HUMAN DEVELOPMENT INDEX TRANSITIONS

Understanding the transition from infection-related cancers to lifestylerelated cancers in many low- and middleincome countries is vital for planning tailored cancer control programs to reduce the future deaths and suffering from the disease

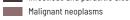
Over the last century, reductions in mortality from infectious disease, childhood and maternal conditions, and changes in fertility have led to rapid population growth and aging, and consequently an increasing burden of noncommunicable diseases, including cancer. The unsurpassed scale of the cancer problem worldwide continues to evolve as countries undergo major transitions, as measured by human development index (HDI). MAP & FIGURE 14.1

Cancer is a major cause of premature death (at ages <70) linked to socioeconomic transitions. **MAP 14.2** It is the leading cause of premature death in 48 (predominantly very high-HDI) countries, where cancer has surpassed the first position from cardiovascular disease. In Japan, cancer now represents 45% of all premature deaths, compared with 21% due to cardiovascular disease. FIGURE 14.2 In a further 43 countries, cancer is the secondleading cause of premature death following cardiovascular disease, while both diseases rank lower in most low- and medium-HDI countries.

FIGURE 14.2

(ages <70 years) in South Africa and Japan

Leading causes of premature mortality (%)







cancer in the coming decades. FIGURE 14.4

In South Africa, for example, infectious and

each account for only 10%.

"regions." FIGURE 14.3

parasitic diseases account for 45% of premature

deaths, while cancer and cardiovascular disease

The profiles of cancer substantially vary by

environment, and the availability of detection and

diagnostic services that are associated with social

and economic development. Among the top 5 most

commonly diagnosed cancers and 5 leading causes

of cancer death by HDI, and separately for India

The rising cancer burden will hit the lower

HDI countries the hardest. Low- and medium-HDI

countries, many of which are ill-equipped to deal

with the present situation, are projected to have

the greatest percentage increase in the burden of

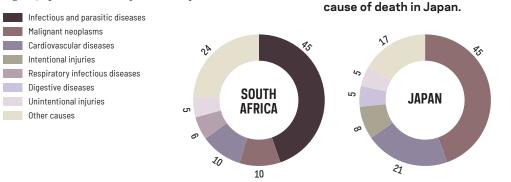
in South Africa, cancer is the most common

and China, there are 16 different cancer types that

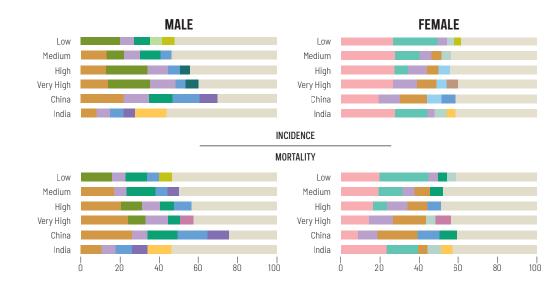
rank within the top five even within these six broad

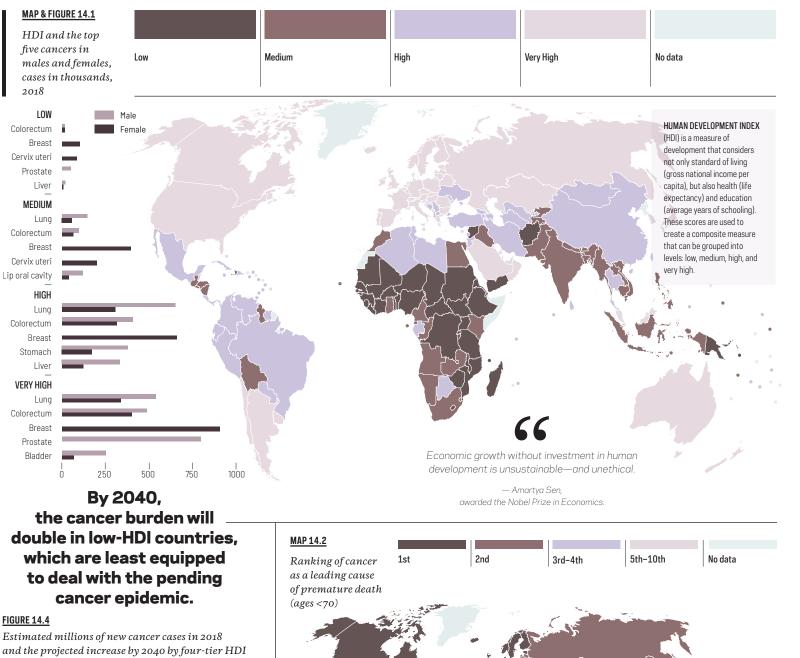
HDI, reflecting differences in lifestyle factors,

entrenchment of tobacco marketing, the built



Numbers may not sum to 100 due to rounding

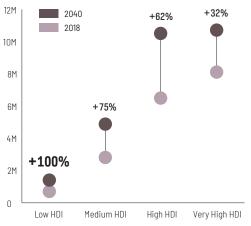




double in low-HDI countries, which are least equipped to deal with the pending

FIGURE 14.4

Estimated millions of new cancer cases in 2018 and the projected increase by 2040 by four-tier HDI level, assuming only a demographic effect



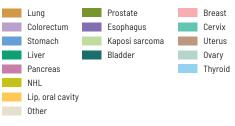
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CANCERATLAS.CANCER.ORG

FIGURE 14.3

*India and China are not included in HDI categorie

Most commonly diagnosed cancers and leading causes of cancer death (%) by four-tier HDI plus India and China*



Cancer is a leading cause of death in North and South America, Europe, Australia, North Africa, and parts of Asia.