TOTAL CHOLESTEROL LEVELS vs MORTALITY DATA from 164 COUNTRIES
Sources: BHF-HEARTSTATS and WHO-MORTALITY (Adapted).

Correlation between mean total cholesterol (mg/dl) and all cause mortality, age-standardized per 100,000 (2005).

Key:
- **Countries, all cause mortality, age-standardized per 100,000**: All cause mortality, average/regression curve (r=-0.67)
- **I. Communicable, maternal, perinatal and nutritional conditions**: (r=-0.62)
- **I.A. Infectious and parasitic diseases**: (r=-0.57)
- **I.B. Respiratory infections**: (r=-0.55)
- **I.C. Maternal conditions**: (r=-0.49)
- **I.D. Perinatal conditions**: (r=-0.38)
- **I.E. Nutritional deficiencies**: (r=-0.41)
- **I.F. Other infectious and parasitic disease**: (r=-0.40)
- **I.G. Malnutrition**: (r=-0.36)
- **I.H. Other neoplasms**: (r=-0.28)
- **I.I. Diabetes mellitus**: (r=-0.27)
- **I.J. Endocrine diseases**: (r=-0.25)
- **I.K. Skin diseases**: (r=-0.23)
- **I.L. Digestive diseases**: (r=-0.22)
- **I.M. Congenital anomalies**: (r=-0.17)
- **II. Noncommunicable diseases**: (r=-0.47)
- **II.A. Malignant neoplasms**: (r=-0.45)
- **II.B. Other neoplasms**: (r=-0.40)
- **II.C. Respiratory diseases**: (r=-0.30)
- **II.D. Cardiac neoplasms**: (r=-0.27)
- **II.E. Cardiovascular diseases**: (r=-0.25)
- **II.F. Sense organ diseases**: (r=-0.23)
- **II.G. Cardiovascular diseases**: (r=-0.20)
- **II.H. Respiratory diseases**: (r=-0.18)
- **II.I. Digestive diseases**: (r=-0.17)
- **II.J. Gastrointestinal diseases**: (r=-0.16)
- **II.K. Skin diseases**: (r=-0.15)
- **II.L. Digestive diseases**: (r=-0.13)
- **III. Injuries**: (r=-0.12)
- **III.A. Unintentional injuries**: (r=-0.10)
- **III.B. Intentional injuries**: (r=-0.08)
- **All cause mortality, average/regression curve**: (r=-0.67)

Country abbreviations: AUS = Australia, BEL = Belgium, BGD = Bangladesh, BRA = Brazil, CAN = Canada, CHN = China, COL = Colombia, ESP = Spain, FIN = Finland, FRA = France, GER = Germany, GRC = Greece, HUN = Hungary, IRL = Ireland, JPN = Japan, MEX = Mexico, NLD = Netherlands, NOR = Norway, SWE = Sweden, UKR = Ukraine, USA = United States of America, WLD = World

Legend:
- Black: Total cholesterol (mg/dl)
- Red: Countries, all cause mortality, age-standardized per 100,000
- Blue: All cause mortality, average/regression curve (r=-0.67)
- Green: I. Communicable, maternal, perinatal and nutritional conditions (r=-0.62)
- Light Green: I.A. Infectious and parasitic diseases (r=-0.57)
- Light Green: I.B. Respiratory infections (r=-0.55)
- Light Green: I.C. Maternal conditions (r=-0.49)
- Light Green: I.D. Perinatal conditions (r=-0.38)
- Light Green: I.E. Nutritional deficiencies (r=-0.41)
- Light Green: I.F. Other infectious and parasitic disease (r=-0.40)
- Light Green: I.G. Malnutrition (r=-0.36)
- Light Green: I.H. Other neoplasms (r=-0.28)
- Light Green: I.I. Diabetes mellitus (r=-0.27)
- Light Green: I.J. Endocrine diseases (r=-0.25)
- Light Green: I.K. Skin diseases (r=-0.23)
- Light Green: I.L. Digestive diseases (r=-0.22)
- Light Green: I.M. Congenital anomalies (r=-0.17)
- Blue: II. Noncommunicable diseases (r=-0.47)
- Blue: II.A. Malignant neoplasms (r=-0.45)
- Blue: II.B. Other neoplasms (r=-0.40)
- Blue: II.C. Respiratory diseases (r=-0.30)
- Blue: II.D. Cardiac neoplasms (r=-0.27)
- Blue: II.E. Cardiovascular diseases (r=-0.25)
- Blue: II.F. Sense organ diseases (r=-0.23)
- Blue: II.G. Cardiovascular diseases (r=-0.20)
- Blue: II.H. Respiratory diseases (r=-0.18)
- Blue: II.I. Digestive diseases (r=-0.17)
- Blue: II.J. Gastrointestinal diseases (r=-0.16)
- Blue: II.K. Skin diseases (r=-0.15)
- Blue: II.L. Digestive diseases (r=-0.13)
- Blue: III. Injuries (r=-0.12)
- Blue: III.A. Unintentional injuries (r=-0.10)
- Blue: III.B. Intentional injuries (r=-0.08)

**Lower cholesterol** = More infectious and parasitic diseases and possibly higher cardiovascular mortality

**Cholesterol in range 200-240 mg/dl** = Lowest all cause mortality

**TC=200 mg/dl**

Lower all cause mortality for 200<TC<240 mg/dl

Lower cholesterol in ranges 200-240 mg/dl = Lowest all cause mortality

Countries, all cause mortality, age-standardized per 100,000

Mean total cholesterol, men (mg/dl), 2005.

Source: BHF-HEARTSTATS