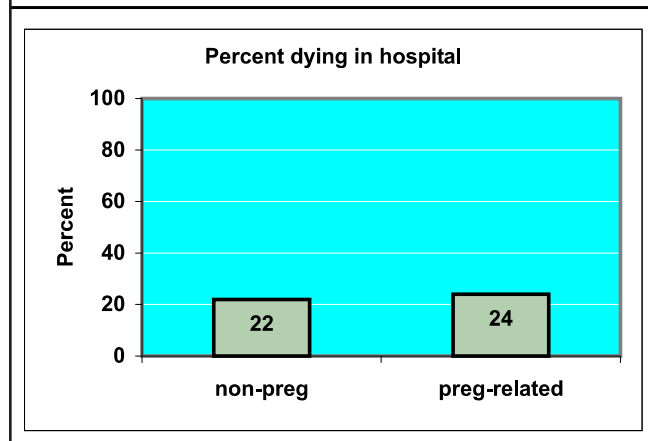
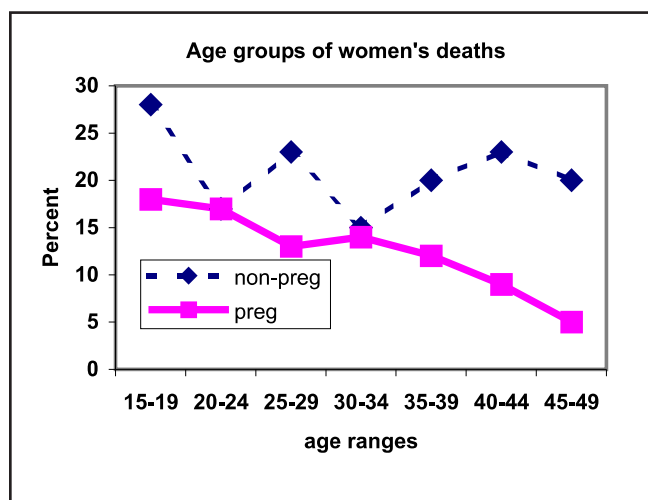


Annex H: Maternal Mortality Estimation

Comparisons are done between the 76 Nine of these deaths were in women over the age of 49. women who died during pregnancy-related deaths and those who died in conditions unrelated to pregnancy (234 total).

distributions are quite distinct. For non-pregnancy-related, the percent of total deaths tends to reduce after 30-34 years of age; for those pregnancy related, the percent tends to remain constant throughout. Interpretation of this is unclear. Note these are not age-specific rates.

The same percent of women with pregnancy-related deaths died in hospital as compared with non pregnancy-related (24% vs 22%). In each case, this low percent reflects delayed care and is unacceptable. This is particularly important for pregnancy-related deaths, which are preventable.



⁴ Nine of these deaths were in women over the age of 49.

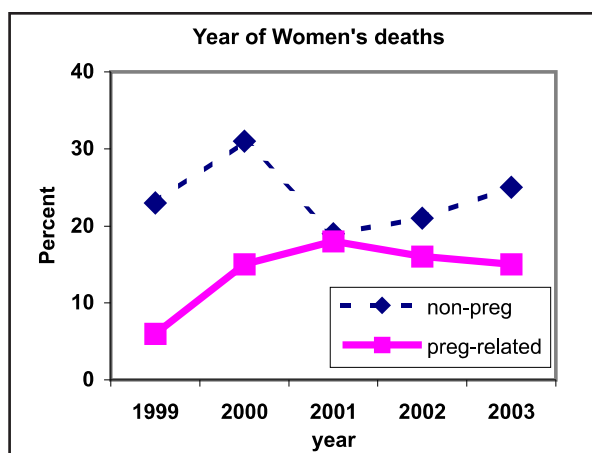
An important issue is one of recall; is there a difference in the numbers reported by year? It appears that there are less numbers reported in 1999 for pregnancy-related deaths than other years. This may result in an under-estimate of maternal mortality by about 15% if the full 5-year period is used in analysis.

Crude estimates of Maternal Mortality

The numerator is the number of women aged 15-49 who died of pregnancy-related deaths in any given year.

The denominator for Maternal Mortality ratio is the total number of births for the population over the same period; the ratio being the number of women's deaths per 100,000 births.

The total births is the number of children aged up to 5 years for all women 15-49 years plus half the deaths over this period = 12238 + 918 (U5MR=150) = 13156. .



Crude estimates of Maternal Mortality (women aged 15-49)

	Unweighted				Weighted			
	births	Preg-nancies	deaths	ratio per 100,000 births	births	preg-nancies	deaths	ratio per 100,000 births
Past 5 years	12238	13156	88	669	789765	848997	6018	709
Past 4 years	9789	10523	82	779	635363	683015	5432	795

Pregnancies = births *1.075

The first row (1) is based on all women aged 15-49 (n=88) reporting a maternal death. The unweighted ratio for this group is 669 and the weighted 709 maternal deaths for 100,000 births. The second row is based on the past 4 years, due to a likely improved recall. The unweighted ratio for this group is 779 and the weighted 795 maternal deaths for 100,000 births. One disadvantage of using weights is the relatively small number of deaths, resulting in a possible instability for very high or low weights.

The tentative ratios and rates can be rounded to the nearest 50, and based on other studies with a similar sample size, a confidence interval is estimated at about 200.