Joint Legislative Program Evaluation Oversight Committee

Mothers, Babies and Medicaid

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Trends and Analysis of Mothers and Babies

This will primarily be a data presentation

DISCUSSION GUIDE

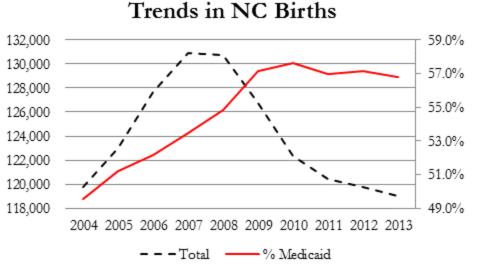
- Comparative Trends in Births
- Trends in C-Section Rates
- Trends in Infant Birth Weights
- Trends in Spending
- Observations and Next Step

There will be more questions raised than answered



Trends in NC Births

Percentage of births covered by Medicaid increased from about 50% in 2004 to about 57% in 2010, and continues at 57% of total births through 2013

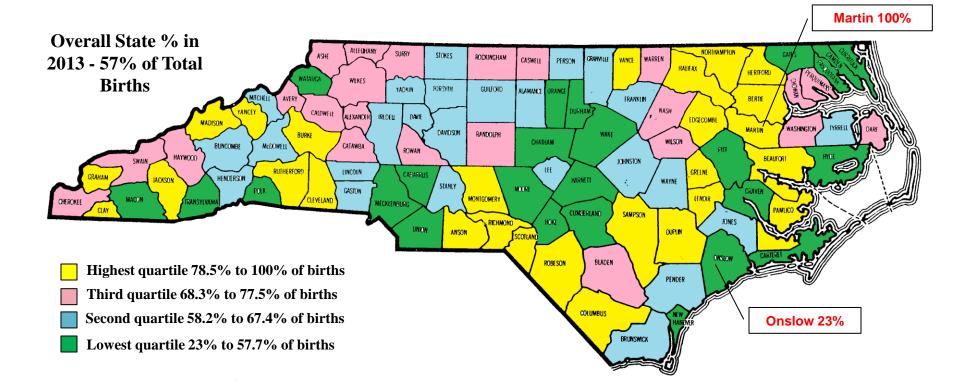


• The growth in the Medicaid percentage of total births is function Medicaid births growing at a rate faster than non-Medicaid births through 2010, then declining at a slower rate through 2013

Source: DHHS Data Warehouses and NC Birth Certificate Data





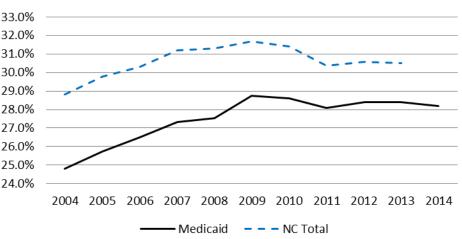


Source: DHHS Data Warehouses and NC Birth Certificate Data



Trends in Medicaid C-Section Rate

- Medicaid C-Section rates in NC lower than the rates for the general population
- Medicaid C-Section rates primary driver of State rates because the majority of births paid for by Medicaid



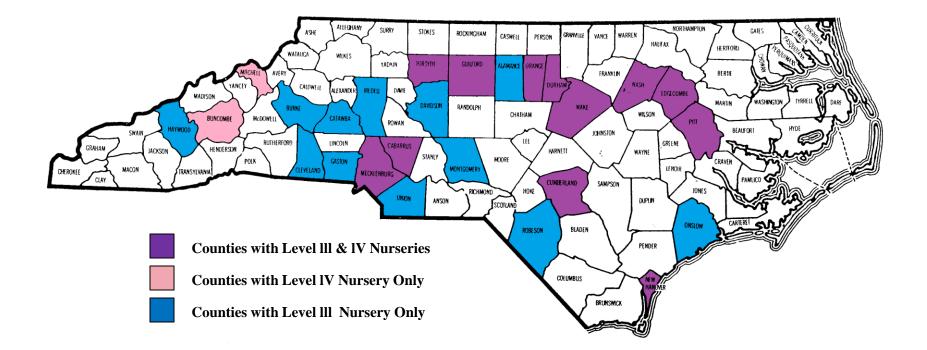
Trends in C-Section Rates

One Unanswered Question:

Data shows a positive trend in recent year's C-section rates...data not available to demonstrate absolutely what among programs implemented within and external to Medicaid has impacted this rate?



Locations of Higher Levels of Care for Newborns



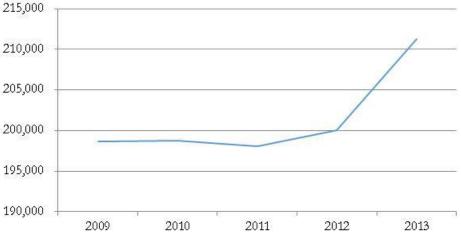
Source: DHHS Division of Health Services Regulation



Trends in Days Reported for Higher Levels of Care for Newborns

- Level III and IV
 are the highest level
 of hospital care
 offered to newborns
 in NC
- Days consistently reported by hospitals began to increase in 2012 for all babies

Source: DHHS Health Services Regulation



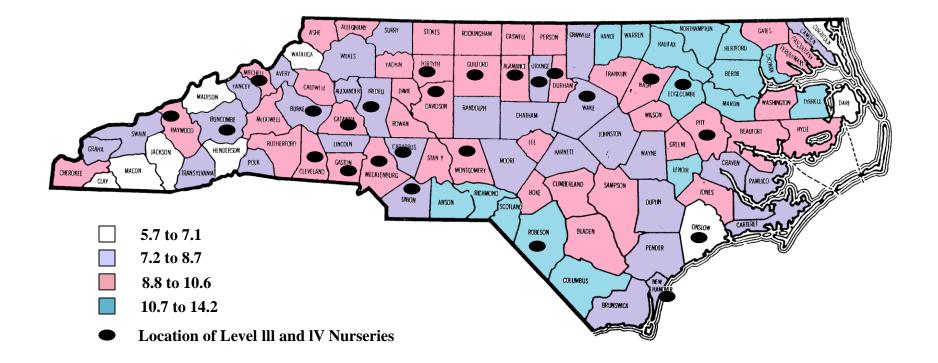
TOTAL LEVEL III and IV

One Unanswered Question:

With improvement in birth weights what is causing increase in Level III and IV days, how much is longer lengths of stay versus increased admissions – why?



Medicaid Low Birth Weights/1,000 Births



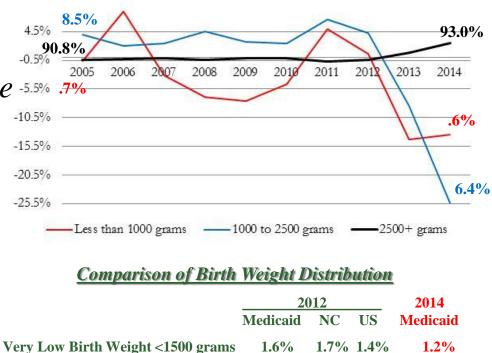
Source: DHHS Division of Health Services Regulation and UNC School of Public Health Presentations at HHS Appropriations



Trends in Medicaid Infant Birth Weights

- Birth weights one indicator of infant health

Less Than 500 Grams 500 to 749 Grams 750 to 999 Grams 1000 to 1499 Grams 1500 to 2499 Grams 2500+ Grams



Trends in Cumulative Change in Birth Weights

Low Birth Weight < 2500 grams

Source: DHHS Data Warehouses and NC Birth Certificate Data



9.0% 8.1%

7.0%

9.6%

39,723

129,632

123,156

72,550

19.575

5.550

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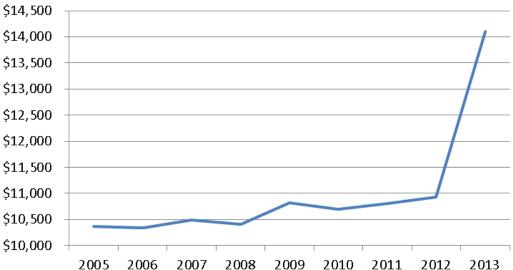
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Trends in Medicaid Spending on Births

Absolute costs include the actual payment for the shown of the shown of the shown of the shown of the pregnancy Medical shown of life shown of life shown of life shown of the shown of the



Medicaid Total Cost per Delivery and First Year of Life

Cost in 2013 includes one case with hospital payments of \$2.5 M, but this would only account for an overall increase in the average cost of only \$20. The increase in 2013 is primarily a function of payments to hospitals and physicians which increased the average cost by \$2,270

One Unanswered Question: What is driving change in 2013 hospital and physician spending? Source: DHHS Data Warehouses and NC Birth Certificate Data



Trends in Medicaid Spending on Births

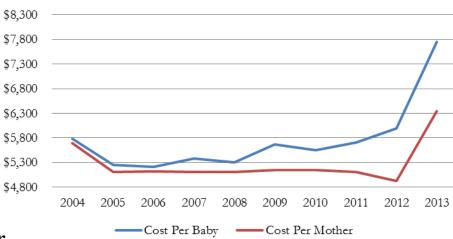
- Prior to 2013, C-section rates appear to be positively impacting absolute Medicaid spending for mothers.
- Absolute spending for infants \$4,800 trending upward after 2006 for

Medicaid spending in nearly every year.

One Unanswered Question:

How much is utilization, rates, consumption, mix or location of providers contributing to trends in Medicaid spending for mothers and babies?

Source: DHHS Data Warehouses and NC Birth Certificate Data



Trends in Medicaid Spending

Location & Mix Create Variations in Medicaid Spending

									Fu	ll Term		
		Base	N	ormal	С-	Section	Na	ormal	N	eonate	Pre	emature
٨		Rate	D_{i}	elivery	W/	/Comp	New	wborn	W/	'Comp	W	/Comp
University of North Carolina Hospital		\$ 4,531.66	\$	3,116	\$	5,554	\$	914	\$	7,319	\$	18,805
Vidant Medicaid Center		\$ 3,741.75	\$	2,573	\$	4,586	\$	755	\$	6,043	\$	15,527
North Carolina Baptist Hospital		\$ 3,741.68	\$	2,573	\$	4,586	\$	755	\$	6,043	\$	15,526
Duke University Hospital		\$ 3,709.22	\$	2,550	\$	4,546	\$	748	\$	5,991	\$	15,392
Carolinas Medical Center		\$ 3,103.68	\$	2,134	\$	3,804	\$	626	\$	5,013	\$	12,879
Durham Regional Hospital	als	\$ 2,875.69	\$	1,977	\$	3,524	\$	580	\$	4,645	\$	11,933
New Hanover Regional Medical Center	Hospitals	\$ 2,850.27	\$	1,960	\$	3,493	\$	575	\$	4,603	\$	11,827
WakeMed Raleigh Campus	OS	\$ 2,848.92	\$	1,959	\$	3,492	\$	575	\$	4,601	\$	11,822
Mission Hospital		\$ 2,811.06	\$	1,933	\$	3,445	\$	567	\$	4,540	\$	11,665
Moses H. Cone Memorial Hospital	Teaching	\$ 2,803.21	\$	1,927	\$	3,436	\$	565	\$	4,527	\$	11,632
Carolinas Medical Center - Northeast	chi	\$ 2,796.99	\$	1,923	\$	3,428	\$	564	\$	4,517	\$	11,606
Cape Fear Valley Medical Center	ea	\$ 2,763.73	\$	1,900	\$	3,387	\$	557	\$	4,464	\$	11,468
Union Regional Medical Center		\$ 2,756.16	\$	1,895	\$	3,378	\$	556	\$	4,451	\$	11,437
Mercy Hospitals	Other	\$ 2,747.50	\$	1,889	\$	3,367	\$	554	\$	4,437	\$	11,401
Forsyth Memorial Hospital	õ	\$ 2,746.69	\$	1,889	\$	3,366	\$	554	\$	4,436	\$	11,398
ALL OTHER		\$ 2,704.50	\$	1,860	\$	3,315	\$	545	\$	4,368	\$	11,223

One Unanswered Question: How has % of deliveries changed for each of these facilities?

The difference in the hospital rates reflect the graduate medical education addition to base rates for teaching hospitals

Source: Division of Medical Assistance



03/30/2015

Trends in Medicaid Spending on Births

\$1

\$1 \$1

\$1

\$1 \$1

- Rate reductions during the period impacted spending trends
- Price adjusted cost • normalizes spending for rate reductions implemented

\$16,500									
\$15,500									
\$14,500									· <u>·</u>
\$13,500									4
\$12,500									/
\$11,500								/	
\$10,500									
\$9,500									
	2005	2006	2007	2008	2009	2010	2011	2012	2013
	-	—— A	ctual Co	st 🗕	- Pric	e Adjus	ted Cost	;	

Trends in Cost per Baby

	FY	<i>2013-14 2013</i>
Less Than 500 Grams	\$	39,723
500 to 749 Grams	\$	129,632
750 to 999 Grams	\$	123,156
1000 to 1499 Grams	\$	72,550
1500 to 2499 Grams	\$	19,575
2500+ Grams	\$	5,550

Lowest birth weight babies cost as much on average as 20 times more than a baby born at 2,500 grams or higher

Source: DHHS Data Warehouses and NC Birth Certificate Data



Initiatives for Improving Outcomes

- Durham Connects in-home post delivery nurse visits for births in Durham County
- PQCNC focused on a variety of initiatives, education and programs, such as eliminating elective 39 week gestation periods
- Pregnancy Home –

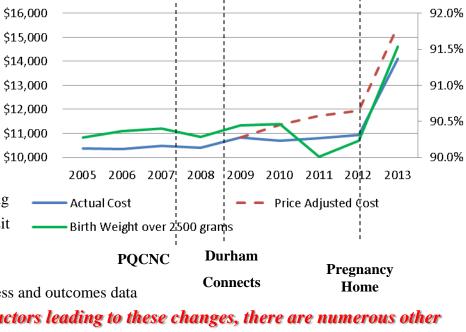
initiative through CCNC to lower c-section rate \$11,000 and improve birth weights:

- \$50 incentive to complete standardized risk screening
- \$150 incentive for performing post partum office visit
- Exemption from PA's for OB ultrasounds
- Enhanced rate for normal deliveries
- Care management, care manager and access to process and outcomes data

Actual data is not available to determine the exact factors leading to these changes, there are numerous other actions taken by other Divisions and Agencies/Organizations outside DHHS

One Unanswered Question: If infant birth weights are increasing, c-section rates are declining – why are average costs per delivery increasing?

Source: DHHS Data Warehouses and NC Birth Certificate Data



Trends in Medicaid Births

Summary

• <u>The data shows:</u>

- 1) Birth weights have improved and reported hospital days for neonates has increased,
- 2) C-section rates have started declining, and
- 3) Absolute Medicaid spending for prenatal, deliveries, CCNC and the 1st year of an infant's life are mostly flat in total prior to 2013; however, General Assembly actions to lower rates and change policy appear to be the primary factor driving Medicaid spending.
- <u>The data doesn't answer a lot of questions, but rather raises questions about</u>
 - a) What is/should the relationship between birth weights & c-section rates and costs & Level III and IV days?
 - b) Who is/should be looking at health outcomes for mothers & babies and costs from a system perspective?
 - c) What should NC be investing in to improve outcomes and lower costs?
 - c) Next steps?





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