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#### Reconstructing the History of Koch Cemetery

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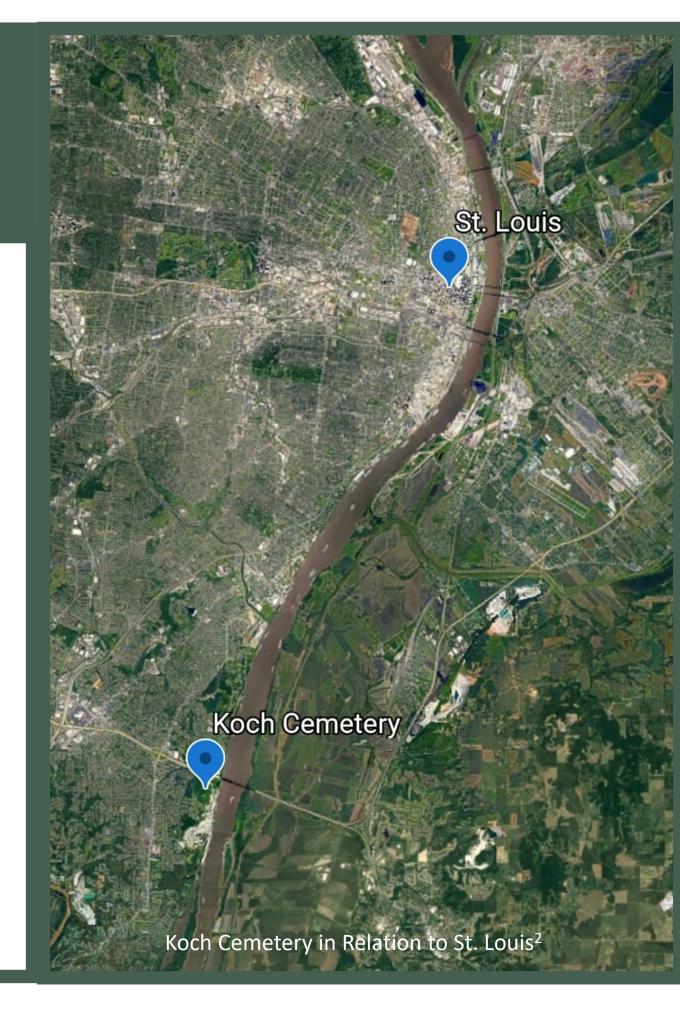
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# 110. Reconstructing the History of Koch Cemetery

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## SITE HISTORY AND PROJECT BACKGROUND

- **1865**: Quarantine Station
- Typhoid fever, yellow fever, cholera, smallpox, etc.
- 18,000 individuals buried with no records
- **1910 1983**: Koch Hospital
- To fight tuberculosis, the "White Plague"
- Late 1960s: excavation of skeletal remains from a sinkhole
- **1984:** National Historical Register Nomination<sup>1</sup>



## GOALS

- Decommingle and estimate the number of individuals present in the collection
- Use archival records to reconstruct site history and understand patient demographics
- Treatments and conditions
- Racial/ethnic and socioeconomic disparities in healthcare

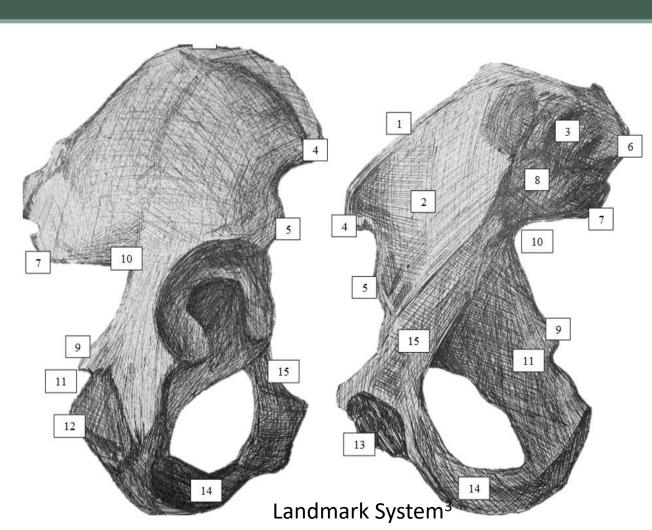
## MATERIALS AND METHODS

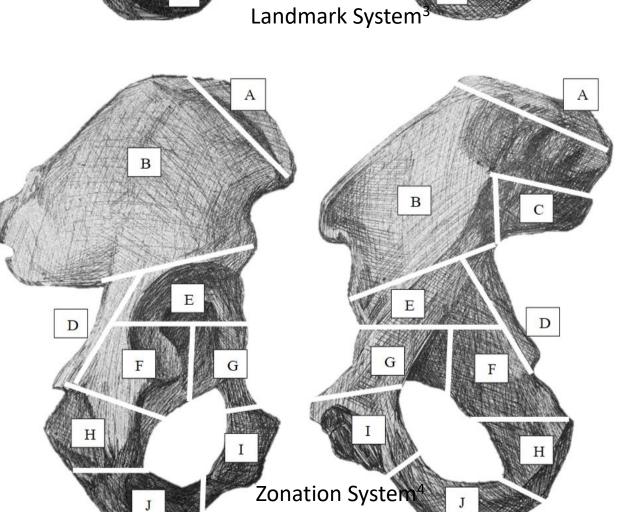
### Osteological

- 6 boxes containing 832 fragments Inventoried and sorted
- Zonation and Landmark Inventory
- Visual and Osteometric Pair-Matching
- Estimating MNI, LI, and MLNI
- Joint and Element Reassociations

#### Archival

- Ancestry LE
  - Name, Date of Birth, Date of Death, Country of Birth, Ancestry
- St. Louis Post-Dispatch, St. Louis Globe-Democrat, and St. Louis Star and Times





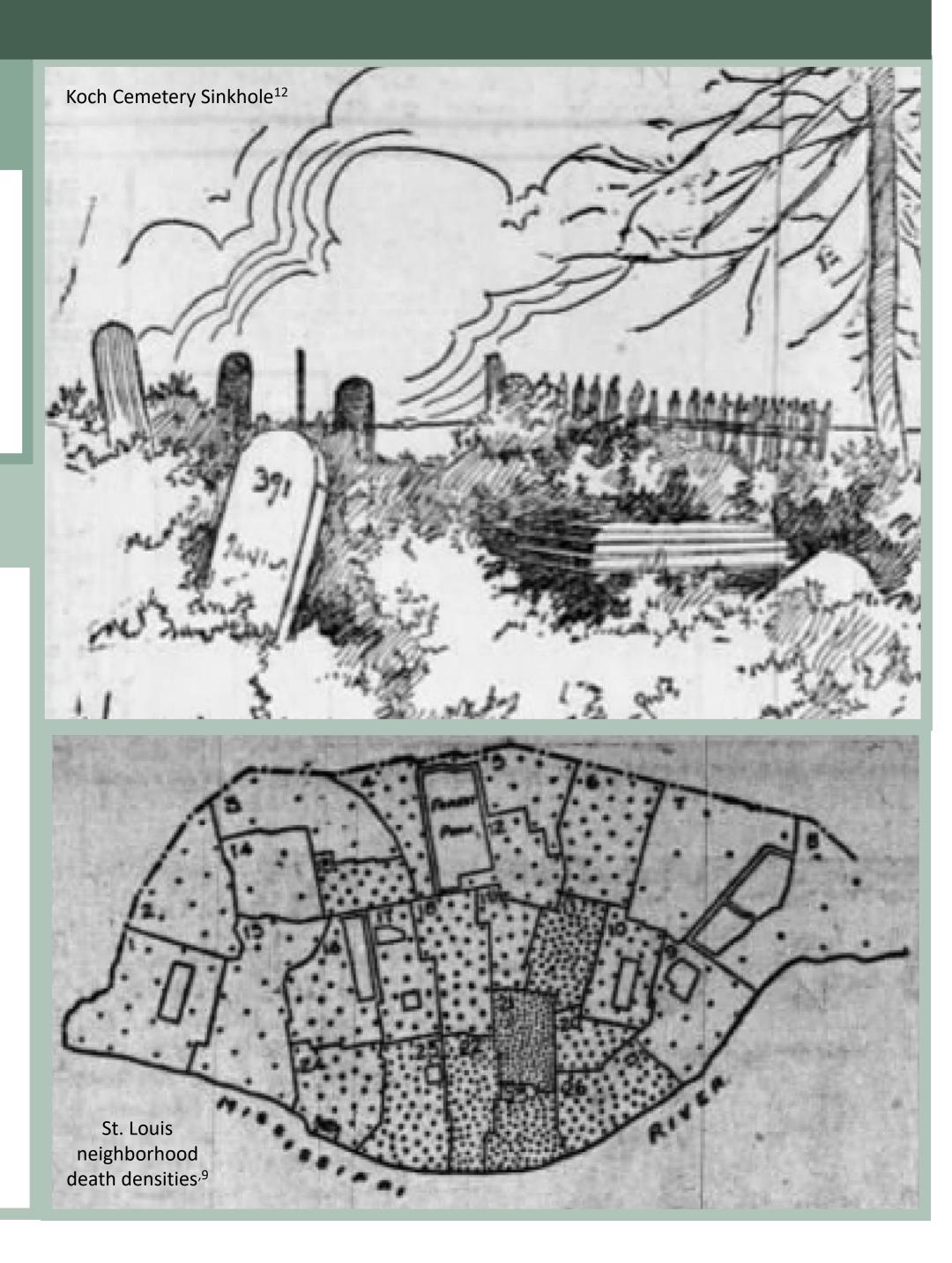
#### RESULTS

### Osteological

- MNI: 17 individuals
- LI: 45.3 individuals
- MLNI: 40 ± 18 individuals (95% confidence interval)
- Osteometric pair-matching, joint articulations, and element reassociations were severely limited by fragmentation

#### Archival

- The conditions at Koch were terrible understaffed, undersupplied, and overcrowded
  - Horse blood-serum, carbolic acid, and occupational therapy<sup>5,6,7</sup>
- 550 individuals from Ancestry LE and newspapers
  - Sex: 71.5% male, 21.6% female, 6.9% unknown
  - Ancestry: 59% white, 29% unknown, 12% black
  - Country/Region of Origin Known for 291 individuals: 22% Northern European, 15% North American, 15% Western European, 1% Southern European
- Age at Time of Death Analyses:
- By sex: Females died 7.4 years younger than males (p = 0.05)
- By racial/ethnic group: Black individuals died 10.9 years younger than whites (p = 0.0005)
- Newspapers reported higher death rates from tuberculosis amongst black individuals and in low socioeconomic status neighborhoods<sup>6,8,9,10f</sup>



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## DISCUSSION AND CONCLUSIONS

Koch Cemetery demonstrates the disproportionate affects of infectious disease on St. Louis' most vulnerable populations and the consequences of unequal access to quality healthcare.

- When populations are confronted with high death rates, their burial practices change to accommodate the number of the dead – such as burials in sink holes
- Even today, minorities are less likely to have access to high quality healthcare and more likely to have negative health outcomes
- Women are also more likely to have negative health outcomes, and are not taken as seriously by healthcare providers
- White males are prioritized during the allocation of healthcare related resources
- At Koch, this included hospital beds, facilities, treatments, etc.
- Infectious disease outbreaks are often blamed on minority groups