

DOCUMENT NUMBER:

DOCUMENT TITLE:

DOCUMENT NOTES:

LOCATION:

VERSION:

DOC TYPE:

STATUS:

EFFECTIVE DATE:

NEXT REVIEW DATE:

RELEASE DATE:

EXPIRATION DATE:

AUTHOR:

PREVIOUS NUMBER:

OWNER:

CHANGE NUMBER:

Title: Post Vasectomy Semen Analysis

Principle	spermatozoa in a post vase	structions for procedure to c ctomy semen analysis. Post the vasectomy operation. T l 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 specimens Mislabeled or unlabeled specimens 		
D (D		<i>a</i> .
Reagents	Description	Vendor	Storage
	Qwik Check Liquefaction	MES	Room temperature

Continued on next page

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 coagulum has liquefied. A liquefied specimen will take the shape of th 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.			
	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.			

Continued on next page

Title: Post Vasectomy Semen Analysis, Continued

7	Note the number of spermatozoa / HPF and if they are motile. Also			
	make note of any WBC's or RBC's present.			
8	If no sperm present, transfer semen sample to a conical centrifuge tube.			
9	Spin the sample at 3000 RPM for 15 minutes.			
10	Decant the supernatant.			
11	Place a drop of sediment on a slide and place a coverslip over the			
	specimen.			
12	Examine 10 fields for spermatozoa.			
13	Note the number of spermatozoa / HPF and if they are motile. Also			
	make note of any WBC's or			
14	-	ng Accession Result Entry in Cerner the		
	following:			
	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-		
		Motile for Motility.		
	Sperm are present <u>and</u>	• For Motility, choose the drop		
	specimen was tested	down comment: "Not		
	more than 1 hour after	performed >1hr after		
	collection	collection."		
	 Enumerate any RBC's or WBC's, if present, as few, moderate many in the comment field. <i>Note: After centrifugation, motility can be lost. Do not remotility on centrifuged specimens. Motility should also not remoted on specimens tested more than 1 hour after cellection.</i> 			
	reported on specimens tested more than 1 hour after collection.			

Reference Range < 4 per HPF

Continued on next page

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

Author

Robyn Kanemoto, MLS(ASCP)

Regional Parent Document Reference Number: SCPMG-PPP-0390 Rev: 01

Document Number: SBMC-PPP-0613 **Title:** Post Vasectomy Semen Analysis **Effective Date:** 26 Aug 2020

All dates and times are in Pacific Standard Time.

Post Vasectomy Semen Analysis

Initial Approval

Name/Signature	Title	Date	Meaning/Reason
Qiyamaa Portillo (K237031)	Assistant Director Operations	04 Aug 2020, 11:33:51 AM	Approved

Operations Director Approval

Name/Signature	Title	Date	Meaning/Reason
Janice Wolf (K119893)	Director Operations Area Lab	05 Aug 2020, 01:27:33 PM	Approved

Medical Director Approval

Name/Signature	Title	Date	Meaning/Reason
Sony Wirio (A478893)	Pathologist, Medical Director	25 Aug 2020, 08:42:11 AM	Approved