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Semen Analysis Job Aid

Receiving the Specimen

Specimen Assessment

When receiving the sperm analysis specimen, do the following:

Step	Action
1	Verify that Patient Questionnaire is received and completed.
2	Determine specimen stability and acceptability criteria. Note time of collection if within or more than an hour from receipt. • If testing is greater than 2 hours after collection, reject the specimen.
3	Verify that the order was pulled correctly, and label is applied.
4	• If no order is in chart, have a pre-analytical staff follow up on test order. • Perform the test using downtime order to maintain specimen stability.
5	Proceed to the rest of the steps for laboratory analysis of the semen sample.

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Performing the Test

Performing the Test

To perform the semen analysis testing, perform the following steps.

Step	Action
1	Verify that any needed preventive maintenance and quality control are performed, completed and acceptable.
2	Pour the specimen into a graduated plastic centrifuge tube. Note the volume in mL and the specimen appearance on the questionnaire.
3	Transfer back the specimen into the original container.
4	Test the WBC and pH using the QwikCheck test strips. This will last about two minutes.
5	While the specimen is being tested with the QwikCheck test strips, enter the patient specimen data from the questionnaire.
6	Note liquefaction and viscosity if Normal or Abnormal. Add liquefaction kit as necessary. Perform necessary steps for low volume sample. Note: For low volume sample between 0.3 to 0.5 mL, prepare a 1:1 dilution using the QwikCheck dilution kit.
7	After entering all the information and any necessary dilution is performed, click Test Now.
8	Wait for auto-calibration to be done and to pass.
9	Charge the testing capillary.

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Post Initial Analysis and Follow up

Background

It is important to correlate sample information to the analysis process before finalizing the result to avoid confusing results.
Do not verify results without performing post analysis review to determine if further steps are needed.

Data review of SQA analysis

The following steps must be covered to complete data review of the analysis by SQA.

Step	Action
1	If there is a count that is not less than 2M/mL and Motility is zero, perform slide visualization/manual count.
2	Slide visualization method should be performed if any of the following scenario is seen: – If <2 – Any NA – Any zero – Debris/bubble Instrument setting should have the counters for Low Quality and Debris enabled to prompt for visualization.
3	Click Additional for the additional information on the Test Patient window POST analysis.
4	When Sperm Concentration <2 M/mL, in cases of low motility and/or poor morphology, only the following are reported: – Sperm Concentration, – Total Motile, Motile Sperm Concentration, and – SMI values.

Visualization Method

When Visualization has to be performed in addition to Fresh Mode analysis, the following must be considered:

Step	Action
1	It is important to zoom out when performing any count using the visualization process.
2	The number of *motile sperm* must be greater than the number of *Progressively Motile Sperm.*
3	Note if sperm is seen. Click NO SPERM SEEN if no spermatozoa were found in all fields of view. The NO SPERM SEEN button option will remove all results.

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Post Initial Analysis and Follow up and Completing the Test Order

Instrument Data Interface

To properly release results for Semen Analysis, the following must be performed:

Step	Action
1	Note that the following information directly transmits to Cerner from what's inputted to SQA or obtained by the instrument: • Semen Collection Time • Days of Abstinence • Method of Collection • Semen Collection Container • Collection Issues • Transport Issues • Specimen Received Time • Analysis Time • Semen Appearance • Semen Appearance Comment • Semen pH • Semen WBC • Semen Volume • Sperm Concentration • Immotility • Nonprogressive Motility • Progressive Motility • Tot PR Mot Cnt • Norm Morph Pct • Total Sperm/Ejaculation • Total Motility (PR + NP)
2	If slide visualization/manual count confirms that the count is lesser than the value obtained by SQA, change Sperm Concentration in Cerner ARE to <2 M/mL.

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Post Initial Analysis and Follow up and Completing the Test Order, continued

Instrument Data Interface

Continuation:

Step	Action
3	If Sperm Concentration is <2 M/mL, manually write that information on the questionnaire or instrument printout as applicable: o A choice from the dropdown must be entered for Sperm Concentration comment. **Rare Sperm/hpf** if sperm is seen **No Sperm/hpf** if no sperm is seen. o The following DTAs that were automatically sent from SQA must be replaced to be reported as NA instead: • Immotility • Nonprogressive Motility (NP) • Progressive Motility (PR) • Tot PR Mot Cnt • Norm Morph pct • Total Sperm/Ejaculation • Total Motility (PR + NP) o For values on Progressive Motility and Nonprogressive Motility that has a less than or greater than sign, report as NA. o The following information should be addressed and filled: • Collection issues • Transport issues • Semen Appearance If there are no issues, enter None in Cerner ARE.
4	Make sure all counts, motility, and conditions by which specimen was submitted are consistent.
5	Run thru each DTA to be resulted if it is check-marked ready to be verified (in cases of duplicate runs).
6	Click Verify. Check if test order is completed by scanning specimen in ORV.

Signature Manifest

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Hematology Regional Documents

Operations Director Approval

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Medical Director Approval

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