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Extending the Life of a Registry: Connecticut's ICES Reporting System



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Background

- ICES first deployed in 1994 using available technology
- Deployed as a FoxPro application over Citrix Winframe
- Still running in this environment
- @40 sites using the system (out of 400)
- Birth cohort @43,000 children

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The Challenge

- Undergoing acceptance testing for a new registry. Not sure test would be positive.
- Needed to provide additional reporting functionality to providers within current product framework.
- Wanted to limit investment but still enrich functionality.

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Solution

- Contracted with HLN Consulting, LLC to develop a stand-alone reporting system
- Contracted through local AAP chapter
- Limited but necessary functionality
- Support for display and printing
- Read-only application
- Precise formatting requirements

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System Architecture

- Visual Basic 5.0 wrapper for record selection and query via ODBC
- Call to MS-Access database which has report formats
- Data accessed from existing FoxPro files
- Winframe handles display and printing support.

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Three Reports

- Health Assessment Record (“blue form”)
- Child Health Record
- Youth Camp Health Exam/Record

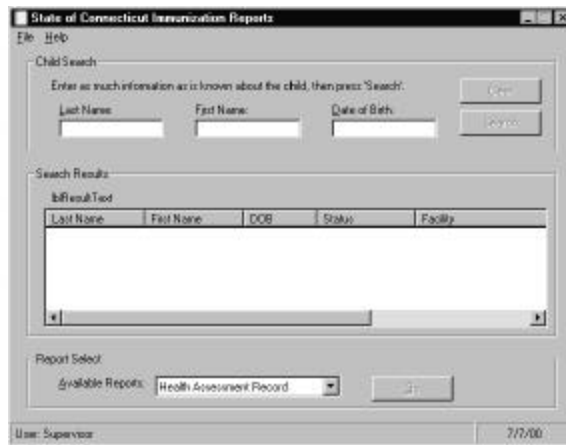
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System Walk-through: Login



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System Walk-through: Search



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System Walk-through: Selection

State of Connecticut Immunization Reports

Child Search:

Enter as much information as is known about the child, then press 'Search'.

Last Name: _____ First Name: _____ Date of Birth: _____

Search

Search Results:

15 possible matches found:

Last Name	First Name	DOB	Status	Facility	Mt.
SALZ	THOMASRA	07/02/1985	Deceased	D-CHILDREN HLTH/NEW HWN	MC
SANCHEZ	DAFRAN	10/08/1986	Deceased	CT CHILDREN MED CNTR	DE
SANTAGO	THALIA	02/12/1987	Deceased	CENTRAL CLINIC	AE
SCOTT	MAURICE	10/13/1984	Deceased	MT SINAI/BURGDOFF	DS
CHILD	DAVID	07/24/1985	Active	CHILDREN'S HOSPITAL	MC
CHILD	DAVID	07/24/1985	Active	CHILDREN'S HOSPITAL	MC

Report Select:

Available Reports: Child Health Record

User: Supervisor 7/7/00

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System Walk-through: Output

State of Connecticut
Department of Public Health
Division of Community Health Statistics
(860) 261-1000

CHILD HEALTH RECORD

Child Name: DAVID Date of Birth: 07/24/85 Sex: Male

Parent/Provider: _____ Address: _____

IMMUNIZATION RECORD (Month, Day, Year for each dose)

IMMUNIZATION	DTSP	DATE	DTSDOSE	DTSDOSE	DTSDOSE	DTSDOSE	DTSDOSE
DTPa (DTSP)	05/11/94	08/12/94	07/11/94	07/11/94	07/11/94		
DTPa (DTSP)	05/11/94	08/12/94	07/11/94	07/11/94	07/11/94		
Hib (Hemophilus influenzae Type B)	05/11/94	08/12/94	07/11/94	07/11/94	07/11/94		
DTPa (DTSP)	05/11/94	08/12/94	07/11/94	07/11/94	07/11/94		

1. Yes No All birth records maintained in accordance with ICF for ICF

2. Yes No If you specify the record of and include the child's health record and a live vaccine record (page 2) that apply to the child

3. Yes No If you specify the record of and include the child's health record and a live vaccine record (page 2) that apply to the child

4. Yes No If you specify the record of and include the child's health record and a live vaccine record (page 2) that apply to the child

GENERAL HEALTH RECORD

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Challenges and Conclusions

- Numerous problems getting this patchwork infrastructure to work properly
- Small staff not always able to focus on the issues
- Limited investments to extend aging technology can be made effectively

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