Title: Post Vasectomy Semen Analysis

Principle	spermatozoa in a post vase	structions for procedure to c ctomy semen analysis. Post the vasectomy operation. T i motility.	operative semen analysis
Scope	This procedure is intended staff.	for Clinical Laboratory Scie	entists and laboratory
Specimen sources	• Fresh, post vasectomy semen in a sterile container.		
Specimen collection	As directed by physician.		
Specimen transport	Specimens should be transported at room temperature and tested as soon as possible, within 1 hour of collection.		
	Refrigerated or frozen specimensMislabeled or unlabeled specimens		
Decembra		¥7	<u>Ct</u>
Reagents	Description	Vendor	Storage
	Qwik Check Liquefaction	MES	Room temperature

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Title: Post Vasectomy Semen Analysis, Continued

Materials and supplies	 Glass slide Coverslip Disposable pipette Conical Centrifuge tube 	
Equipment	CentrifugeMicroscope	
Safety or Special Safety Precautions	Refer to the safety manual for general safety requirements.	

Procedure Follow the steps below to perform post vasectomy semen analysis

Step	Action		
1	Allow the specimen to liquefy. Swirl semen in container to determine if coagulum has liquefied. A liquefied specimen will take the shape of the container.		
	Note:		
	Normal semen sample liquefies within 60 minutes at room		
	temperature. Continuous gentle mixing or rotation of specimen		
	during liquefaction may reduce errors in determining sperm		
	concentration. Failure of specimen to liquefy within 30 minutes		
	must be recorded in the report. When samples do not liquefy within		
	30 minutes, extend incubation time and pipette the specimen		
	repeatedly with a sterile pipette. If this method fails, use of an		
	enzymatic treatment- Qwik Check Liquefaction Kit may be used.		
	Use of these manipulations must be recorded in the report. Refer to package insert for use.		
	package insert for use.		
	Note: Motility should not be reported on specimens tested more		
	than 1 hour after collection.		
2	Mix the liquefied semen sample well.		
3	Using a disposable pipette, place a drop of specimen on a slide.		
4	Cover the drop on the slide with a coverslip.		
5	Observe under high power magnification (40x), scan at least 20 fields.		
6	Look for the presence of spermatozoa.		

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make note of any WBC's or	r RBC's present.			
	If no sperm present, transfer semen sample to a conical centrifuge tube			
Spin the sample at 3000 RF	PM for 15 minutes.			
Decant the supernatant.				
Place a drop of sediment or	n a slide and place a coverslip over the			
specimen.				
Examine 10 fields for spern Note the number of sperma	natozoa.			
Note the number of spermatozoa / HPF and if they are motile. Also				
make note of any WBC's or				
	Report in the Cerner using Accession Result Entry in Cerner t			
following:	1			
If	Then			
No sperm are observed	• Report 0 Sperm for Post Vas			
	Count			
	• No Sperm Seen for Motility.			
	• Choose the drop down			
	comment "Post Vas Count was			
	confirmed by concentration			
	technique."			
Sperm are present	• Enumerate the number/hpf for			
	Post Vas Count: 0 - 3, 4 - 20, or >20			
	Select Motile Sperm or Non- Matile for Matility			
	Motile for Motility.			
Sperm are present and	• For Motility, choose the drop			
specimen was tested	down comment: "Not			
more than 1 hour after	performed >1hr after			
collection	collection."			

• Note: After centrifugation, motility can be lost. Do not report motility on centrifuged specimens. Motility should also not be reported on specimens tested more than 1 hour after collection.

Reference Range < 4 per HPF

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Title: Post Vasectomy Semen Analysis, Continued

Limitations	• Incomplete ejaculation and/or incomplete collection of total ejaculation may lead to inaccurate results.
Controlled	The following controlled documents support this procedure.
Documents	SCPMG-PPP-0136 Managing the Semen Analysis-Patient Questionnaire Form

 Reference

 World Health Organization, 2010, WHO laboratory manual for the Examination and Processing of human semen, 5th edition

 College of American Pathologists, 2019, Hematology and Coagulation Checklist

Form SCPMG-Form-0035 Semen Analysis – Patient Questionnaire

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