

Appendix 1: Derivation of the Estimated Cost of One Unplanned Pregnancy in the United States

To calculate the direct medical cost of an unplanned pregnancy, we reviewed the literature to describe pregnancy outcomes among teens <20 years of age in the United States. Approximately 49% of such pregnancies result in live births, 33% in therapeutic abortions, and 18% in miscarriages **(1,2)**. To calculate the cost of a live birth, we added the maternal and neonatal costs. Approximately 90% of infants of teen mothers are delivered vaginally at a mean cost of \$2,500 per delivery and 10% are delivered surgically at a mean cost of \$4,400 per delivery **(3,4)**. Thus, the mean maternal cost per delivery is \$2,700. Neonatal costs for a live birth increase dramatically with prematurity. Neonatal costs are \$2,000 for a term delivery, \$6,000 for a delivery at 35 weeks, and \$68,000 for a delivery at 31 weeks **(5,6)**. Approximately 9% of babies born to teen mothers are delivered at a gestational age of less than 37 weeks **(7,8)**. The neonatal costs of a live birth are thus conservatively estimated to be \$2,400 and the total costs of a live birth are \$5,100. Therapeutic abortion is estimated to cost \$500 in the first trimester and \$1,300 in the second trimester **(9)**. Eighty-nine percent of therapeutic abortions are performed during the first trimester and 11% are performed in the second trimester so the average cost of a therapeutic abortion is approximately \$600 **(9)**.

Approximately 63% of miscarriages occur with retained products of conception and the cost of a miscarriage with retained products of conception is at least \$800 **(10, 11)**. The resultant cost of a miscarriage is thus \$500. The weighted average cost of one unintended pregnancy in a teen mother in the United States is thus approximately \$2,800.

We have estimated that one unplanned pregnancy for a teen in the United States would cost approximately \$2,800. Thus, if 0.6 pregnancies were prevented in one year, the entire program costs would be offset. If more than 0.6 pregnancies were prevented in one year, the program would be cost-saving.

Appendix 1 - Table 1: *Ready-Girls* : Evidence-Based Information and Public Health Documents from Scientific Literature for the Economic Analysis

Evidence-Based Literature Citations	Facts From the Literature: Cost: Resource Utilization and Outcomes of an Unplanned Pregnancy
Weil TP (2002) ¹	Nurse Educator Salary (Actual): \$56,000 Pediatric Endocrinologist Salary (AAMC): \$125,000 Fringe Benefits: 25% Overhead, 1999: 60% Nurse's hourly salary + fringe + overhead = \$54 Physician's hourly salary + fringe + overhead = \$120
U.S. Census Bureau (2006) ²	Number of girls 15-20 years, United States, 2005 n=10,446,000 Number of pregnancies among girls <20 years, United States, 2001 n=853,000 % of girls have pregnancies each year = 8.2% Unplanned pregnancies among girls <20 years of age: n=702,000 (82%) % of girls having unplanned pregnancies each year=6.7%
National Campaign to Prevent Teen and Unplanned Pregnancy (2006) ³	Outcomes of unplanned pregnancies among girls, 20 years, Unites States, 2001 Live births = 346,000 (49%) Abortion = 230,000 (33%) Miscarriage = 126,000 (18%)
Declercq E (2007) ⁴	Mean maternal costs by delivery type: Planned vaginal birth, 1998-2003=\$2,513 Planned cesarean-delivery,1998-2000= \$4,373
Meikle SF (2005) ⁵	% Elective cesarean delivery for mothers <20 years of age, 2001: 10%
Phibbs CS (2006) ⁶	Mean maternal cost per delivery: \$2,700 Mean neonatal costs by gestational age, 1998-2000 25 weeks=\$234,000 33 weeks=\$30,000 27 weeks=\$178,000 35 weeks=\$6,000 29 weeks=\$116,000 37 weeks=\$2,000
Fraser AM (1995) ⁷	Percentage of births to mothers <20 years of age at gestational age <37 weeks: 8.7%
Jones RK (2008) ⁸	Mean cost (maternal and neonatal) of delivery: \$4,700 Mean cost of therapeutic abortion, 2005 First trimester (10 weeks)=\$523 x .89 Second trimester (20 weeks)=\$1,339 x .11
Guttmacher Institute (2009) ⁹	Percentage of therapeutic abortions performed during the first trimester, 2004: 89%

Rocconi (2005) ¹⁰	Mean cost of a therapeutic abortion: \$600 Mean cost of miscarriage with retained products of conception Manual vacuum aspiration = \$800 Expectant management = \$900 Medical management = \$1,100 Surgical dilatation and curettage = \$2,300
Luise C (2002) ¹¹	Percentage of miscarriages with retained products of conception: 63% Mean cost of a miscarriage: \$500 Total mean direct medical cost of an unplanned pregnancy: \$2,600

References for Appendix:

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