

## Indicator 3.9.2

### Indicator Name, Target and Goal

**Indicator 3.9.2** Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services)

**Target 3.9** By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination

**Goal 3** Ensure healthy lives and promote well-being for all at all ages

### Definition and Rationale

#### ○ Definition

The number of deaths defined as deaths “attributed to unsafe water, unsafe sanitation and lack of hygiene knowledge (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services)” per year divided by the Japanese population of the nation, represented per 100,000 population.

#### ○ Concepts

“Deaths attributed to unsafe water, unsafe sanitation and lack of hygiene knowledge” were treated as those who died from diarrhea due to WASH (ICD-10 codes A00, A01, A03, A04, A06-A09), intestinal nematode infections (ICD-10 codes B76-B77, B79) and protein-energy malnutrition (ICD-10 codes E40-E46).

#### ○ Rationale and Interpretation:

Vital Statistics makes death forms based on reports of deaths submitted to each local municipality and identifies the primary cause of death based on the cause of death and circumstances described. Of the primary causes of death, those identified as “deaths attributed to unsafe water, unsafe sanitation and lack of hygiene knowledge” is deemed as the number of deaths “attributed to unsafe water, unsafe sanitation and lack of hygiene knowledge” per year.

### Data Sources and Collection Method

Vital Statistics

## **Method of Computation and Other Methodological Considerations**

### ○ Computation Method

Rate of deaths attributed to unsafe water, unsafe sanitation and lack of hygiene knowledge (The total of ICD-10 codes A00, A01, A03, A04, A06-A09, B76-B77, B79, E40-E46) =

Number of deaths in a year attributed to unsafe water, unsafe sanitation and lack of hygiene knowledge (The total of ICD-10 codes A00, A01, A03, A04, A06-A09, B76-B77, B79, E40-E46) / Japanese population of that year x 100,000

### ○ Comments and Limitations

Vital Statistics does not have statistics on an item labeled “deaths attributed to unsafe water, unsafe sanitation and lack of hygiene knowledge” and instead only calculates the number of deaths by ICD-10 codes.

SDGs defines the sum of all applicable ICD-10 codes as “deaths attributed to unsafe water, unsafe sanitation and lack of hygiene knowledge”.

## **Data Disaggregation**

Although calculations per age group (five years age groups) are possible, since it becomes enormous data files, the total data is posted.

## **References**

Vital Statistics

## **Custodian Ministries of Data**

Ministry of Health, Labour and Welfare

## **Custodian Ministries of Related Policies**

Ministry of Health, Labour and Welfare

## **International Organizations**

World Health Organization (WHO)