



JOHNS HOPKINS

BLOOMBERG SCHOOL of PUBLIC HEALTH

MAJOR DEPRESSION IN THE POPULATION: A PUBLIC HEALTH APPROACH

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Protecting Health, Saving Lives—Millions at a Time

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Section B: Time, Space, and Disease: The Ecological Approach







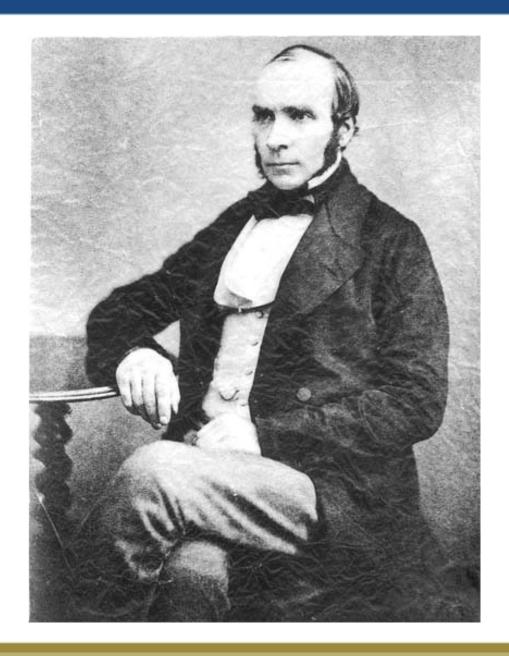






Time, Space, and Disease: John Snow On the Mode of Communication of Cholera London, 1855

The most terrible outbreak of cholera which ever occurred in this kingdom, is probably that which took place in Broad Street, Golden Square, and adjoining streets, a few weeks ago. Within two hundred and fifty yards of the spot where the Cambridge Street joins Broad Street, there were upwards of five hundred fatal attacks of cholera in ten days. The mortality in this limited area probably equals any that was ever caused in this country, even by the plague; and it was much more sudden, as the greater number of cases terminated in a few hours......



CHOLERA.

DUDLEY BOARD OF HEALTH,

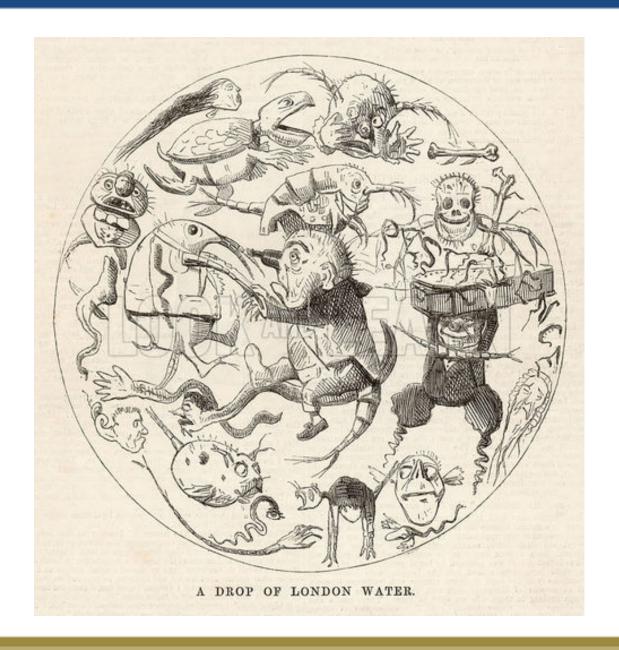
REALEY CAVE MOTION, THAT IN COMSHQUENCE OF THE

Church-yards at Dudley

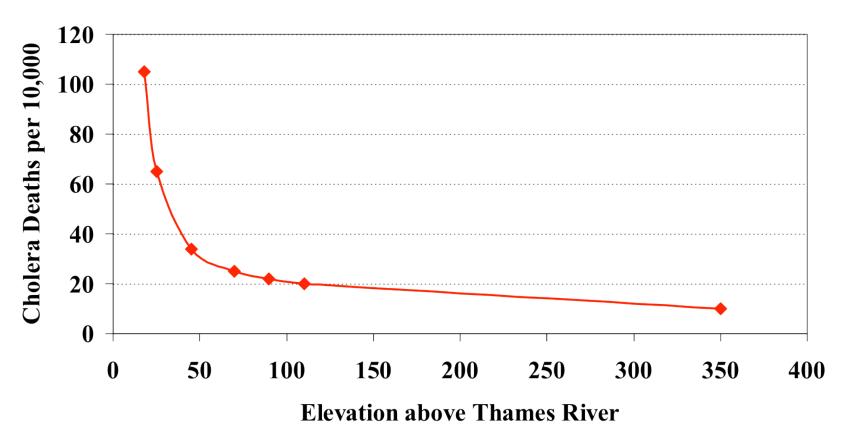
Being so full, no one who has died of the CHOLERA will be permitted to be buried after SUNDAY next, (To-morrow) in either of the Burial Grounds of St. Thomas's, or St. Edmund's, in this Town.

All Persons who die from CHOLERA, must for the future be buried in the Church-yard at Nethertor

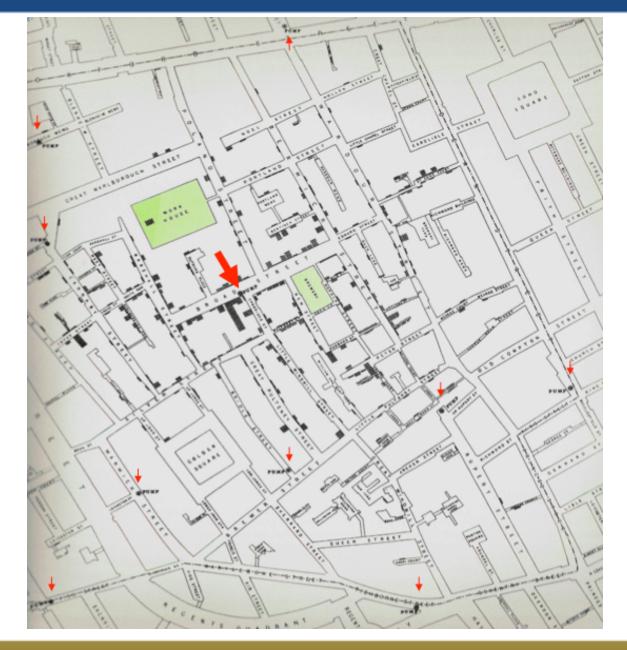
BOARD of HEALTH, DUDLEY.



The Miasma Theory of Cholera



Langmuir, A.D., Epidemiology of airborne infection. Bacteriol Rev, 1961.



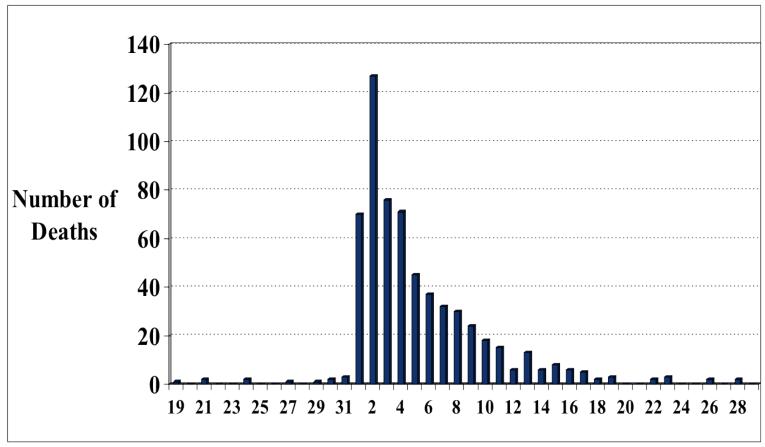


Cholera Deaths by District and Water Supply: Ecological approach

Water Supply Company	Number of districts	Population in 1851	Cholera Deaths per 100,000
Southwark & Vauxhall	12	167,654	114
Lambeth	3	14632	0
Both	16	301,149	60

From Snow on Cholera.

Deaths from London Cholera Epidemic August and September, 1854



Redrawn from Tufte, Visual Explanation, 1997.

Exceptions

- Brewery
- Workhouse
- Residence versus work
 – cabinetmaker
- Two schoolgirls at school in Dufour's place, Broad Street
- 59 year old widow on the west end, who preferred water from a cart which passed daily and which took water from Broad Street;
- and her niece, who visited her on August 31.

Ecological Approach: Depression & Inequality in States

Figure 1 Income inequality and prevalence of current depression across 45 states^a

