

## Testing



A patient with kidney disease receives a **24-hour** Urine Calcium Test.

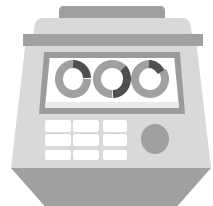


## Transformation Errors from IVD to LIS



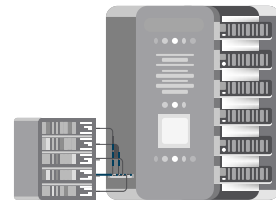
A **24-hour** Urine Calcium Test is performed. The analyzer automatically assigns the correct code to the test.

*LIVD* LOINC Code:  
"Calcium [Mass/volume] in 24 hour Urine"  
**18488-7<sup>1</sup>**



As the results are transferred from analyzer to the LIS, the code is incorrectly translated into to a code that represents a test performed at a **single point in time**.

*LIS* LOINC Code:  
"Calcium [Mass/volume] in Urine"  
**17862-4<sup>2</sup>**



Citations: <https://loinc.org/18488-7/>, <https://loinc.org/17862-4/>

## Loss of Data Meaning



The doctor sees that the test was conducted at a single point in time rather than over a 24-hour period. Based off of that information, the doctor determines that the patient's urine calcium is elevated and orders **unnecessary additional tests and increases the patient's current medication dosage**.

