



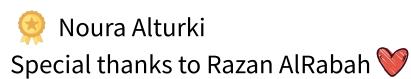




Tutorial 2: Global demography

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- **Doctor notes**
- **Important**

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Question

Country: Kingdom of Demographia (Fictional)

Total population: 1200000

Females: 499000

Male:701000 ➤ Deaths

Total: 83000

infants(less than one year): 13000

Females, childbirth:3000

Live births: 82000

Population between 0-14 years: 230000 Population between 14-65 years: 789000

Population above 65: 181000

from the information above calculate the following:



1

Infant mortality rate

Number of death infant in 1 year

Number of live infant born in year

X 1000 =

13000

0 • X 1000 = 158

There were 158 deaths of infant under age 1 per 1000 live births

2 Maternal mortality rate

Number of maternal death

 $X 100000 = {}^{3000}_{82000} \times 100000 = 3658$

Number of live infant born in year

There were an estimated 3658 maternal deaths per 100,000 live births

3 Sex Ratio

1. In practice, a maternal death is most often defined as the death of a woman while pregnant or within 42 days of termination of pregnancy from any cause related to or aggravated by the pregnancy or its management, but not from accidental or incidental causes.

Cont'

4 Dependency Ratio

5 Crude birth rate

Number of live birth
$$X 1000 = \frac{82000}{1200000} \times 1000 = 68.3$$
Mid year population

6 Crude death rate

Number of death
$$\times$$
 1000 = $\frac{83000}{1200000}$ \times 1000 = 69.1

7 Natural increase ratio

$$CBR-CDR = 68.3-69.1 = -0.8$$

Positive > increase in population

Negative > decline in population



What strategies have been successful in reducing birth rates:

- 1-family planning & contraceptive
- 2-Educate and empower women



Today 4% of the population is above 65 years in Saudi Arabia, This population portion will increase to 12% in 2040, List three challenges and three solutions to deal with increase of the aging population in Saudi Arabia?

Challenges:

- 1- Co-morbidities
- 2- expensive healthy lifestyle

Solutions:

- 1- Primary prevention (awareness)
- 2-The system need to be proactive