

CHAPTER 37

Ulcer of Stomach and Duodenum, Deaths: Relation with Medical Radiation

Box 1 of Chap. 37

Summary: Regression Outputs, Ulcer of Stomach and Duodenum, Death Rates.

Below are the summary-results from all the regressions of MortRates upon PhysPops. MortRates are from Table 37-A, and PhysPops are from Table 3-A.

MALES

Year MortRate	Year PhysPop	R-squared	Constant	Coeff.	Std Err	Coeff/S.E
1940	1921	0.4257	0.9566	0.0765	0.0336	2.2778
1940	1923	0.4434	1.7250	0.0728	0.0308	2.3615
1940	1925	0.4114	3.0135	0.0651	0.0294	2.2120
1940	1927	0.4088	3.5173	0.0621	0.0282	2.1999
1940	1929	0.4326	3.6185	0.0618	0.0268	2.3101
1940	1931	0.4420	4.1778	0.0570	0.0242	2.3547
1940	1934	0.4115	5.2106	0.0484	0.0219	2.2122
1940	1936	0.4210	5.3403	0.0471	0.0209	2.2559
1940	1938	0.4036	5.7852	0.0433	0.0199	2.1767
1940	1940	0.3864	6.3609	0.0381	0.0182	2.0994
1950	1950	0.5962	3.5228	0.0374	0.0116	3.2147
1960	1960	0.6064	4.4028	0.0328	0.0100	3.2842
1970	1970	--	--	--	--	--
1980	1980	--	--	--	--	--
1990	1990	--	--	--	--	--

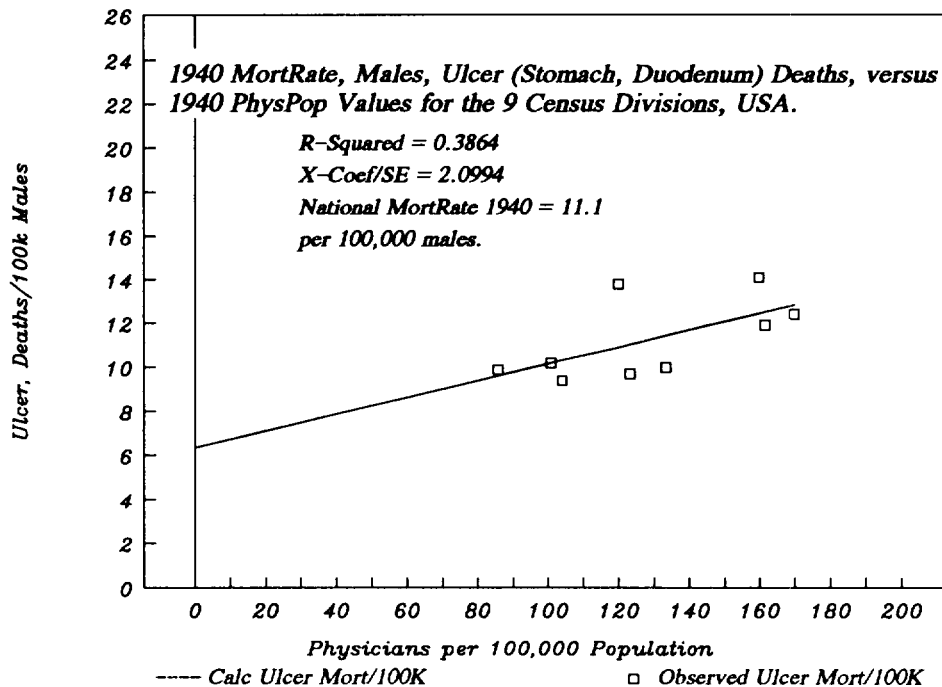


Figure 37-A

Table 37-A
Ulcer of Stomach and Duodenum: Rates by Census Divisions and National.

Annual death-rates per 100,000 are age-adjusted to the 1940 reference year. There are no exclusions by color or "race." Entries for the Nine Census Divisions are population-weighted; the averages below them are not. "National Rates" for both sexes: Deaths per 100,000 population (males + females). Males: Deaths per 100,000 male population. Females: Deaths per 100,000 female population.

MALES						
Census Division	1940	1950	1960	1970	1980	1990
Pacific	14.1	8.5	8.8	--	--	--
New England	11.9	9.5	10.3	--	--	--
West North Central	9.7	7.7	7.9	--	--	--
Mid-Atlantic	12.4	9.8	9.4	--	--	--
East North Central	10.0	8.5	9.3	--	--	--
Mountain	13.8	9.9	9.2	--	--	--
West South Central	9.4	5.8	6.8	--	--	--
East South Central	9.9	6.7	6.7	--	--	--
South Atlantic	10.2	7.4	7.9	--	--	--
Average ALL	11.3	8.2	8.5	--	--	--
Average High-Five	11.6	8.8	9.1	--	--	--
Average Low-Four	10.8	7.5	7.7	--	--	--
Ratio (High/Low)	1.07	1.18	1.19	--	--	--
FEMALES						
	1940	1950	1960	1970	1980	1990
Pacific						
New England						
West North Central						
Mid-Atlantic						
East North Central						
Mountain						
West South Central						
East South Central						
South Atlantic						
Average ALL						
Average High-Five						
Average Low-Four						
Ratio (High/Low)						
The National Rates below reflect a severe "small numbers problem" for the female rates, so we did not analyze the female data at all.						
NATIONAL RATES						
	1940	1950	1960	1970	1980	1990
Both Sexes	6.8	5.0	5.4	--	--	--
Males	11.1	8.3	8.6	--	--	--
Females	2.3	1.8	2.5	--	--	--

● - 1940, 1950, 1960: All rates come from Grove 1968, Table 67, Pages 737-740, Death-rates from "Ulcer of Stomach and Duodenum (540, 541)" ICD/7.
● - Omitted data are only marginally related to examination of Hypotheses 1+2, as noted in Chapter 4, Part 2c.