

HEALTH, MORBIDITY, AND MORTALITY WORKING GROUP: EAPS

Monthly contributions to sex, residence, and regional mortality differentials in India

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Introduction

Objective ____ Methods

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Seasonal variation in mortality has been investigated in many countries but not until recently in India. There are some base for reckoning that in India seasonal mortality pattern may be different than other developed nations. The debate continues as to what role was played by other factors such as regional and locational factors and the significance of seasonal mortality variations in the annual mortality levels in India. In what way do these factors intercorrelate and form a causal relationship? This study attempts to throw light on this question by analyzing monthly mortality in India.

Figure 1: Scatter plot of Gini coefficients (G_o) and life

Examining the regional variation in e₀, G₀ and e[†].
 Assessing the age specific contributions to rural-urban differentials in e₀ by sex, region, age-groups and months.
 Assessing the age specific contributions to male-

Assessing the age specific contributions to male-female differentials in e_0 by residence, regions, age-groups and months.

 \clubsuit Assessing the age/month specific contributions to sex/rural-urban differentials in e_0 by sex, region, residence, age-groups and months.

Figure 2: Correlation between lifespan disparity (e[†]) and Gini

ASDR was computed by sex, residence, for India as a whole and six regions namely, north, south, east, west, central, and northeast adopted in NFHS reports

The ASDRs of India and these regions are further split by months

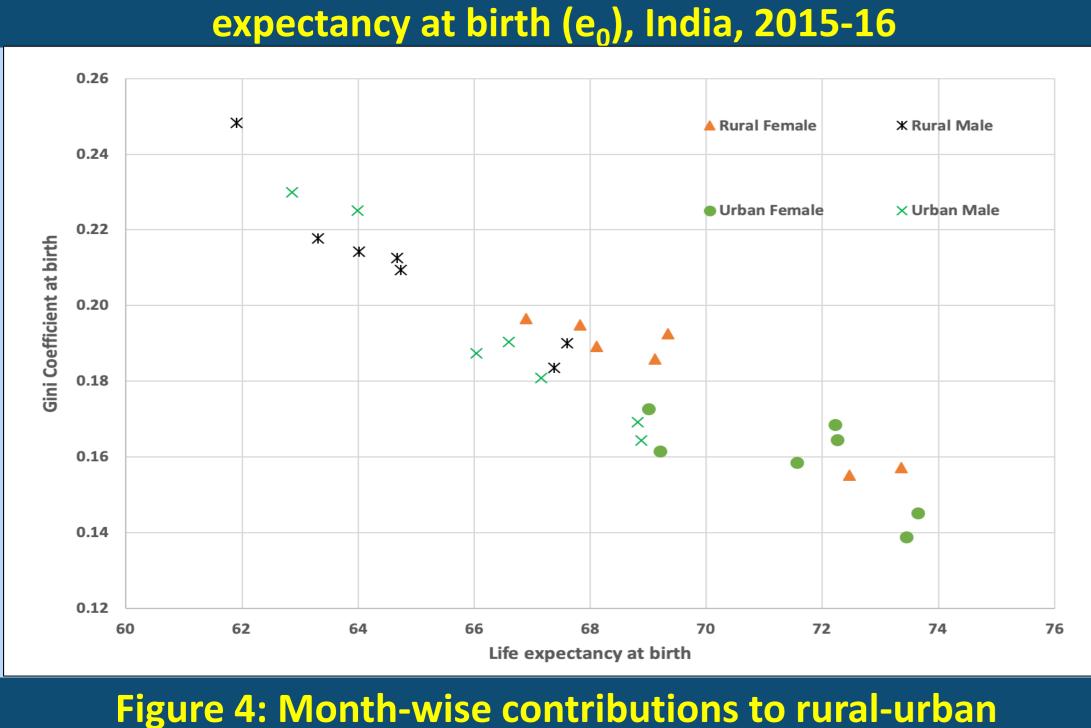
we constructed life tables for India as whole and six regions using Chiang (1972) methodology

The measures life expectancy at birth (e_0) , lifespan disparity (e_0^{\dagger}) , a measure of the average number of life years lost at birth and Gini coefficient at birth (G_0) are

calculated

Figure 3: Age-specific contributions to rural-urban differential

in e_0 , regions of India, by sex



Coefficient (G₀), India, 2015-16

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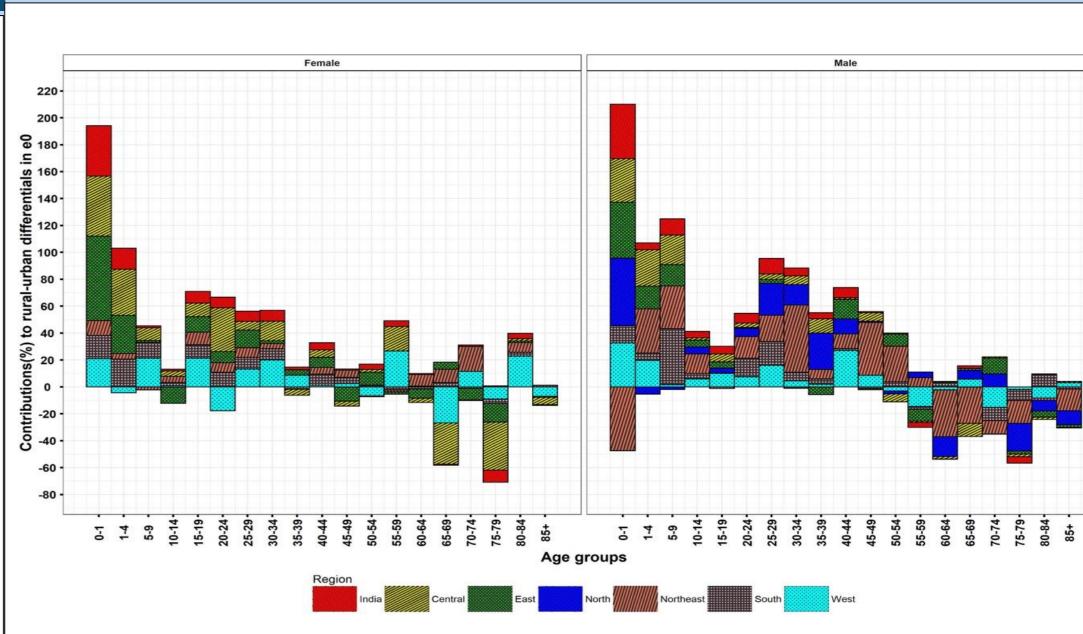
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**Ward Female **Rural Male **

**Ward Female **Urban Male **

**Ward Female **

**Ward Female

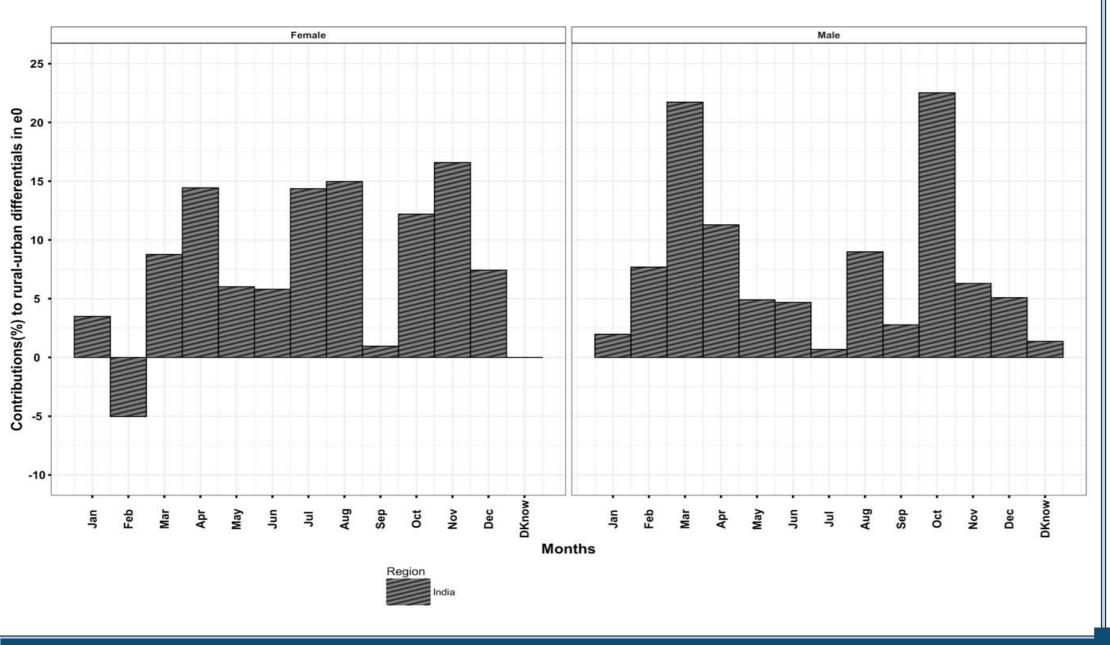


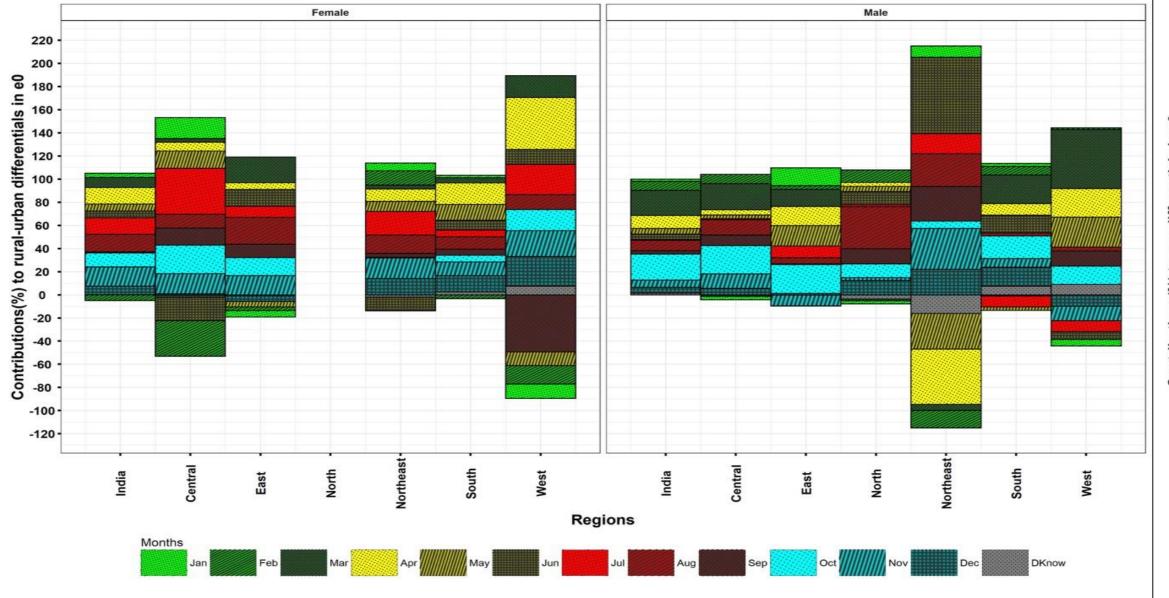
differential in e₀, India, by sex

Figure 5: Month-wise contributions to rural-urban differential in e_0 , regions of India, by sex

Gini Coefficient at birth

Figure 6: Age-specific contributions to sex differential in e0, regions of India, by residence





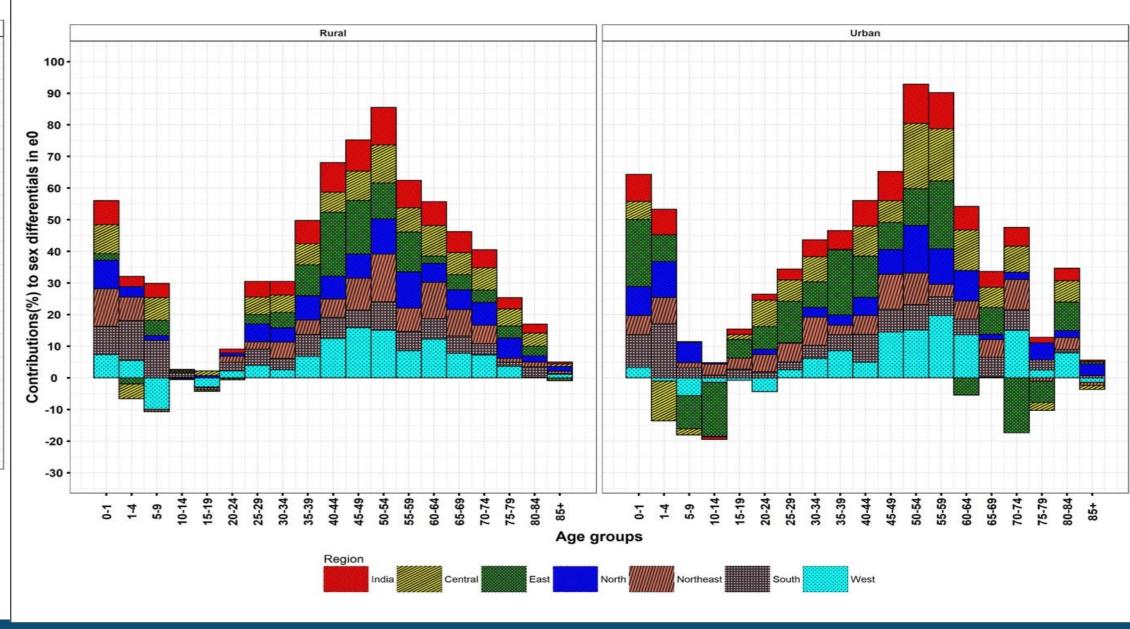
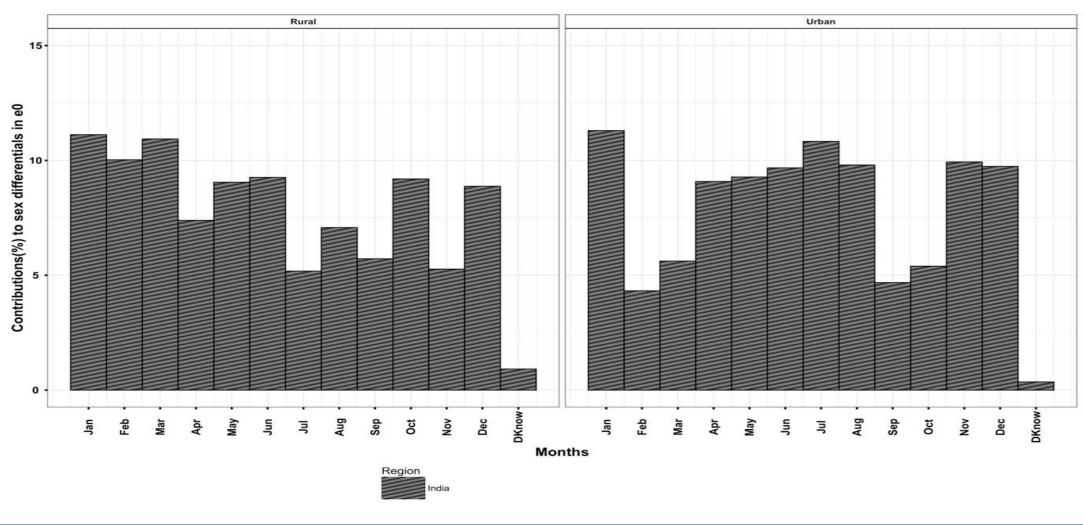
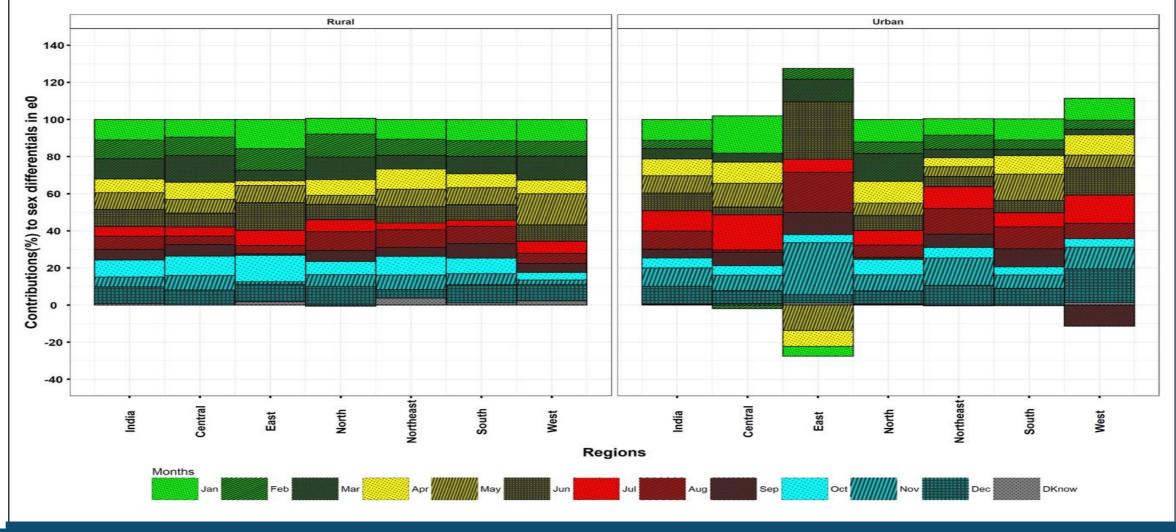


Figure 7: Month-wise contributions to sex-differential to e₀, India, by residence

Figure 8: Month-wise contributions to sex differential in e₀, regions of India, by residence

Figure 9: Age-month-specific contributions to rural-urban differential in e₀, India





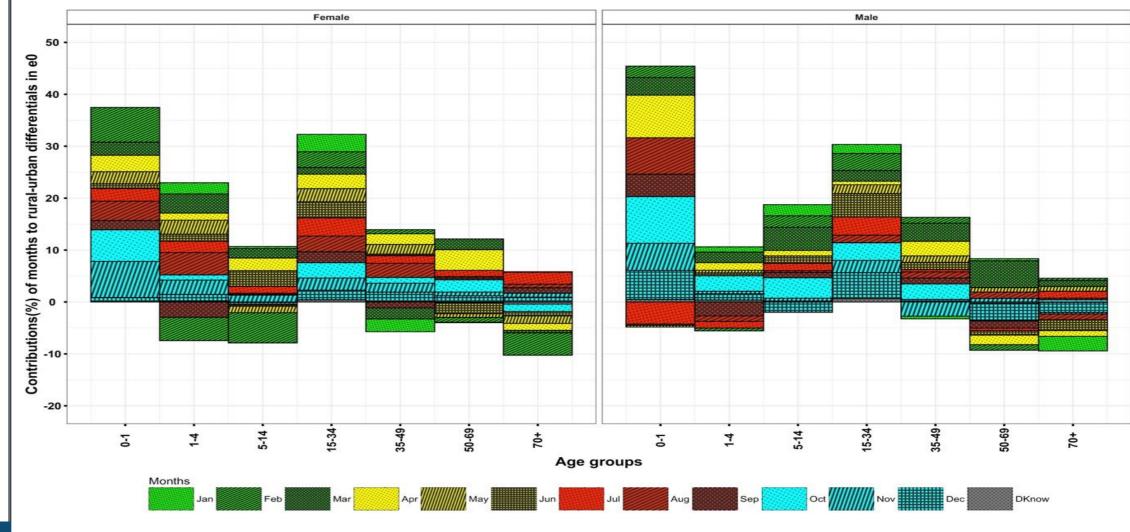


Figure 10: Age-month-specific contributions to rural-urban differential in e₀, regions of India

Figure 11: Age-month-specific contributions to sex-differential in e_0 , India

Figure 12: Age-month-specific contributions to sex differential in e_0 , regions of India

