

Kentucky Birth Surveillance Registry

Counting Every Baby because Every Baby Counts

National Birth Defect Prevention Annual Meeting

February 27, 2012

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Mission

To develop and implement a birth surveillance registry that promotes early and accurate identification of children with birth anomalies and other disabling conditions and facilitates prevention, planning and service delivery in the Commonwealth of Kentucky.



Legislation

- KRS 211.655-670 passed in 1992 establishing the birth surveillance registry
 - Provide information on the incidence, prevalence, and trends of birth defects.
 - Provide information about possible causes.
 - Facilitate preventive strategies to reduce these conditions and secondary complications.
 - Establish a program to link affected children and families to services.

Legislation

- Mandates hospital reporting for selected genetic and disabling conditions.
- Allows medical record review



KBSR Reportable Codes

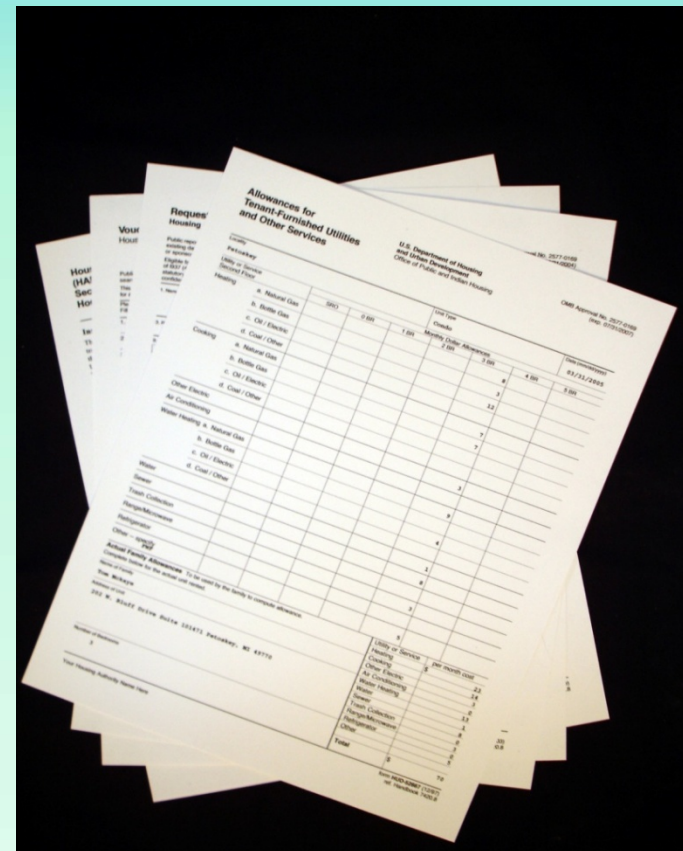
All Congenital Anomalies	740 –759	Neurologic Disorders of Brain and Cord	334
<i>Examples:</i>		Cerebral Palsy	343
Neural tube defects	740-742.0	Teratogen (noxious influences)	760.7
Cleft lip and palate	749	Fetal Alcohol Syndrome	760.71
Gastroschisis/Omphalocele	756.79	Narcotics	760.72
Chromosome Disorders	758	Hallucinogenic Agents	760.73
Metabolic/Storage Disorders	270-279*	Cocaine	760.75
<i>*Excluding codes 274, 276, 278</i>		Small for Gestational Age	764
Dwarfism,	259.4	Infant of Diabetic Mother	775
Not Elsewhere Classified		Failure to Thrive	783.4
Hereditary Hemolytic Anemia	282		

KBSR Database

- Collect congenital anomaly codes and disabling conditions
- Birth to five years
- Sources
 - Hospital inpatient discharge (UB-92)
 - Vital Statistics (live births, stillbirths, deaths)
 - Genetic Clinics
 - Voluntary outpatient reporting
 - Laboratory (cytogenetics) reporting

Inpatient Hospital Data

- Hospital Inpatient Discharge Data (UB92)
 - 2000- Data collection began.
 - Birthing hospitals sent individual files of data in excel for 1998 to 2000.
 - 8,000 records annually
 - Now Hospital Association submits electronic file quarterly.



Vital Statistics

- Vital Statistics Data
 - Live Birth, Death and stillbirth
 - Received data after year “closed”
 - Electronic files received twice per year.
 - Now Monthly
 - 600 to 700 annually records.

KBSR Sources

- Voluntary Outpatient Reporting
 - 2004-Legislation to allow voluntary reporting.
 - Minimal records reported.
- Laboratory (Cytogenetics) Reporting
 - Mandated Laboratory reporting by cytogenetics labs.
 - Challenge to match prenatal to information.
Laboratory (cytogenetics) reporting 75 to 150 per year
Genetics Clinics-report quarterly

First Generation KBSR Database

- Contracted programmer
- Access database
- Select elements from vital statistic records
- Linked to hospital discharge.
- Synchronize

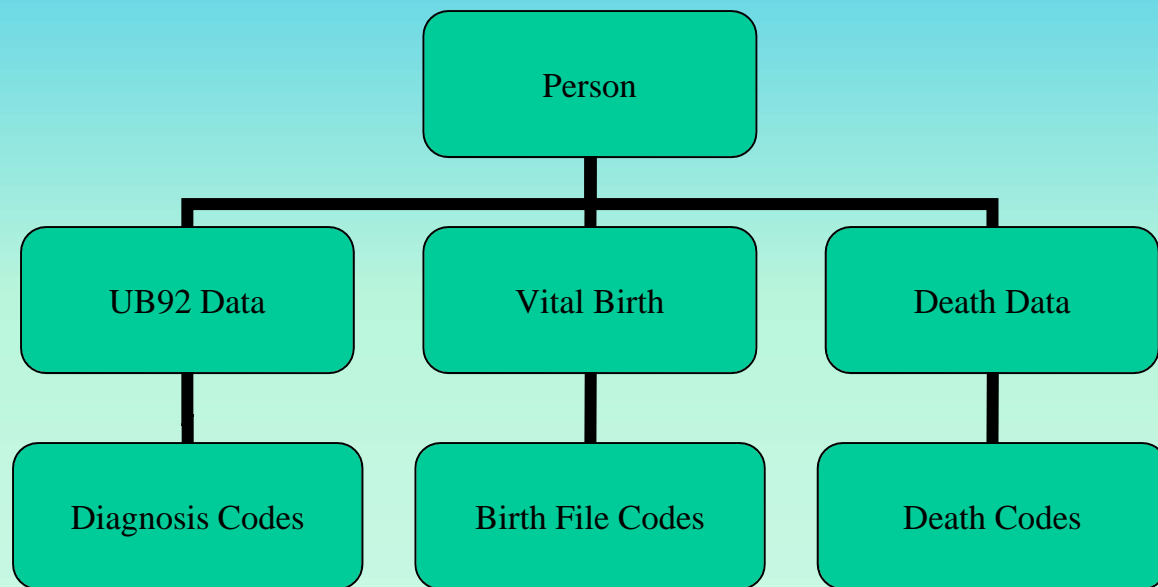


Linkage

- All data tied to “person”
- John Henry Software-DataLever
- Import vital statistic records.
- Currently 92,849 individuals with 95% linked to vital statistic birth records
- Linked to hospital discharge.
 - First and Last Name
 - DOB
 - Sex



Structure



Lessons Learned

- Software Choices Utilized
- Real-time linkage difficult.
- Communication with Programmer Essential.
- Hospital Association streamlined reporting.



Challenges

- 2004 Birth Certificate file format changed.
- Required database redesign to include new fields
- Input on Birth certificate change.



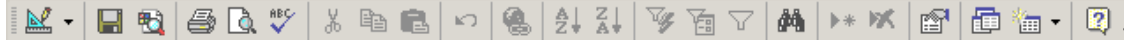
KBSR Second Generation

- LinkPlus software utilized for probable matching. Still requires manual review.
- All VS data elements imported.
- One common Person ID.
- Retain original data from sources.
- Communication with Programmer Essential.
- Date and Time Stamp for synchronization

KBSR Second Generation

KBSR - [mnuMain Menu : Form]

Tahoma 14 B I U



File Edit View Insert Format Records Tools Window Help lkpCongenitalAnomalyCodes

Kentucky Birth Surveillance Registry Main Menu

**Browse New Records with
Congenital Anomalies**

Browse KBSR

Process New Records

Utilities

Close Form

Exit

Person Screen

KBSR MASTER RECORD

Close Form

Search with known birthdate

Search1, dob:

search2

Search with unknown birthdate

search3

PERSON_ID

SSN

COMPLETED

Family History

BIRTH_ID

SEX

NOTES

Family History Comments

STILLBIRTH_ID

KY_BIRTH

0411 NKC=gastrichisis-with small bowel,
colon, appendix and right testicle involved.
Deve NEC one month post op DOD 2/11/08
SF

PATIENTCNTL

Mother FIRST

FIRST

LAST

MI

SSN

LAST

Has Referral

Referral Date

ADDRESS

Prenatal Diagnosis

Referral Outcome

CITY

PrenatalTestType

Source

COUNTY

Father FIRST

Test Type
Notes

Date Created

STATE

LAST

Time Stamp

ZIP

SSN

DOB

Is To Be Deleted

DOD

DEATH_ID

View Livebirth

View Stillbirth

View Death Record

View Admissions

View Diagnoses

Add New Person Record

Add New Admissions Record

Vital Birth

KBSR - [Live Birth With Anomalies]

MS Sans Serif 8 B I U [Rich Text Editor Icons]

File Edit View Insert Format Records Tools Window Help lkpCongenitalAnomalyCodes

View New Live Birth Certificates

Close Form

PERSON_ID 125570 BIRTH_ID 200800100128 Child FIRST Dora MID D LAST Explorer JR DOB 1/2/2008 SEX M CNTYOCCUI 056 CNTYALPHA JEFFN PLACEBIRT 1 FACID 0114 APGAR 5MIN 08 10MIN 88 MEDRECNO 1164434 WEIGHTUNITS G GRAMS 1750 PHYESTGEST 33 DECEASED 1 DECEASEDDT 1/1/1800	FIRST Donna Mother MID M LAST Explorer SSN 123456789 DOB 7/8/1986 AGE 21 BIRTHPLACE 415 STATERES 415 CNTYRES 056 RESCITYLMT 1 MAILCITY LOUISVILLE MAILSTATE KY MAILZIP 40214 MAILSTREET 704 DOUGLAS PARK MAILAPT MARRIED 2 SRCPAYCD 1 BREASTFED 1 HISPANIC 1 RACE 2 EDUC 2 BIRTHCOUNTRY US	PREVCH 0200 LIVING 02 NOWDEAD 00 LSTLVBIRTH 042003 NBROTHRTERMS 02 LSTOTHRTERMS 082006 LSTMENSES 5/8/2007 PRENATAL 5/30/2007 PRENATALDATEEND 12/27/2007 NBRPRENVISITS 20 PLURALITY 1 MEDRECNO 1008851 HEIGHTFT 5 HEIGHTIN 06 PREPREGWT 160 DELIVERYWT 186 REGDATE 1/9/2008 ATTENDANT 1 WIC 2 SMOKER 1 CIGPREV 24 CIGFIRST 10 CIGSECOND 0E CIGLAST 0C ALCOHOL 2 AVGDRINKS 9E	Father FIRST MID LAST JR SSN DOB 1/1/1800 AGE 99 RACE 9 EDUC 9 HISPANIC 9 MR DIABETES 2 DIABGEST 2 HYPERPREPREG 2 HYPERGEST 2 PREVPRETERM 1 PREVPOOROUTCOME 2 UTERINEBLEEDING 2 PREGFROMTREAT 2 PREVCESREAN 2 PREVCESNO 0 NONE 2 BIRROUTCODE 1 CHARINDUCTION 2 CHARAUGMENT 2 CHARNONVERTEX 2	ANENCEP 2 Anomaly SPINA 2 HEART 2 HEARTCONG 2 HEARTNCONG 2 DIAPHERNIA 2 OMPHAL 2 GASTRO 1 LIMBREDUCT 2 CLEFTLIP 2 CLEFTPALATE 2 DOWNNS 2 DOWKARYOCONF 2 DOWKARYOPEND 2 CHROM 2 CHRKARYOCONF 2 CHRKARYOPEND 2 HYPOSPADIAS 2 NONE 2 OTHER 2 OTHERLIT BIRPRESENTCODE 1 TRANINFNT 2 INFNTFAC TRANMT 2 MTFAC
---	--	--	---	---

Vital Death

DEATH CERTIFICATES

Close Form

Person_id	125675	City of Residence	VINE GROVE	Cases Referred	2	Injury at Work	9		
Death_id	200802110269	Street	412 HIGHLAND AVE.	Underlying Cause	Q913	Pace of Injury	9		
First Name	Dora	Place of Death	1	Resid in City	1	Supplemental Cause1	Q913	Location of Injury	499
Middle Initial		Hospital Number	03	Zpcode	40175	Supplemental Cause2		Year of Volume	2008
Last Name		County of Death Code	247	Hispanic	0	Supplemental Cause3		Record Type	
Sex		County of Death	HARDN	Race	1	Tbcancervd		Process Period	052008
Date of Death	3/19/2008	Marital Status	1	Education	00	Autopsy	9	Birth Cert Vol	200
Social security	000000000	Occupation		Fathers Surname	BROOKS	Manner	9	Birth Cert Num	10824
Age	502	Business or Industry		Burial	1			Correction Code	1
Date of Birth	3/19/2008	State of Residence	KY	Certification	108	Date of Injury	3/27/2008		
State of Birth	415	City County of Res	047	Hour of Death	082	Hour of Injury	092		

Admission Data

ADMISSION DATA

Close Form

PERSON ID 125570
LAST NAME Dora
FIRST NAME Explorer
MIDDLE
DOB 1/2/2008
SEX M
ADDRESS 704 DOUGLAS PARK
CITY LOUISVILLE
STATE KY
ZIP 40214

DX FROM ADMISSIONS	PRINCIPLE DIAG	779.89	OTHER CONDITIONS ORIG IN PEI
	DIAG1	756.79	CONGN ANOML ABD WALL NEC
	DIAG2	777.5	NECROT ENTEROCOLITIS NB
	DIAG3	276.0	HYPEROSMOLALITY
	DIAG4	276.2	ACIDOSIS
	DIAG5	486	PNEUMONIA, ORGANISM NOS
	DIAG6	997.4	SURG COMP-DIGESTV SYSTEM
	DIAG7	560.1	PARALYTIC ILEUS
DIAG8	770.89	other respiratory problems after birth	

ADMISSION DATE 1/2/2008
PATIENT STATUS 20

PATIENT CNTL K00005336268
INS LAST NAME
INS FIRST NAME
CHILD SSN CERT NO
RELATIONSHIP
MED REC NUM X081164070
PHYS UPIN A78973
HOSPITAL Kosair
DISCHARGE DATE 2/9/2008
SOURCE ADMISSIONS
TIMESTAMP: 2/26/2012 3:53:14 PM

Master Diagnosis

Master Diagnoses List

Close Form

Person_ID	Source	ICD-9	ICD-10	Delete	Description	Birth ID	Stillbirth ID	Death ID	PATIENTCNTL	Timestamp
125570	livebirth	756.79		<input checked="" type="checkbox"/>	CONGN ANOML ABD WALL NEC	200800100128				4/21/2011 10:03:07
125570	death cert		Q793	<input type="checkbox"/>	Congenital malformations of musculoskeletal system, no elsewhere			200801607714		8/11/2008 3:57:09 PM
125570	death cert		Q793	<input type="checkbox"/>	Congenital malformations of musculoskeletal system, no elsewhere			200801607714		8/11/2008 3:57:09 PM
125570	death cert		K529	<input type="checkbox"/>				200801607714		8/11/2008 3:57:09 PM
125570	Admission	779.89		<input type="checkbox"/>	OTHER CONDITIONS ORIG IN PERINATAL				K00005336268	2/26/2012 3:55:25 PM
125570	Admission	756.79		<input checked="" type="checkbox"/>	CONGN ANOML ABD WALL NEC				K00005336268	4/21/2011 10:03:13
125570	Admission	777.5		<input type="checkbox"/>	NECROT ENTEROCOLITIS NB				K00005336268	2/26/2012 3:55:37 PM
125570	Admission	276.0		<input type="checkbox"/>	HYPEROSMOLALITY				K00005336268	2/26/2012 3:55:44 PM
125570	Admission	276.2		<input type="checkbox"/>	ACIDOSIS				K00005336268	2/26/2012 3:55:50 PM
125570	Admission	486		<input type="checkbox"/>	PNEUMONIA, ORGANISM NOS				K00005336268	6/16/2009 2:00:22 PM
125570	Admission	997.4		<input type="checkbox"/>	SURG COMP-DIGESTV SYSTEM				K00005336268	2/26/2012 3:56:00 PM
125570	Admission	560.1		<input type="checkbox"/>	PARALYTIC ILEUS				K00005336268	2/26/2012 3:56:06 PM
125570	Admission	770.89		<input type="checkbox"/>	other respiratory problems after birth				K00005336268	2/26/2012 3:56:19 PM

Record: 1 of 15 Filtered Search

Num Lock Filtered



Reporting

Record Selection for Reports

Before running make sure the long dx's are up to date!!
(Run 'Create Horizontal Dx Table' if needed)

Birth date from: Birth date to:
dx from: dx to:
dx type
 ICD9
 ICD10

You may use All; observe capitalization. Never select specific hospitals in both Birth Certs and Admissions records at the same time.

Birth Cert Hospital: This uses hospital field on Birth Certificates

At least one of these must be All

OR

These use the hospital field on admissions

Admissions Hospital Name:

Admissions Hospital Number:

For admission hospital searches, you must have both name and number

Output table name:

Display Sql

Run Query

Close Form

Reporting Output

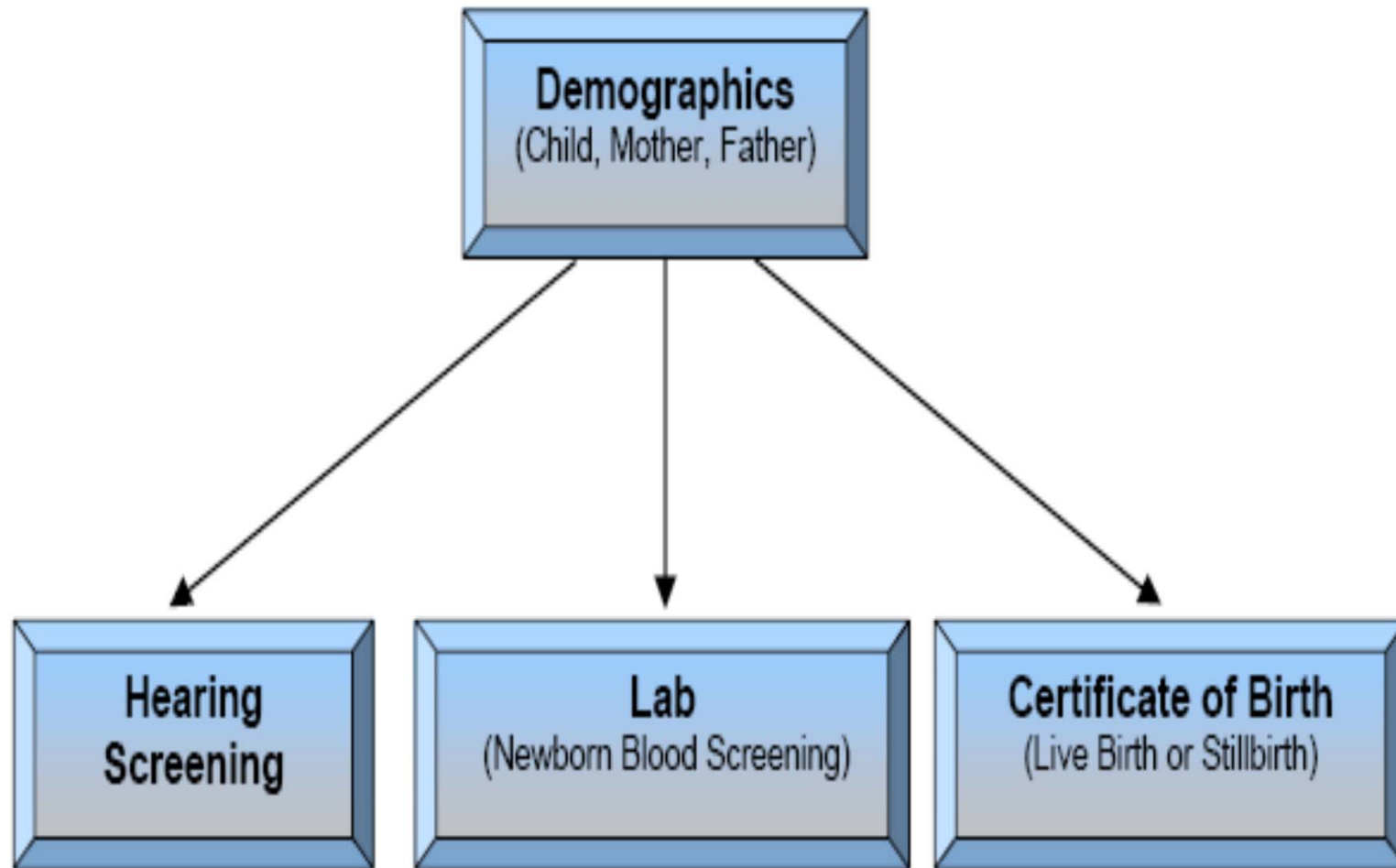
KBSR - [rptquery : Table]

File Edit View Insert Tools Window Help lkpCongenitalAnomalyCodes

Field Name	Data Type	Description
PERSON_ID	Number	
NAME_LAST	Text	
NAME_FIRST	Text	
NAME_MI	Text	
DOB	Date/Time	
ZIP	Text	
SEX	Text	
tblmasPerson_BIRTH_ID	Text	
SSN_MOM	Text	
longdx	Memo	
ABST_CMPL	Yes/No	
tblmasbirthcert_BIRTH_ID	Text	
DEATH_ID	Text	
QMORACE	Text	
QMOHISPANIC	Text	
QMOTHERDOB	Text	
QMOAGE	Text	
COUNTY	Text	
HOSPITAL	Text	
STATE	Text	
QHOSPNAME	Text	
QCHMEDRECNO	Text	
QGRAMS	Text	
QPHYESTGEST	Text	
STILLBIRTH_ID	Text	
SMOHISPANIC	Text	
SMORACE	Text	

Field Properties

Moving to Web-based system KBSR Third Generation



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- [e-Health](#) > **e-Health Information Systems**



e-Health Information Systems

e-Health Information Systems

KY-EPHRS (Kentucky Electronic Public Health Record System)

KY-Electronic Public Health Record System is an Internet-based, centralized public health data repository. It is intended to be used by health care professionals to record public health data for the over four million Kentucky residents. To protect patient/person information, technologies such as secure socket layer and role-based access are used to protect confidential information and ensure patient privacy.



KY-CHILD (Kentucky Child Hearing Immunization and Laboratory Data)

[Login](#) - [More Information](#)

KY-CHILD is used by Kentucky's 56 birthing facilities to begin a child's health record. Using one system to collect birth information helps eliminate duplication of data and ensures data integrity between public health programs.

KY-CHILD - Login - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites RSS Feeds SnagIt Links

My Web Search Search Address https://kchild.chfs.ky.gov Go SnagIt

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Proceed to Login Cancel

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Start Outlook RE: Production Ink - M... 08-07-07 KY-CHILD Us... KY-CHILD - Login - M... SnagIt 9:25 AM

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ALERTS!

Reminder: KY-CHILD is unavailable from 4:30pm to 7:30pm ET every Thursday for system enhancement and maintenance.

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Password

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ALERTS!

Reminder: KY-CHILD is unavailable from 4:30pm to 7:30pm ET every Thursday for system enhancement and maintenance.

Log In To KY-CHILD

Please Select Your Facility To Log In To

- ARH REGIONAL MEDICAL CENTER HAZARD
- BAPTIST HOSPITAL EAST
- BAPTIST HOSPITAL NORTHEAST
- BAPTIST REGIONAL MEDICAL CENTER
- CARITAS MEDICAL CENTER
- CENTRAL BAPTIST HOSPITAL
- CLARK REGIONAL MEDICAL CENTER
- EPHRAIM MCDOWELL
- FLAGET MEMORIAL HOSPITAL
- FORT LOGAN HOSPITAL

Active Patients at MUNICIPAL HOSPITAL

Selected View: Show All Events Show Open Birth Show Open Labs Show Open Hearing

Active patients list

Select	Child's Medical Rec. #	Hosp Reg #	Child's Last Name	Child's First Name	Child's Date of Birth	Mother's Current Last	Mother's Maiden Last	Mother's Maiden First	Mother's SSN	Plurality	Birth Order	Cert Started	Delete
Select	*S3456789	2008000067	Smythe	Samantha	02/04/2007	SMYTHE	Smythe	Robyn	111-11-1111	1	1	N	
Select	*J5678901	2008000066	Jones	Joan	03/01/2008	Jones	Jackson	Juanita	111-11-1111	1	1	N	Delete
Select	*S1234567	2008000065	Smith	Alyssa	02/20/2008	Smith	Jones	Jillian	111-11-1111	1	1	N	Delete
Select	*09876543	2008000064	Doe	Daniel	02/14/2008	Doe	Jones	Jane	111-11-1111	1	1	N	Delete

<< 1st Page < Prev Page 1 of 1 Next > Last Page >>

Search Active Patients

Medical Record Number: Hospital Registration Number:

OR

Lab/Hearing ID: ID:

OR

Demographic Info:

Child's Name: Last First

Child's Date of Birth: (mm/dd/yyyy)

Mother's Maiden Name: Last First

Mother's Social Security Number: - -

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Active Patients at MUNICIPAL HOSPITAL

Selected View: Show All Events Show Open Birth Show Open Labs Show Open Hearing

	Child's Medical Rec. #	Hosp Reg #	Child's Last Name	Child's First Name	Child's Date of Birth	Mother's Current Last	Mother's Maiden Last	Mother's Maiden First	Mother's SSN	Plurality	Birth Order	Cert Started
Select	*D9976543	2007002471	Doe	Daniel	08/01/2007	Doe	Doe	Danielle	111-11-1111	1	1	N
Select	*S1234567	2007002470	Smith	Alissya	08/01/2007	Smith	Jones	Jillian	111-11-1111	1	1	N

Please Select The Event You Would Like To Work With:
YOU ARE ABOUT TO SELECT A LIVE BIRTH EVENT. PLEASE CONFIRM THIS BEFORE CLICKING SELECT!

I acknowledge that the event selected is correct.

Hearing Events

Select This Event

- Select --
- Certificate of Live Birth
- Certificate of Stillbirth
- Hearing Events
- Lab Events
- Transfer Patient

Search Active Patients

Medical Record Number: Hospital Registration Number:

OR

Demographic Info:

Child's Name: Last First

Child's Date of Birth: (mm/dd/yyyy)

Mother's Maiden Name: Last First

Mother's Social Security Number: --



Child's Information

1. *Medical Record Number of the Child:

2. *Child's Name:
Last First Middle Suffix

3. *Date of Birth: (mm/dd/yyyy)

4. *Time of Birth (24-hour):

5. *Gender of Child:

6. *Facility Name:

7. *City, Town or Location of Birth:

8. *County of Birth:

9. *Plurality:

10. *Birth Order: **First**

11. Mother's Name Prior to First Marriage (Maiden Name)
Last First Middle Suffix

12. *Emergency Contact Name
Last First Middle Suffix

*Contact Phone () - x

Address

Address Line 1

Address Line 2

Address Line 3

City

State

Country **UNITED STATES**

Postal Code (For US Zip Code use 12345-6789 or 12345)

*Relationship



Child's Name: **Joan Jones** Date Of Birth: **08/03/2007**

Mother Unknown

Mother's Information

1. *Mother's Current Name

Last: First: Middle: Suffix:

2. *Mother's SSN: --

3. *Mother's Date of Birth: (mm/dd/yyyy)

4. *Name Prior to first Marriage

Last: First: Middle: Suffix:

5. *Mother's Residence:

Address Line 1: Suite/Apt. Number:

Address Line 2:

Address Line 3:

City:

State:

Country: **UNITED STATES**

Zip Code: (For US Zip Code use 12345-6789 or 12345)

County:

Inside City Limits

*Mailing Address Same as Residence?

*Mother's Mailing Address:

Address Line 1: Suite/Apt. Number:

Address Line 2:

Address Line 3:

City:

State:

Country: **UNITED STATES**

Postal Code: (For US Zip Code use 12345-6789 or 12345)

6. Mother's Home Phone: () -

Mother's Work Phone: () - x

Mother's Cell Phone: () - x

Web-based Start

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Maintenance

Security

KBSR

Abstracted Diagnoses

Admissions Data

Case Management

Child Parent

Letter

Creation/History

Search

Search

Child Information

1. Child Name:

Last: First: Middle:

2. Date of Birth: (mm/dd/yyyy)

3. Place of Birth:

4. Sex:

5. Hospital Data NP#:

Parent/Guardian Information

6. Relationship:

7. Name:

Last: First: Middle:

8. Address:

Line 1: Line 2:
City: State: Zip Code:
County:

9. Maiden Name:

10. SSN: - -

Cases only

Search

Clear Search

Child Info

Kentucky.gov

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Case Management

Child Information

1. Child Name:

Last: First: Middle: Suffix:

2. Date of Birth: (mm/dd/yyyy)

3. Date of Death: (mm/dd/yyyy)

Case Information

4. Case Status:

5. Case Open Date : (mm/dd/yyyy)

6. Case Close Date : (mm/dd/yyyy)

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Child/Parent

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Child/Parent

Child Information

1. Child Name:

Last:

First:

Middle:

Suffix:

2. Date of Birth:

(mm/dd/yyyy)

Time of Birth

(hh:mm)

3. Place of Birth(Facility Name):

4. Medical Record#:

5. Sex:

6. Hispanic Origin:

7. Primary Language used at Home:

8. Race:

9. Gestational Age: (Weeks)

10. Plurality:

11. Birth Weight: (Grams)

Parent/Guardian Information

12. Parent/Guardian Name:

Last:

First:

Middle:

Suffix:

13. Relation Type:

Admission Data

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Maintenance

Security

KBSR

Abstracted Diagnoses

Admissions Data

Case Management

Child Parent

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Creation/History

Search

Admissions Data

Child Information

1. Child Name:

Last: First: Middle: Suffix:

Admission Information

2. Admission Date: (mm/dd/yyyy)

3. Patient Control ID:

Diagnosis Code

4. ICD-9:

5. ICD-9 Description:

6. ICD-10:

7. ICD-10 Description:

8. Additional Information:

Save Result

New Result

Reset

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Abstracted Diagnoses

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Maintenance

Security

KBSR

Abstracted Diagnoses

Admissions Data

Case Management

Child Parent

Letter

Creation/History

Search

Abstracted Diagnoses

Child Information

1. Child Name:

Last: First: Middle: Suffix:

Diagnoses

2. Abstracted Date: (mm/dd/yyyy)

3. Diagnosis Code:

4. Hospital Name:

5. Diagnosis Date:

6. Abstracted Comments:

7. Prenatal Diagnosis:

8. Prenatal Notes:

9. Case Closed Status:

10. Family History:

11. Family History Comments:

12. Referred To:

13. Referred Date:

14. Referral Status:

Save

Reset

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Letter Creation

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Maintenance

Security

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Abstracted Diagnoses

Admissions Data

Case Management

Child Parent

Letter

Creation/History

Search

Letter Creation/History

Letter Creation

1. Child Name:

Last: First: Middle: Suffix:

2. Letter To:

Physician Suffix:

3. Letter Type:

4. Specimen Detail:

5. Healthcare Provider:

Last: First: Middle:

6. Current Address:

Line 1: Line 2:
City: State: Zip Code:
County:

7. Contacted Date:

(mm/dd/yyyy)*

8. Comments:

Preview Letter

Generate Letter

Reset

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Benefits...

- Potential for improved timeliness
- Sustainability
- Reduction in transcriptional errors
- Less clerical staff needed
- Linkage real time.
- Business Objects-Vital queries.

Challenges

- Web-based connectivity in rural areas.
- Linking Hospital discharge data.
- Remote access to hospital records.



Lessons Learned

- Complicated process.
- Software licenses can be expensive.
- Data always changing.
- Currently still the only consecutively linked system in MCH.
- Work with Vital statistics-MRN#



KHIE
KENTUCKY HEALTH
INFORMATION EXCHANGE



The KHIE Connection: *Partnering to Improve Patient Health Outcomes*

February 2012



Primary Goal

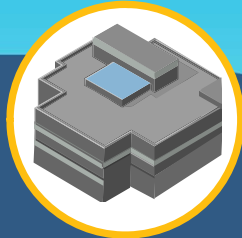
- Provide HIE Connectivity to as many providers as possible over the next two years with little or no startup cost to the providers

KHIE A Value Added Proposition

- Impacting the Healthcare of Kentuckians
- Use of Policy Levers
 - Medicaid Claims Data
 - KHIE was seeded with two years worth /now three years
 - State Laboratory Results
 - Microbiology LIVE since July 2011
 - **Newborn screenings in TEST – projected LIVE Q 2 2012**
 - Kentucky Immunization Registry
 - KHIE offers a LIVE interface for providers to report vaccinations and populate the immunization registry
 - Managed Care Organizations
 - Medicaid requires providers to connect to KHIE
 - Access provided to Case Managers for comprehensive case management/improved continuity of care



Hospitals



Imaging Center



Tightly Aligned Physicians



Owned Practices/
Clinics

What's Possible?
With a Connected Community

Better Coordination
 Safer Care
 More Cost-Effective Care



Community Pharmacy



Reference Lab



Patients



Loosely Affiliated Physicians



Non-affiliated Practices

Contacts

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