Infant Mortality Around the World

U.S. Infant Death Rate in 2014: 5.8

• Higher than countries such as Canada (4.8), UK (3.9) and Japan (2.1)

Causes for Infant Mortality:

- SID
- Birth defects
- birthweight

Conversion

500 grams ~ 1 lb

<u>Graphs</u>

<u>Race</u>

Death_Rate t Grouping for M eans of Race (Alpha = 0.1) Means covered by the same bar are not significantly different.					
Race	Estimate				
Black or African American	10.8900				
American Indian or Alaska Native	9.5600				
White	5.3700				
Asian or Pacific Islander	4.1400				

This graph shows that there is a significant difference between the death rates for the different races.

Race	Delivery Method	Death Rate Mean	Difference Between C- section and Vaginal Death Rate	Percent Difference from Mean Death Rate
American Indian or Alaska Native	Cesarean	11.76	4.4	46.67%
American Indian or Alaska Native	Vaginal	7.36		34.95%
Asian or Pacific Islander	Cesarean	4.66	1.04	44.27%
Asian or Pacific Islander	Vaginal	3.62		35.26%
Black or African American	Cesarean	11.34	0.9	43.21%
Black or African American	Vaginal	10.44		67.52%
White	Cesarean	6.54	2.34	11.11%
White	Vaginal	4.2		20.70%

Weight

Classification	Weight in Grams
Very Low Birthweight	Below 1500 g
Low Birthweight	1500g-2500g
Average Birthweight	Above 2500g

Death_Rate Tukey Grouping for M eans of M ethod_and_Weight (Alpha = 0.1)

Means covered by the same bar are not significantly different.

Method_and_Weight	Estimate	
Vaginal 499	932.83	
Cesarean 499	583.94	
Vaginal 599	410.78	
Cesarean 500	194.15	
Vaginal 1000	52.7300	
Cesarean 1000	48.8675	
Vaginal 1500	29.3525	
Cesarean 1500	21.5067	
Cesarean 2000	11.4275	
Vaginal 2000	7.7067	
Cesarean 2500	5.4850	
Vaginal 2500	3.8450	
Cesarean 3000	3.2675	
Cesarean 4500	3.0400	
Cesarean 3500	2.6175	
Vaginal 3000	2.3050	
Cesarean 4000	2.2200	
Vaginal 4000	1.7250	
Vaginal 3500	1.6125	
Vaginal 4500	0.6600	

There is no difference between the delivery methods and death rate for babies who weigh more than 1500 grams. There is a significant difference in the delivery method and death rate for babies who weigh less than 1000 grams.

It is better to deliver through the c-section baby if it weighs less 2000 grams. It is better to deliver babies through the vaginal method if they weigh more than that.