Supplemental file 2. Calculation of standardized incidence ratio (SIR) of second primary cancers in APL patients.

The SIR of second cancer for APL patients was calculated by dividing the observed number of second cancers by the expected number of APL patients in the Hong Kong population without other primary cancers.

Expected number of APL patients was obtained as follows:

Expected number of APL patients:

 \sum (crude rate_{ij} × standard population_{ij}) =

 $= \sum \left(\frac{\textit{Observed number of APL patients}_{ij}}{\textit{Population}_{ij}} \times \textit{standard population}_{ij} \right)$

where

crude $rate_{ij}$ = The crude rate of APL patients in the entire Hong Kong population by age and sex, which was obtained by dividing

Observed number of APL patients_{ij} (Observed number of APL patients in Hong Kong by age and sex) by

*Population*_{*ii*} (Hong Kong mid-year population by age and sex)

standard population_{ij} was the standardized population following the WHO (2000-2025) standard population data by age and sex