

North Carolina Data Matching Projects

Ed Norman, MPH, Program Supervisor

North Carolina Department of Environment
and Natural Resources
Division of Environmental Health



Revised North Carolina statewide screening plan

- Targeted screening
- Required screening for Medicaid, CHIP, & WIC children (at ages 1 & 2)
- Required more aggressive follow-up of children with low blood lead elevations



Initiatives

- Promotion of Medicaid screening requirement
- WIC screening initiative
- Expanded environmental investigation service (≥ 10 $\mu\text{g}/\text{dL}$) with increased reimbursement from Medicaid (\$438)

Increased testing as a result of targeted screening guidelines & policy initiatives:

North Carolina Childhood Lead Surveillance Data: 1995-2001

Year	Screened (<6 years)	Screened (1 & 2 yrs)	Percent Screened (1 & 2 yrs)	Confirmed 10-19 ug/dL	Confirmed >20 ug/dL
1995	87,889	44,308	21.9	717	178
1996	95,073 (+8%)	47,504 (+7%)	23.4	660 (-8%)	137 (-23%)
1997	95,425 (+0%)	49,601 (+4%)	24.1	543 (-18%)	114 (-17%)
1998	95,453 (+0%)	53,390 (+8%)	25.3	538 (-1%)	79 (-31%)
1999	105,857 (+11%)	66,640 (+25%)	30.5	563 (+5%)	80 (+1%)
2000	115,879 (+9%)	76,008 (+14%)	33.7	670 (+19%)	122 (+53%)
2001	119,975 (+4%)	81,988 (+8%)	35.0	454 (-32%)	72 (-41%)



WIC Data

Division of Public Health,
Women and Children's
Health Section



Blood Lead Data

Division of
Environmental Health

**State Center for
Health Statistics***

*Division of Public Health

Medicaid Data
Division of
Medical Assistance

Data

- Medicaid Claims Data
- Blood Lead Data
 - ASCII file, fields fixed length, file layout supplied

- Last name (LNAME)
- First name (FNAME)
- Date of Birth (DOB)
- County of Residence (CORES)
- Sex (SEX)
- Service Date (Medicaid) /Test Date (Blood Lead) (DATE)
- Medicaid Number (MEDICAID ID)

Medicaid Data (millions of records)

Procedure codes:
8010 (EPSDT), 8016

Calendar year

9-35 months of age

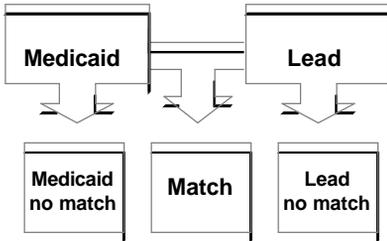
Denominator

Match Process

String=LNAME(15)+FNAME(10)+DOB+DATE+CORES+SEX

String=LNAME(5)+FNAME(3)+DOB

String=MEDICAID ID



output 100 records to check

Lead Screening Rates for Medicaid Children*

Age	1998		2001		1998 & 2001 % Change
	Number	%	Number	%	
9-17	43,261	40.9	55,384	51.0	+24.7
18-29	26,415	31.1	34,815	41.5	+33.4
9-35	67,248	41.4	84,196	53.7	+29.7

*Medicaid Children with a Health Check Visit
