THE ECONOMIC IMPACT OF GESTATIONAL WEIGHT GAIN ACCORDING TO IOM GUIDELINES

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OBJECTIVE: We sought to estimate the costs and outcomes associated with keeping gestational weight gain within the 2009 Institute of Medicine (IOM) recommendations. STUDY DESIGN: A decision analytic model was built using TreeAge software that compared the cost of gestational weight gain categorized by staying within versus exceeding the IOM guidelines in normal weight and obese women. We assumed the obesity prevalence from the most recent data in 2008 and applied to the estimated 4,000,000 million births per year. Outcomes included: gestational diabetes, preeclampsia, macrosomia (>4500g), small-forgestational age, postterm delivery, cesarean delivery, postpartum weight retention, and child obesity.

RESULTS: Normal weight women who gained within the IOM recommendations incurred \$2,502 less costs than normal weight women who exceeded the IOM recommendations. Obese women who gained within the IOM recommendations incurred \$6,501 less costs than obese women who exceeded the IOM recommendations. With lower costs and better outcomes adhering to IOM guidelines for gestational weight gain is a dominant strategy. When applied to the U.S. population, gaining within IOM guidelines could lead to \$12.7 billion dollars of savings. In addition, staying within the IOM guidelines would result in 76,400 fewer cesarean deliveries for normal weight women and 408,000 for obese women (see table).

CONCLUSION: From a societal standpoint, there is economic benefit to staying within the

IOM guidelines for gestational weight gain. With such an enormous potential impact on economic and clinical outcomes, further research into accomplishing these guidelines should be widespread.

	Normal Weight Women			Obest Warner		
	Exceeding 1091	Within 10M	Difference in Outcomes	Exceeding 3000	Watia 10M	Difference is Outcomes
Gesarean Delivery	325,890	241,400	76,490	761,600	383,500	483,000
Gestational Diabetes	76,000	75,000		253,600	190,000	163,700
Preeclampsia	75,490	4590)	30,590	126,400	194,900	217/00
Posttern Delivery	91,630	74,400	15,283	95,200	45,200	0
Macrosomia (>4500g)	91.580	30,50	61.120	259,400	F0.600	376,800
Small-for-gostational ago	91580	117,520	-45,840	136,000	134,900	D
Postpartum Weight Retention	137.520	45,940	91.680	122,400	45.300	81,500