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Laboratory Bulletir

Beaumont Laboratory

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How to Collect a Quality Sample: Preventing QNS Collections

What is QNS?

QNS is the abbreviation used for "Quantity Not Sufficient". Laboratory specimens are reported as QNS when:

- There is not enough specimen for the laboratory to perform the requested test(s).
- The amount of blood collected into the tube does not meet the proper blood: anticoagulant ratio. Testing samples with inadequate blood: anticoagulant ratios can result in the reporting of inaccurate test results.

What causes QNS?

- The use of expired tubes with decreased vacuum (i.e. tubes do not fill properly)
- Difficult patient draws
- Not ensuring tube is completely filled before removal

How can QNS specimens be prevented?

 For most serum and plasma tests, check to be certain that the tube is at least half full.

Note: Certain coagulation tests require a 90% to 100% full tube in order to achieve the proper blood-to-anticoagulant ratio.

What labs are primarily affected?

A variety of laboratory tests are adversely affected, resulting in **invalid** results. QNS specimens should be redrawn.

<u>Examples of testing adversely affected by the QNS</u> <u>status</u>

- Coagulation: Prolonged clotting times for PT, aPTT, TT and fibrinogen
- Hematology: Reduced MCV, HCT;
 Falsely decreased RBC, WBC, PLT counts;
 Changes in leukocyte morphology

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