International Comparisons of Cumulative Risk of Uterine Cancer, from Cancer Incidence in Five Continents Vol. VIII

Cumulative risk of cancer incidence of uterine cervix (ICD-10: C53) and uterine body (ICD-10: C54) to age 69 was calculated with data from Cancer Incidence in Five Continents Vol. VIII (1). Cumulative risk is defined as the probability that an individual will develop the disease in question during a certain age span, in the absence of other competing causes of death. The comparisons of the cumulative incidence risk of cancer of uterine cervix among 22 registries (and ethnic groups) are shown in Fig. 1. Koreans in Seoul showed the highest risk among all the registries. Korean immigrants in Los Angeles showed the highest risk in the USA registries. Denmark showed a relatively higher risk than other European registries. Japanese and Korean immigrants in USA showed lower risk than their counterparts in homelands. In USA, black showed higher risk than white.

The comparisons of the cumulative incidence risk of cancer of uterine body are shown in Fig. 2. There is a general tendency that people living in East Asia show lower risk than black and white people in USA and Europeans. Japanese and Chinese immigrants in Hawaii showed higher risk than their counterparts in homelands. In USA, white showed higher risk than black, and Japanese immigrants showed as high risk as white.

Comparisons between Figs 1 and 2 reveal that people living in East Asia tend to show higher risk of cancer of uterine cervix than of uterine body, whereas people in USA and Europe tend to show the opposite pattern.

Figure 1. Comparisons of cumulative incidence risk of cancer of uterine cervix among 22 selected cancer registries.
Cumulative incidence risk of cancer to age 69 years old: 1993-97

**Uterine body (ICD-10:C54)**

**Females**

- Japan: Miyagi
- Japan: Nagasaki
- Japan: Osaka
- Korea: Seoul
- China Shanghai
- Singapore Chinese
- USA: LA Japanese
- USA: LA Korean
- USA: LA Chinese
- USA: Hawaii Japanese
- USA: Hawaii Chinese
- USA: SEER white
- USA: SEER black
- UK: England: South Thames
- UK: England: West Midlands
- France: Bas-Rhin
- France: Isere
- Italy: Florence
- Italy: Venetian*
- Denmark
- The Netherlands
- Sweden

* 1993-96

**Figure 2.** Comparisons of cumulative incidence risk of cancer of uterine body among 22 selected cancer registries. *Note:* Data were downloaded from IARC CANCERMondial Statistical Information System (http://www-dep.iarc.fr/). Data of number of incidence and population for Vol. VIII were extracted from CI5I-VIII_September_2005.ZIP and tabulated by the authors of this article. The data of Korea–Seoul, Italy–Venetian, and The Netherlands were 'original' version, and the data of the other registries were 'updated' version. Responsibility for this presentation and interpretation lies with the authors of this article. LA: Los Angeles; SEER: Surveillance Epidemiology and End Results.

**References**


Kota Katanoda and Dongmei Qiu
Statistics and Cancer Control Division,
Research Center for Cancer Prevention and Screening,
National Cancer Center
doi:10.1093/jjco/hyl070