

Life Span Study Circulatory Disease Mortality Data, 1950-2003

This documentation describes the data for the 1950 through 2003 follow-up that was used in the analyses of circulatory mortality in the Life Span Study of atomic bomb survivors. Results of these analyses are described in the paper (Shimizu Y, Kodama K, Nishi N, Kasagi F, Suyama A, Soda M, Grant EJ, Sugiyama H, Sakata R, Moriwaki H, Hayashi M, Konda M, Shore RE. Radiation exposure and circulatory disease risk: Hiroshima and Nagasaki atomic bomb survivor data, 1950-2003. *Br Med J.* 2010, 340:193 (Full article online: doi10.1136/bmj.b5349))

The files included with this data release are:

lsscvd10.dat	Circulatory disease mortality data file, Comma delimited text file with a single header line that contains the variable names
lsscvd10.scr	Epicure (AMFIT) command script to read the data file and fit the basic model used in the paper
lsscvd10.log	Logfile produced by lsscvd10.scr

The data set is a detailed tabulation of person years, case counts, and summary data constructed from data on individual survivors. The cohort for analysis includes 86,611 survivors. Data on individual survivors are stratified by city, sex, age at exposure, attained age, calendar time and dose.

The first six variables tabulated below index the cross-classification used to define the table. The next five variables include a count of subjects entering the study, cell-specific numbers of person years, and cell-specific mean values for age at exposure, attained age, and radiation dose. The next eight variables give disease death counts.

If these data are used as the basis for analyses in any publication including working papers or technical reports, a statement of acknowledgment must be included in the manuscript. This statement should read:

This report makes use of data obtained from the Radiation Effects Research Foundation (RERF), Hiroshima and Nagasaki, Japan. RERF is a private, non-profit foundation

funded by the Japanese Ministry of Health, Labour and Welfare (MHNW) and the U.S. Department of Energy the latter through the National Academy of Sciences. The conclusions in this report are those of the authors and do not necessarily reflect the scientific judgment of RERF or its funding agencies.

Please send a copy of any reprints which make use of these data to:

Archives Unit, Library and Archives Section
 Information Technology Department
 Radiation Effects Research Foundation
 5-2 Hijiyama Koen
 Minami-ku
 Hiroshima, 732-0815
 JAPAN

These data are available from the RERF home page (<http://www.rerf.or.jp>)

Detailed documentation follows:

Name	Description and codes
c	City 1: Hiroshima 2: Nagasaki
s	Sex 1:Male 2:Female
agexcat	Age at exposure categories 1: 0- 5 years old 9: 40-45 2: 5-10 10: 45-50 3: 10-15 11: 50-55 4: 15-20 12: 55-60 5: 20-25 13: 60-65 6: 25-30 14: 65-70 7: 30-35 15: 70+ 8: 35-40

agecat	Attained age categories 1: 0- 5 years old 2: 5-10 3: 10-15 4: 15-20 5: 20-25 6: 25-30 7: 30-35 8: 35-40 9: 40-45 10: 45-50 11: 50-55 12: 55-60 13: 60-65 14: 65-70 15: 70-75 16: 75-80 17: 80-85 18: 85-90 19: 90-95 20: 95-100 21: 100+
ctime	Calendar time categories 1: 1950/10/1 – 1955/12/31 2: 1956/1/1 – 1960/12/31 3: 1961/1/1 – 1965/12/31 4: 1966/1/1 – 1970/12/31 5: 1971/1/1 – 1975/12/31 6: 1976/1/1 – 1980/12/31 7: 1981/1/1 – 1985/12/31 8: 1986/1/1 – 1990/12/31 9: 1991/1/1 – 1995/12/31 10: 1996/1/1 – 2000/12/31 11: 2001/1/1 – 2003/12/31
dosecat	DS02 weighted colon dose categories (i.e. gamma+10*neutron) 1: 0- 5 mGy 2: 5- 20 3: 20- 40 4: 40- 60 5: 60- 80 6: 80- 100 7: 100- 125 8: 125- 150 9: 150- 175 10: 175- 200 11: 200- 250 12: 250- 300 13: 300- 500 14: 500- 750 15: 750- 1000 16: 1000- 1250 17: 1250- 1500 18: 1500- 1750 19: 1750- 2000 20: 2000- 2500 21: 2500- 3000 22: 3000+
subjects	Number of subjects of first at risk
pyr	Person years at risk
agex	Person-year weighted mean age at exposure in years
age	Person-year weighted mean attained age in years
colon10	DS02 weighted colon dose (mGy)
	Death counts (underlying cause)
circulatory disease (CVD)	All circulatory diseases; ICD9 th 390-459
stroke	Stroke; ICD9 th 430-438
heartd	Heart diseases; ICD9 th 393-429 (excluding 401, 403, and 405)
othevd	Other circulatory diseases; ICD9 th (390-459) – (430-438) – (393-429 (excluding 401, 403, and 405))
	Death counts (underlying or contributing cause)

circulatory disease (conCVD)	All circulatory diseases; ICD9 th 390-459
constroke	Stroke; ICD9 th 430-438
conheartd	Heart diseases; ICD9 th 393-429 (excluding 401, 403, and 405)
conothcvd	Other circulatory diseases; ICD9 th (390-459) – (430-438) – (393-429 (excluding 401, 403, and 405))

In September 2014, an error was discovered in the variable “conothcvd”, count of other circulatory disease (underlying or contributing). These online data files (lsscvd10.dat, lsscvd10.log) were corrected on September 5th, 2014.