Transparencies

Transparency 1

Epidemiology

... the study of the distribution and determinants of health-related states or events in specified populations and the application of this study to the control of health problems.

Epidemiology

... the study of how and why diseases are distributed in the population the way they are in other words, the study of why some get sick and some don't.

YES

The Robert Wood Johnson Foundation YOUNG EPIDEMIOLOGY SCHOLARS

Certificate of Live Birth

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Gental hereas 05 □ Placenta preva 05 □ Other consul nervous system anomalies 05 □ Other consul nervous system anomalies 05 □ Other consul nervous system anomalies 05 □ (5 pecify) (5 pecify) 05 □ (5 pecify) (7 pecipacitation) (7 pecipacitation) (5 pecify) (7 pecipacitation) (7 pecipacitation) </td <td></td> <td>Acute or chronic I Diabetes</td> <td>lung disease</td> <td></td> <td>Prematu</td> <td>re rupture of me placenta</td> <td>mbrane (>12</td> <td>hours) .</td> <td> 03 🗆</td> <td>Hydroc</td> <td>ephalus</td> <td></td> <td> 03 🖂</td>		Acute or chronic I Diabetes	lung disease		Prematu	re rupture of me placenta	mbrane (>12	hours) .	03 🗆	Hydroc	ephalus		03 🖂	
Hydraminos/Ubjørdramines 0 0 Other excessive bleeding 0.6 (Specify) (Specify) 0.5 Hydraminos/Ubjørdramines 0.6 0 Presipilia labor (<shuran)< td=""> 0.6 (Specify) (Specify) 0.5 Hydraminos, chronic 0.6 0 Presipinus labor (<shuran)< td=""> 0.6 0</shuran)<></shuran)<>		Genital herpes			Placenta	previa			05 🗆	Other o	entral nervous system a	nomalies		
Hypertension, chronic OB Precipitous labor (< 5 hours) OB Heart mailformations .06 Interfactor Heart mailformations .06 Interfactor Heart mailformations .06 Interfactor Heart mailformations .06 Interfactor Interfac		Hydramnios/Oligot Hemoglobinopathy	hydramnios		Other ex Seizures	cessive bleeding during labor			06 🗆	(Spec	sify)		05 🗆	
Eclampsia 0 If rotionged isbor 1>20 hours) 00 Unter croussivyrespiratory anomalies Eclampsia 10 Dysfunctional labor 10 (Specify) 07 Incompeter cervix 11 Bree/Matpresentation 11 (Specify) 08 Previous inflat 4000 - grams 12 Cephalopeixid (sarpopartion) 12 Faceto esophageal total Study Esophageal areas 08 Previous inflat 4000 - grams 12 Compolegase 13 Trachoe esophageal intrudy Esophageal areas 09 Inflat 13 Compolegase 14 Other gattorinestimal anomalies 09 Inflat 14 Fetul distress 15 Other gattorinestimal anomalies 11		Hypertension, chr	onic		Precipito	us labor (< 3 h	ours)			Heart n	nalformations	omalier	06 🗆	
Incompetent cervix 11 Direch/Maipresentation 11 Previous infrat A000 - grams 12 Cepahalopeixi disproportion 12 Previous pretem or small for gestational-age Cord polapes 13 Tache esophagai fistual Scophage atresia 09 Infant 13 Anstehtic complications 14 Ombulaced Advisorschins 00 Rend ideeses 14 Fetul distess 15 Other gastroinestinal anomalies Rend ideeses 14 Fetul distess 00 Rend ideeses 15 None 00		Eclampsia	gnancy-associated		Dysfunc	tional labor (>20 h	ours)		10 🗆	(Spe	cify)	or marites	07 🗆	
Previous pretermo small for gestational age 12 Compatipation 12 Tracher escaparational age 13 Infant 13 Anesthetic complications 14 Omphalocele/ Gastrochnias 10 Rend disease 14 Fetal distess 15 Other gastroinet sinal anomalies Rh sinstitution 15 Nore 00 (Specify)		Incompetent cervi	x		Breech/I	Malpresentation			11 🗖	Rectal	atresia/stenosis		08 🗖	
infant 13 Ansattelic complications 14 Omphaceue// Gastroschies 10 Renal disease 14 Fetal distess 15 Other gastrointestinal anomalies 10 Ris smitilization 15 None 00 (Specify) 11		Previous preterm of	or small-for-gestational	-age	Cephalo Cord pro	pervic disproporti plapse	on		12 🗀	Trached	esophageal fistula/Esc	phageal atresia	09 🗆	
Rh sensitization 15 None 00 (Specify) 11 0		Infant			Anesthe	tic complications			14 🗆	Omphal Other o	ocele/ Gastroschisis astrointestinal anomalie		10 🗆	
		Rh sensitization .		15 🖸	None .					(Spec			-11 0	

"Sports Birth Certificate"

	HE CITY OF NEW YORK DEPARTMENT OF HEALTH BUREAU OF VITAL RECORDS R TIFIC A TION OF BIRTH
This is a certification of name and birt	n facts on file in the Bureau of Vital Records, Department of Health, City of New York.
DATE OF OCTORER	11, 1982 CERTIFICATE 156-82-125289
вокоион МАМНАТТА	N PATE 10-20-82 Sale 04-06-87
NAME	JENNIFER ELIZABETH ROBERTSON
SEX	FEMALE
MOTHER'S MAIDEN NAME	MARY ANN WILLIAMS
FATHER'S NAME	DAVID ARTHUR ROBERTSON
Do not accept Health The rep Section 3.21 of	Arene & Scanlon HENE A SCANLON CITY REGISTRAP This transcript unless it bears the raised seal of the Department of roduction or alteration of this certification is prohibited by the New York City Health Code

25

Scenario

The Springfield, Massachusetts, Town Council thinks that the city may have a serious teenage pregnancy problem. The Council wants to know how many children were born to Springfield's teenagers during 2001. As the director of the Springfield's Office of Vital Statistics, you have the responsibility of answering this question. Your assistant has combed through copies of the 1,673 Certificates of Live Birth that were issued for children born at 11 hospitals in western Massachusetts during 2001. He has made copies of all the birth certificates that he thought were issued for children born to Springfield's teenagers. When he was in doubt, he made a copy of the certificate so that others could decide. These copies were placed on your desk at 2 p.m. You will meet with your staff in 15 minutes to review the certificates and prepare a 10-minute presentation for the Town Council meeting tomorrow.

Case Definition

A way to describe who has the health-related state by identifying what happened, where it happened and when it happened.

Source of Error

A limitation in a procedure or an instrument that causes an inaccuracy in the quantitative results.

Town Council Meeting

- Create a case definition of a teenage birth.
- Count the number of teenage births that occurred in Springfield in 2001.
- Prepare a 10-minute presentation for the Town Council meeting that includes responses to the following questions:
- 1. How many children were born to Springfield's teenagers during 2001?
- 2. Does Springfield have a serious problem with children being born to teenage mothers?
- 3. What sources of error may have affected their answer?

Stakeholder

Someone who represents a group of people and their interests.

Town Council Meeting

- Create a case definition of a teenage birth.
- Count the number of teenage births that occurred in Springfield in 2001.
- Prepare a 10-minute presentation for the Town Council meeting that includes responses to the following questions:
- 1. How many children were born to Springfield's teenagers during 2001?
- 2. Does Springfield have a serious problem with children being born to teenage mothers?
- 3. What sources of error may have affected their answer?

Teenage Birth



A live birth to a woman 15–19 years old

Is this a Certificate of Live Birth for a baby born to a Springfield, Massachusetts teenager during 2001?

CHILD	1. CHILD'S NAME (First, Middle, Last, Suffix) Angela Miller				2. TIME OF BIRTH 21:07 (24hr)	3. SEX F	4. DATE OF BIRTH (Mo/Da 10 / 30 / 01	
	5. FACILITY NAME (If not institution, give stree Holyoke Hospital	UTY NAME (If not institution, give street and number)			OR LOC	ATION OF BIRTH	7. COL Ha	INTY OF BIRTH
NOTHER	8a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix) Linda Miller			E I	Bb. DAT	E OF BIRTH (Mo/Day/Y	° 11.	/ 31 / 83
BC. MOTHER'S NAME PRIOR TO FIRST MAR		ARRIAGE (First, Middle, Last, Suffix)			8d. BIRTHPLACE (State, Territory, or Foreign Country)			
	9a RESIDENCE OF MOTHER STATE 9b. COUN Massachusetts Ham				9c. Cr	TY, TOWN, OR LOCAT	ION	
	9d. STREET AND NUMBER 73 Northern Boulevard			98. APT. 2	NO.	9f. ZIP CODE 01102		9g. INSIDE CTI LIMITS? Oves a No
	10a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)		10b. DA	TE OF BIF	RTH (Mo	Day/Yr) 10c. BiRT	HPLACE	(State, Territory, or Foreign Cour

Is this a Certificate of Live Birth for a baby born to a Springfield, Massachusetts teenager during 2001?

C LL L D	1. CHILD'S NAME (First, Middle, Last, Suffix)	BARTH	NUMBER		2. TIME OF BIRTH	3. SEX	4. DATE OF BIRTH MANDay	
SHILD	Olaf Sigfried		2		20:12 (2410)	Μ	08/28/01	
	5. FACILITY NAME (If not institution, give street and number) Mercy Medical Center			nafield	CATION OF BIRTH	7. cou Han	NTY OF BIRTH NDden	
MOTHER	Michelle Daniels			No. DA	TE OF BIRTH (MoDay)	[™] 01 /	/ 02 / 83	
	Michelle Daniels			6d. BIRTHPLACE (State, Territory, or Fureign Country) Texas				
	Massachusetts	Hampden		Pa	almer	TION		
	1004 Wallingford Terra	ace	10	M. APT, NO.	01069		9g. INSIDE CITI LIMITS? (D'res @ No	
EATHER	10a. FATHER'S CURRENT LEGAL NAME (First Middle, Last, Suffix)			E OF BIRTH (M	RTH (MarDay/Vr) 10c. BIRTH		State, Territory, or Foreign Court	
TATTEN	Sven Slafried		04/3	22/78	Sw	eden		

Is this a Certificate of Live Birth for a baby born to a Springfield, Massachusetts, teenager during 2001?

CAL FILE NO.	BIRTH N	IUMBER:					
HILD	1. CHILD'S NAME (First, Middle, Last, Suffix) Dexter Lopina			2. TIME OF BIRTH 13:13 (24hr)	3. SEX M	4. DATE OF BIRTH (Mo/Day/) 10/11/01	
	5. FACILITY NAME (If not institution, give street and number) Mercy Medical Center	6. ату, том Spring	vN, OR LOC gfield	ATION OF BIRTH	7. COL Ha	INTY OF BIRTH	
IOTHER	HER ^{8a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)} Julia Lopina		8b. DAT	ΈΟΓ BIRTΗ (Mo/Day/	^(r) 03/	03/81	
	8c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix) Julia Donovan	8		ACE (State, Territory, c YORK	r Foreign Co	ountry)	
	9a. RESIDENCE OF MOTHER-STATE 9b. COUNTY Massachusetts Hampden		90. CI	TY, TOWN, OR LOCA	TION		
	9d. STREET AND NUMBER 237 Hesper Drive	9e. APT. NO.). 9f. ZIP CODE 01102		9g. INSIDE CITY LIMITS? @∕es ■ No	
ATHER	10a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix) Huxley Lopina	10b. DATE OF BIRTH (Mo/Day/Yr)		νDay/Yr) 10c. BIR Μ	(r) 10c. BIRTHPLACE (State, Territory, or Foreign Co		

Is this a Certificate of Live Birth for a baby born to a Springfield, Massachusetts, teenager during 2001?

CAL FILE NO.	0.5. STANDARD CERTIFICA	NUMBER:		IN		
HILD	1. CHILD'S NAME (First, Middle, Last, Suffix) Patsy Briar Rose			2. TIME OF BIRT	4hr) F	4. DATE OF BIRTH (Mo/Day/Y 06/26/01
	5. FACILITY NAME (If not institution, give street and number) Mercy Medical Center	6. ату, та Sprir	MN, OR LOG	CATION OF BIRTH		JNTY OF BIRTH ampden
IOTHER	IER ^{8a, MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)} MOIly Rose		8b. DA ⁻	TE OF BIRTH (Mo)	Day/Yr) 01/	30/87
	8c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix)		8d. BIRTHPI	LACE (State, Territo Sachuset	ory, or Foreign Co ts	ountry)
	9a. RESIDENCE OF MOTHER-STATE 9b. COUNTY Massachusetts Hampden		9c. C	ITY, TOWN, OR L Springfield	OCATION	
	9d. STREET AND NUMBER 3476 Washington Drive		APT. NO.	9f. ZIP CODE 01102		9g. INSIDE CITY LIMITS? @res ■ No
	10a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)		10b. DATE OF BIRTH (Mo/Day		(Mo/Day/Yr) 10c. BIRTHPLACE (State, Territory, or Forei	

Is this a Certificate of Live Birth for a baby born to a Springfield, Massachusetts, teenager during 2001?

CAL FILE NO.	BIRTH	NUMBER:		0. THE				
HILD	1. CHILD'S NAME (First, Middle, Last, Suffix) Kendra Wilkins		-	2. TIME OF 20:51	(24hr) F	4. DATE OF 03/2	ыктн (мо/Day/\ 21/01	
	5. FACILITY NAME (If not institution, give street and number) Mercy Medical Center	6. ату, тоу Sprin	MN, OR LOC	ATION OF E	иктн 7. со Н	OUNTY OF BIRT	H I	
IOTHER	HER Ba. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix) Juanita Jose Bc. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix) Juanita Jose		8b. DAT	IE OF BIRTH	1(Mo/Day/Yr) 02	2/05/81		
			id BIRTHPL	_ACE (State, ` / Mexic	Territory, or Foreign	Country)		
	9a. RESIDENCE OF MOTHER-STATE 9b. COUNTY Massachusetts Hampden		9c. CI	птү, тоwn, i Springfi	OR LOCATION			
	9d. STREET AND NUMBER 5387 Jones Street		APT. NO.	9f. ZIP CODE 01102			9g. INSIDE CITY LIMITS? @res ■ No	
	10a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)	10b. DATE OF BIRTH (M		TH (Mo/Day/Yr) 10c. BIRTHPLACE (State, Ter		E (State, Territory	ritory, or Foreign Country	
ATHER	Robert Wilkins	03/13/80		Massachusetts		5		

Teenage Birth Rate



Number of live births to women 15–19 years old divided by the number of women 15–19 years old multiplied by 1,000

Teenage Pregnancies



Number of Live Births

- + Number of Stillbirths
- + Number of Pregnancies Electively Terminated
- + Number of Pregnancies Spontaneously Miscarried

AGE OF MOTHER

Age in Years	Number
10-12	21
13-14	697
15-19	39972
20	16491

AGE OF MOTHER

	Age in Years	Number				
	10-12	21				
	13	114				
	14	583				
40,690	15	1935				
	16 > 40,669	4217				
	17	7520 > 39,972				
	18	11075				
	19	15225				
	20	16491				

RACE/ETHNICITY OF MOTHER

Race / Ethnicity	Number
Hispanic	14851
Non-Hispanic White	25586
Non-Hispanic Black	14375
Non-Hispanic Other races	1836
Unknown	533



Distribution of Teenage Births by Race/Ethnicity of Mother, Jan. 2000, U.S.



BIRTHWEIGHT

Baby's Weight (in grams)	Number
1499 or less (very low)	928
1500 - 2499 (low)	4458
2500 or more (normal)	51740
Unknown	55

Distribution of Teenage Births by Baby's Birth Weight, Jan. 2000, U.S.





Distribution of Teenage Births by Baby's Birth Weight, Jan. 2000, U.S.

AGE OF FATHER and AGE OF MOTHER

Father's Age					
in Years	10-12	13-14	15-19	20	
10-12	0	0	2	0	
13-14	1	6	12	1	
15-19	1	148	9209	1158	
20	0	18	4089	1471	
21 or older	1	21	13060	9633	
Unknown	18	504	13600	4228	

Is this a Certificate of Live Birth for a baby born to a Springfield, Massachusetts teenager during 2001?

CHILD	1. CHILD'S NAME (First, Middle, Last, Suffix) Angela Miller					2. TIME OF BIRTH 21:07 (24hr)	3. SEX F	4. DATE OF BIRTH (Mo/Da 10 / 30 / 01
	5. FACILITY NAME (If not institution, give stree Holyoke Hospital	st and number)	6. CITY HC	, TOWN, O	OR LOC	ATION OF BIRTH	7. COL Ha	INTY OF BIRTH
OTHER	84. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)		E I	Bb. DAT	E OF BIRTH (Mo/Day/Y	° 11.	/ 31 / 83
	8c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix)			8d. E		ACE (State, Territory, or Ornia	Foreign Co	ountry)
	Ba REBIDENCE OF MOTHER-STATE Massachusetts	Bb. COUNTY Hampden			9c. Cr	TY, TOWN, OR LOCAT	ION	
	9d. STREET AND NUMBER 73 Northern Boulevar	d		98. APT. 2	NO.	9f. ZIP CODE 01102		9g. INSIDE CTI LIMITS? Oves I No
	10a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)	10b. DA	TE OF BIF	RTH (Mo	Day/Yr) 10c. BiRT	HPLACE	(State, Territory, or Foreign Cour

AGE OF FATHER

Age in Years	Number
10-12	2
13-14	20
15-19	10516
20	5578
21 or older	22715
Unknown	18350

Bank	State	Number of Births to 15- to	
1	California		
1.		4,040	
2.	Elorido	4,562	
3.	Fiolida New York	2,000	
4. 5		1,017	
5.		1,814	
0.	Onio	1,054	
7.	Georgia	1,472	
8.	North Carolina	1,313	
9.	Michigan	1,241	
10.	Pennsylvania	1,165	
11.	Tennessee	1,016	
12.	Arizona	1,033	
13.	Louisiana	999	
14.	Indiana	948	
15.	Virginia	826	
16.	Missouri	821	
17.	Alabama	816	
18.	New Jersey	699	
19.	South Carolina	745	
20.	Mississippi	706	
21.	Oklahoma	687	
22.	Washington	679	
23.	Kentucky	642	
24.	Maryland	624	
25.	Wisconsin	616	
26.	Colorado	613	
27.	Arkansas	550	
28.	Massachusetts	480	
29.	Minnesota	459	
30.	Oregon	424	

States Ranked by Number of Births to 15- to 19- Year Olds.

D -		Number of Births to 15- to	
Rank	State	19-Year-Olds	
31.	Kansas	399	
32.	New Mexico	363	
33.	Utah	349	
34.	Iowa	331	
35.	Nevada	311	
36.	Connecticut	270	
37.	West Virginia	241	
38.	Nebraska	203	
39.	Idaho	192	
40.	Hawaii	156	
41.	Delaware	108	
42.	Maine	108	
43.	Rhode Island	101	
44.	Alaska	99	
45.	South Dakota	98	
46.	Montana	92	
47.	New Hampshire	88	
48.	Wyoming	80	
49.	North Dakota	56	
50.	Vermont	40	

States Ranked by Number of Births to 15- to 19- Year Olds. (Continued)

National newspaper journalist for the leading newspaper in Missouri

What do journalists look for in a news story? What will they want to portray for their readers? What will sell their newspapers?

State senator seeking reelection in your state

The senator ran on a ticket to reduce teenage pregnancy. Her campaign speeches highlighted the problem of teen pregnancy in your state, and the senator claimed to have a surefire way to solve the problem.

A member of a team writing a grant to get funding to implement a teenage pregnancy prevention program in your state

What information would they wish to cite in order to justify the need for funds for the program?

A federal epidemiologist from the Centers for Disease Control and Prevention (CDC)

She is responsible for providing monthly stateby-state reports of teen birth rates.

Ranked by Number of Births				
<u>Rank</u>	State	<u>Number of 15-19</u> Year Old Births		
1.	California	4,640		
2.	Texas	4,582		
3.	Florida	2,086		
4.	New York	1,817		
5.	Illinois	1,814		
6.	Ohio	1,654		
7.	Georgia	1,472		
8.	North Carolina	1,313		
9.	Michigan	1,241		
10.	Pennsylvania	1,165		
11.	Tennessee	1,016		
12.	Arizona	1,033		
13.	Louisiana	999		
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Ranked by Number of Births					
		Number of 15-19	Number of 15-19		
<u>Rank</u>	<u>State</u>	<u>Year Old Births</u>	<u>Year Olds</u>		
1.	California	4,640			
2.	Texas	4,582			
3.	Florida	2,086			
4.	New York	1,817			
5.	Illinois	1,814			
6.	Ohio	1,654			
7.	Georgia	1,472			
8.	North Carolina	1,313			
9.	Michigan	1,241			
10.	Pennsylvania	1,165			
11.	Tennessee	1,016			
12.	Arizona	1,033			
13.	Louisiana	999			
14.	Indiana	948			
15.	Virginia	826			
16.	Missouri	821			
17.	Alabama	816			
18.	New Jersey	699			
19.	South Carolina	745			
20.	Mississippi	706			
21.	Oklahoma	687			
22.	Washington	679			
23.	Kentucky	642			
24.	Maryland	624			
25.	Wisconsin	616			
26.	Colorado	613			
27.	Arkansas	550			
28.	Massachusetts	480			
29.	Minnesota	459			

Ranked by Number of Births					
Rank	State	<u>Number of 15-19</u> Vear Old Births	Number of 15-19 Year Olds		
30.	Oregon	424			
31.	Kansas	399			
32.	New Mexico	363			
33.	Utah	349			
34.	lowa	331			
35.	Nevada	311			
36.	Connecticut	270			
37.	West Virginia	241			
38.	Nebraska	203			
39.	Idaho	192			
40.	Hawaii	156			
41.	Delaware	108			
42.	Maine	108			
43.	Rhode Island	101			
44.	Alaska	99			
45.	South Dakota	98			
46.	Montana	92			
47.	New Hampshire	88			
48.	Wyoming	80			
49.	North Dakota	56			
50.	Vermont	40			

Ranked by Number of Births				
		Number of 15-19	Number of 15-19	
<u>Rank</u>	<u>State</u>	Year Old Births	<u>Year Olds</u>	
1.	California	4,640	1,170,979	
2.	Texas	4,582	724,203	
3.	Florida	2,086	513,308	
4.	New York	1,817	659,261	
5.	Illinois	1,814	453,540	
6.	Ohio	1,654	442,599	
7.	Georgia	1,472	327,712	
8.	North Carolina	1,313	269,050	
9.	Michigan	1,241	391,731	
10.	Pennsylvania	1,165	430,015	
11.	Tennessee	1,016	164,404	
12.	Arizona	1,033	206,466	
13.	Louisiana	999	206,773	
14.	Indiana	948	191,235	
15.	Virginia	826	222,455	
16.	Missouri	821	108,275	
17.	Alabama	816	190,987	
18.	New Jersey	699	306,608	
19.	South Carolina	745	161,962	
20.	Mississippi	706	122,902	
21.	Oklahoma	687	106,737	
22.	Washington	679	229,294	
23.	Kentucky	642	150,943	
24.	Maryland	624	100,825	
25.	Wisconsin	616	220,983	
26.	Colorado	613	132,143	
27.	Arkansas	550	67,376	
28.	Massachusett	480	206,497	
29.	Minnesota	459	171,303	

Ranked by Number of Births				
		Number of 15-19	Number of 15-19	
<u>Rank</u>	<u>State</u>	<u>Year Old Births</u>	<u>Year Olds</u>	
30.	Oregon	424	117,013	
31.	Kansas	399	135,127	
32.	New Mexico	363	64,692	
33.	Utah	349	97,542	
34.	lowa	331	84,407	
35.	Nevada	311	53,090	
36.	Connecticut	270	94,552	
37.	West Virginia	241	58,067	
38.	Nebraska	203	84,597	
39.	Idaho	192	58,792	
40.	Hawaii	156	45,694	
41.	Delaware	108	21,287	
42.	Maine	108	48,752	
43.	Rhode Island	101	25,125	
44.	Alaska	99	24,881	
45.	South Dakota	98	41,148	
46.	Montana	92	40,941	
47.	New	88	39,665	
48.	Wyoming	80	16,673	
49.	North Dakota	56	27,311	
50.	Vermont	40	23,731	

	Ranked by Number of Births					
Rank	State	<u>Number of 15-19</u> Year Old Births	Number of 15-19 Year Olds			
1.	California	4.640	1.170.979			
2.	Texas	4.582	724.203			
3.	Florida	2,086	513,308			
4.	New York	1,817	659,261			
5.	Illinois	1,814	453,540			
6.	Ohio	1,654	442,599			
7.	Georgia	1,472	327,712			
8.	North Carolina	1,313	269,050			
9.	Michigan	1,241	391,731			
10.	Pennsylvania	1,165	430,015			
11.	Tennessee	1,016	164,404			
12.	Arizona	1,033	206,466			
13.	Louisiana	999	206,773			
14.	Indiana	948	191,235			
15.	Virginia	826	222,455			
16.	Missouri	821	108,275			
17.	Alabama	816	190,987			
18.	New Jersey	699	306,608			
19.	South Carolina	745	161,962			
20.	Mississippi	706	122,902			
21.	Oklahoma	687	106,737			
22.	Washington	679	229,294			
23.	Kentucky	642	150,943			
24.	Maryland	624	100,825			
25.	Wisconsin	616	220,983			
26.	Colorado	613	132,143			
27.	Arkansas	550	67,376			
28.	Massachusetts	480	206,497			
29.	Minnesota	459	171,303			

	Ranked by Number of Births					
<u>Rank</u>	<u>State</u>	<u>Number of 15-19</u> <u>Year Old Births</u>	<u>Number of 15-19</u> <u>Year Olds</u>			
30.	Oregon	424	117,013			
31.	Kansas	399	135,127			
32.	New Mexico	363	64,692			
33.	Utah	349	97,542			
34.	lowa	331	84,407			
35.	Nevada	311	53,090			
36.	Connecticut	270	94,552			
37.	West Virginia	241	58,067			
38.	Nebraska	203	84,597			
39.	Idaho	192	58,792			
40.	Hawaii	156	45,694			
41.	Delaware	108	21,287			
42.	Maine	108	48,752			
43.	Rhode Island	101	25,125			
44.	Alaska	99	24,881			
45.	South Dakota	98	41,148			
46.	Montana	92	40,941			
47.	New Hampshire	88	39,665			
48.	Wyoming	80	16,673			
49.	North Dakota	56	27,311			
50.	Vermont	40	23,731			

Ranked by Number of Births					
		Number of 15-19	Number of 15-19		
Rank	State	Year Old Births	Year Olds	Birth Rate	
1.	California	4,640	1,170,979		
2.	Texas	4,582	724,203		
3.	Florida	2,086	513,308		
4.	New York	1,817	659,261		
5.	Illinois	1,814	453,540		
6.	Ohio	1,654	442,599		
7.	Georgia	1,472	327,712		
8.	North Carolina	1,313	269,050		
9.	Michigan	1,241	391,731		
10.	Pennsylvania	1,165	430,015		
11.	Tennessee	1,016	164,404		
12.	Arizona	1,033	206,466		
13.	Louisiana	999	206,773		
14.	Indiana	948	191,235		
15.	Virginia	826	222,455		
16.	Missouri	821	108,275		
17.	Alabama	816	190,987		
18.	New Jersey	699	306,608		
19.	South Carolina	745	161,962		
20.	Mississippi	706	122,902		
21.	Oklahoma	687	106,737		
22.	Washington	679	229,294		
23.	Kentucky	642	150,943		
24.	Maryland	624	100,825		
25.	Wisconsin	616	220,983		
26.	Colorado	613	132,143		
27.	Arkansas	550	67,376		
28.	Massachusetts	480	206,497		
29.	Minnesota	459	171,303		

Ranked by Number of Births					
Rank	State	<u>Number of 15-19</u> Year Old Births	<u>Number of 15-19</u> <u>Year Olds</u>	Birth Rate	
30.	Oregon	424	117,013		
31.	Kansas	399	135,127		
32.	New Mexico	363	64,692		
33.	Utah	349	97,542		
34.	lowa	331	84,407		
35.	Nevada	311	53,090		
36.	Connecticut	270	94,552		
37.	West Virginia	241	58,067		
38.	Nebraska	203	84,597		
39.	Idaho	192	58,792		
40.	Hawaii	156	45,694		
41.	Delaware	108	21,287		
42.	Maine	108	48,752		
43.	Rhode Island	101	25,125		
44.	Alaska	99	24,881		
45.	South Dakota	98	41,148		
46.	Montana	92	40,941		
47.	New Hampshire	88	39,665		
48.	Wyoming	80	16,673		
49.	North Dakota	56	27,311		
50.	Vermont	40	23,731		

Ranked by Number of Births					
		Number of 15-19	Number of 15-19		
<u>Rank</u>	<u>State</u>	Year Old Births	Year Olds	<u>Birth Rate</u>	
1.	California	4,640	1,170,979	0.0039624	
2.	Texas	4,582	724,203	0.0063269	
3.	Florida	2,086	513,308	0.0040638	
4.	New York	1,817	659,261	0.0027561	
5.	Illinois	1,814	453,540	0.0039996	
6.	Ohio	1,654	442,599	0.0037370	
7.	Georgia	1,472	327,712	0.0044917	
8.	North Carolina	1,313	269,050	0.0048801	
9.	Michigan	1,241	391,731	0.0031679	
10.	Pennsylvania	1,165	430,015	0.0027092	
11.	Tennessee	1,016	164,404	0.0061798	
12.	Arizona	1,033	206,466	0.0050032	
13.	Louisiana	999	206,773	0.0048313	
14.	Indiana	948	191,235	0.0049572	
15.	Virginia	826	222,455	0.0037131	
16.	Missouri	821	108,275	0.0075825	
17.	Alabama	816	190,987	0.0042725	
18.	New Jersey	699	306,608	0.0022797	
19.	South Carolina	745	161,962	0.0045998	
20.	Mississippi	706	122,902	0.0057444	
21.	Oklahoma	687	106,737	0.0064363	
22.	Washington	679	229,294	0.0029612	
23.	Kentucky	642	150,943	0.0042532	
24.	Maryland	624	100,825	0.0061889	
25.	Wisconsin	616	220,983	0.0027875	
26.	Colorado	613	132,143	0.0046389	
27.	Arkansas	550	67,376	0.0081631	
28.	Massachusetts	480	206,497	0.0023244	
29.	Minnesota	459	171,303	0.0026794	

Ranked by Number of Births					
		Number of 15-19	Number of 15-19		
<u>Rank</u>	<u>State</u>	Year Old Births	<u>Year Olds</u>	<u>Birth Rate</u>	
30.	Oregon	424	117,013	0.0036235	
31.	Kansas	399	135,127	0.0029527	
32.	New Mexico	363	64,692	0.0056112	
33.	Utah	349	97,542	0.0035779	
34.	lowa	331	84,407	0.0039214	
35.	Nevada	311	53,090	0.0058579	
36.	Connecticut	270	94,552	0.0028555	
37.	West Virginia	241	58,067	0.0041503	
38.	Nebraska	203	84,597	0.0023996	
39.	Idaho	192	58,792	0.0032657	
40.	Hawaii	156	45,694	0.0034140	
41.	Delaware	108	21,287	0.0050735	
42.	Maine	108	48,752	0.0022152	
43.	Rhode Island	101	25,125	0.0040199	
44.	Alaska	99	24,881	0.0039789	
45.	South Dakota	98	41,148	0.0023816	
46.	Montana	92	40,941	0.0022471	
47.	New Hampshire	88	39,665	0.0022185	
48.	Wyoming	80	16,673	0.0047981	
49.	North Dakota	56	27,311	0.0020504	
50.	Vermont	40	23,731	0.0016855	

	Ranked by Number of Births					
Rank	State	<u>Number of 15-19</u> Year Old Births	Number of 15-19 Year Olds	Birth Rate		
1	California	<u>4 640</u>	<u>1 170 070</u>	0.0039624		
2	Tevas	4 582	724 203	0.0003269		
3	Florida	2.086	513 308	0.0000200		
4	New York	1 817	659 261	0.0027561		
5	Illinois	1 814	453 540	0.0039996		
6	Ohio	1,654	442 599	0.0037370		
7	Georgia	1 472	327 712	0.0044917		
8.	North Carolina	1.313	269.050	0.0048801		
9.	Michigan	1.241	391.731	0.0031679		
10.	Pennsvlvania	1.165	430.015	0.0027092		
11.	Tennessee	1.016	164,404	0.0061798		
12.	Arizona	1,033	206,466	0.0050032		
13.	Louisiana	999	206,773	0.0048313		
14.	Indiana	948	191,235	0.0049572		
15.	Virginia	826	222,455	0.0037131		
16.	Missouri	821	108,275	0.0075825		
17.	Alabama	816	190,987	0.0042725		
18.	New Jersey	699	306,608	0.0022797		
19.	South Carolina	745	161,962	0.0045998		
20.	Mississippi	706	122,902	0.0057444		
21.	Oklahoma	687	106,737	0.0064363		
22.	Washington	679	229,294	0.0029612		
23.	Kentucky	642	150,943	0.0042532		
24.	Maryland	624	100,825	0.0061889		
25.	Wisconsin	616	220,983	0.0027875		
26.	Colorado	613	132,143	0.0046389		
27.	Arkansas	550	67,376	0.0081631		
28.	Massachusetts	480	206,497	0.0023244		
29.	Minnesota	459	171,303	0.0026794		

Ranked by Number of Births					
	01.1	Number of 15-19	Number of 15-19		
<u>Rank</u>	State	<u>Year Old Births</u>	<u>Year Olds</u>	<u>Birth Rate</u>	
30.	Oregon	424	117,013	0.0036235	
31.	Kansas	399	135,127	0.0029527	
32.	New Mexico	363	64,692	0.0056112	
33.	Utah	349	97,542	0.0035779	
34.	lowa	331	84,407	0.0039214	
35.	Nevada	311	53,090	0.0058579	
36.	Connecticut	270	94,552	0.0028555	
37.	West Virginia	241	58,067	0.0041503	
38.	Nebraska	203	84,597	0.0023996	
39.	Idaho	192	58,792	0.0032657	
40.	Hawaii	156	45,694	0.0034140	
41.	Delaware	108	21,287	0.0050735	
42.	Maine	108	48,752	0.0022152	
43.	Rhode Island	101	25,125	0.0040199	
44.	Alaska	99	24,881	0.0039789	
45.	South Dakota	98	41,148	0.0023816	
46.	Montana	92	40,941	0.0022471	
47.	New	88	39,665	0.0022185	
48.	Wyoming	80	16,673	0.0047981	
49.	North Dakota	56	27,311	0.0020504	
50.	Vermont	40	23,731	0.0016855	

Ranked by Number of Births						
		Number of 15-19	Number of 15-19		Birth Rate	
<u>Rank</u>	<u>State</u>	Year Old Births	Year Olds	<u>Birth Rate</u>	<u>X 1,000</u> *	
1.	California	4,640	1,170,979	0.0039624		
2.	Texas	4,582	724,203	0.0063269		
3.	Florida	2,086	513,308	0.0040638		
4.	New York	1,817	659,261	0.0027561		
5.	Illinois	1,814	453,540	0.0039996		
6.	Ohio	1,654	442,599	0.0037370		
7.	Georgia	1,472	327,712	0.0044917		
8.	North Carolina	1,313	269,050	0.0048801		
9.	Michigan	1,241	391,731	0.0031679		
10.	Pennsylvania	1,165	430,015	0.0027092		
11.	Tennessee	1,016	164,404	0.0061798		
12.	Arizona	1,033	206,466	0.0050032		
13.	Louisiana	999	206,773	0.0048313		
14.	Indiana	948	191,235	0.0049572		
15.	Virginia	826	222,455	0.0037131		
16.	Missouri	821	108,275	0.0075825		
17.	Alabama	816	190,987	0.0042725		
18.	New Jersey	699	306,608	0.0022797		
19.	South Carolina	745	161,962	0.0045998		
20.	Mississippi	706	122,902	0.0057444		
21.	Oklahoma	687	106,737	0.0064363		
22.	Washington	679	229,294	0.0029612		
23.	Kentucky	642	150,943	0.0042532		
24.	Maryland	624	100,825	0.0061889		
25.	Wisconsin	616	220,983	0.0027875		
26.	Colorado	613	132,143	0.0046389		
27.	Arkansas	550	67,376	0.0081631		
28.	Massachusetts	480	206,497	0.0023244		
29.	Minnesota	459	171,303	0.0026794		

Ranked by Number of Births					
		Number of 15-19	Number of 15-19		Birth Rate
<u>Rank</u>	<u>State</u>	Year Old Births	Year Olds	<u>Birth Rate</u>	<u>X 1,000</u> *
30.	Oregon	424	117,013	0.0036235	
31.	Kansas	399	135,127	0.0029527	
32.	New Mexico	363	64,692	0.0056112	
33.	Utah	349	97,542	0.0035779	
34.	lowa	331	84,407	0.0039214	
35.	Nevada	311	53,090	0.0058579	
36.	Connecticut	270	94,552	0.0028555	
37.	West Virginia	241	58,067	0.0041503	
38.	Nebraska	203	84,597	0.0023996	
39.	Idaho	192	58,792	0.0032657	
40.	Hawaii	156	45,694	0.0034140	
41.	Delaware	108	21,287	0.0050735	
42.	Maine	108	48,752	0.0022152	
43.	Rhode Island	101	25,125	0.0040199	
44.	Alaska	99	24,881	0.0039789	
45.	South Dakota	98	41,148	0.0023816	
46.	Montana	92	40,941	0.0022471	
47.	New Hampshire	88	39,665	0.0022185	
48.	Wyoming	80	16,673	0.0047981	
49.	North Dakota	56	27,311	0.0020504	
50.	Vermont	40	23,731	0.0016855	

Ranked by Number of Births						
		Number of 15-19	Number of 15-19		Birth Rate	
<u>Rank</u>	<u>State</u>	Year Old Births	Year Olds	<u>Birth Rate</u>	<u>X 1,000</u> *	
1.	California	4,640	1,170,979	0.0039624	3.9624	
2.	Texas	4,582	724,203	0.0063269	6.3269	
3.	Florida	2,086	513,308	0.0040638	4.0638	
4.	New York	1,817	659,261	0.0027561	2.7561	
5.	Illinois	1,814	453,540	0.0039996	3.9996	
6.	Ohio	1,654	442,599	0.0037370	3.737	
7.	Georgia	1,472	327,712	0.0044917	4.4917	
8.	North Carolina	1,313	269,050	0.0048801	4.8801	
9.	Michigan	1,241	391,731	0.0031679	3.1679	
10.	Pennsylvania	1,165	430,015	0.0027092	2.7092	
11.	Tennessee	1,016	164,404	0.0061798	6.1798	
12.	Arizona	1,033	206,466	0.0050032	5.0032	
13.	Louisiana	999	206,773	0.0048313	4.8313	
14.	Indiana	948	191,235	0.0049572	4.9572	
15.	Virginia	826	222,455	0.0037131	3.7131	
16.	Missouri	821	108,275	0.0075825	7.5825	
17.	Alabama	816	190,987	0.0042725	4.2725	
18.	New Jersey	699	306,608	0.0022797	2.2797	
19.	South Carolina	745	161,962	0.0045998	4.5998	
20.	Mississippi	706	122,902	0.0057444	5.7444	
21.	Oklahoma	687	106,737	0.0064363	6.4363	
22.	Washington	679	229,294	0.0029612	2.9612	
23.	Kentucky	642	150,943	0.0042532	4.2532	
24.	Maryland	624	100,825	0.0061889	6.1889	
25.	Wisconsin	616	220,983	0.0027875	2.7875	
26.	Colorado	613	132,143	0.0046389	4.6389	
27.	Arkansas	550	67,376	0.0081631	8.1631	
28.	Massachusetts	480	206,497	0.0023244	2.3244	
29.	Minnesota	459	171,303	0.0026794	2.6794	

	Ranked by Number of Births						
		Number of 15-19	Number of 15-19		Birth Rate X		
<u>Rank</u>	<u>State</u>	Year Old Births	Year Olds	<u>Birth Rate</u>	<u>1,000</u> *		
30.	Oregon	424	117,013	0.0036235	3.6235		
31.	Kansas	399	135,127	0.0029527	2.9527		
32.	New Mexico	363	64,692	0.0056112	5.6112		
33.	Utah	349	97,542	0.0035779	3.5779		
34.	lowa	331	84,407	0.0039214	3.9214		
35.	Nevada	311	53,090	0.0058579	5.8579		
36.	Connecticut	270	94,552	0.0028555	2.8555		
37.	West Virginia	241	58,067	0.0041503	4.1503		
38.	Nebraska	203	84,597	0.0023996	2.3996		
39.	Idaho	192	58,792	0.0032657	3.2657		
40.	Hawaii	156	45,694	0.0034140	3.414		
41.	Delaware	108	21,287	0.0050735	5.0735		
42.	Maine	108	48,752	0.0022152	2.2152		
43.	Rhode Island	101	25,125	0.0040199	4.0199		
44.	Alaska	99	24,881	0.0039789	3.9789		
45.	South Dakota	98	41,148	0.0023816	2.3816		
46.	Montana	92	40,941	0.0022471	2.2471		
47.	New Hampshire	88	39,665	0.0022185	2.2185		
48.	Wyoming	80	16,673	0.0047981	4.7981		
49.	North Dakota	56	27,311	0.0020504	2.0504		
50.	Vermont	40	23,731	0.0016855	1.6855		

Where should a teenage pregnancy prevention program be located?

Count

Rate

Both

Neither

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Was a teenage pregnancy prevention program successful?

Count Rate Both Neither

Is watching R-rated movies associated with teenage births?

Count Rate Both Neither

Which ethnic group has the most teenage births?

Count Rate Both Neither

National newspaper journalist for the leading newspaper in Missouri

State senator seeking reelection in your state

A member of a team writing a grant to get funding to implement a teenage pregnancy prevention program in your state

A federal epidemiologist from the Centers for Disease Control and Prevention (CDC)



Summary

- 1. Accurately counting health-related events requires a precise case definition.
- 2. Even with a precise case definition, criteria must be consistently applied when the accuracy of information is in question.
- 3. Although sources of error may not be able to be eliminated, they must be considered.
- 4. The "seriousness" of a health-related event is sometimes determined by comparing its frequency in one place with its frequency in another.
- 5. Even with complete and accurate data, the degree of "seriousness" of a health-related event is a value judgment that often "transcends science."
- 6. Teenage pregnancies and teenage births are not synonymous.