

## ACHD Lead Data Technical Changes Timeline

The following table details changes made in ACHD’s protocol for analyzing lead test data within the Pennsylvania National Electronic Disease Surveillance System. Data currently published on the ACHD website reflects the most recent changes.

Date	Technical Change
January 2019	Identified and resolved systemic issue for assigning lead test specimen type. Incorporated a text search algorithm to classify missing specimen types. Tests with a final specimen type as “missing” are assigned as a capillary test for reporting.
August 2019	<p>Began assigning the address for lead tests as the address reported at the time of the test. If this address is missing the most recent address is used.</p> <p>Example: A child had a lead test with an elevated result and the address for the test was 123 Main St, Wilkinsburg. The child then returns for a follow up test that is not elevated and had a change in address to 123 South Ave, Penn Hills. In this case the Wilkinsburg address reported at the time of the elevated result is used.</p>
September 2019	Implemented ‘best specimen date’ algorithm for assigning date of test. If the test’s specimen collection date is missing the algorithm searches additional date fields to determine the most accurate date to assign to the test.
June 2020	<p>Deduplicated data for aggregate metrics (i.e. 2015-2019). Aggregated metrics such as “Percent elevated by Census Tract 2015-2019” no longer allow for the double counting of children tested across years.</p> <p>Example:</p> <ul style="list-style-type: none"> <li>• Data published prior to June 2020: If a child was tested for lead in 2017 and 2018 within the same geography that child would count twice towards the 2015-2019 denominator of total children tested for that geography.</li> <li>• Data published on or after June 2020: If a child was tested for lead in 2017 and 2018 within the same geography that child would count once towards the 2015-2019 denominator of total children tested for that geography.</li> </ul>