
Varicella	10/22/1998 Varicella 1yr 8mos						DUE NOW Varicella

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272				
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Birthdate	Gender*	🖾 Male 🔎 Fema	le	🗖 Multiple Bi
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BRIGID GARNETT			Ingham	County
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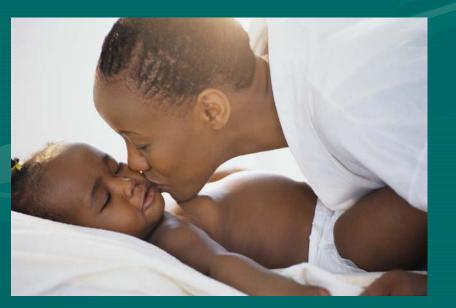
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## Michigan Care Improvement Registry (MCIR)

- Advantages
  - Medical home information after 90 days
- Reaching primary care providers for babies to reduce loss to follow-up
  - Real name after 7 days
  - Verification of deceased information and moved out of state
  - Demographic information

## MCIR

- In the future
  - Hearing Screen Results
  - Tabs that explain how to complete follow-up



#### Linkage with Other State Database

- Michigan Department of Education
  - Early Intervention Data Possibilities
    - Back door to get intervention information
    - Through HI supervisors group
    - Study to match data on annual basis and get aggregate data

## Michigan EHDI projects

#### • Web-Based Reporting

- Audiologist/ENT will be the only professionals that can enter diagnostic information
- Audiologist will be able to look up child using 2 or more identifiers
- Online Training Module
  - Screeners and nurse managers
  - Nursing CEU's offered
  - Available state-wide

#### **EHDI** Contacts

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