Beaumont

	PolicyStat ID: 9232576	
Origination:	4/23/2021	
Effective:	4/23/2021	
Last Approved:	4/23/2021	
Last Revised:	4/23/2021	
Next Review:	4/23/2023	
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	Laboratory	
Area:	Laboratory-Hematology	
Key Words:		
Applicability:	Royal Oak	

Post Vasectomy Check- RO

Document Type: Procedure

I. PURPOSE AND OBJECTIVE:

The purpose of this procedure is to guide the laboratory in performing a post vasectomy check.

II. PRINCIPLE:

Following a vasectomy, no sperm should be present in seminal fluid. Presence of sperm can indicate that the procedure was not successful and may result in an unplanned pregnancy. This test is performed only to indicate the presence or absence of sperm following a vasectomy procedure. Post vasectomy checks are performed for **Outreach (formerly BRL) clients only.**

III. SPECIMEN COLLECTION AND HANDLING:

Туре:	Seminal fluid collected in a sterile container.	
Anticoagulant:	None	
Amount:	Minimal sample size is 1.0 mL Optimum sample size is 3.0 mL	
Specimen Handling:	Specimen must be well mixed before being analyzed.	
Timing:	Receipt of specimen is preferred within 24 hours of collection. Keep at room temperature.	
Criteria for unacceptable specimens:	Inappropriate volumes are unacceptable and must be re-collected.	

IV. EQUIPMENT/REAGENTS:

- Microscopic Glass Slide
- Pipet
- Coverslip
- Microscope
- Sealant (Cytoseal 60[™] or equivalent) available commercially from Fisher Healthcare. Store at room temperature until manufacturer's expiration date on bottle or until quality deteriorates.

V. QUALITY CONTROL:

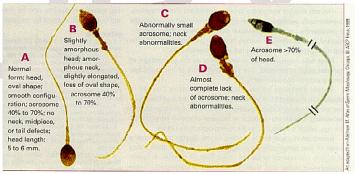
Control slides should be made from known positive and negative cases and read with each batch of patients. Document control results on Post Vas Check Quality Control Record. Proficiency (i.e. accuracy and reliability) testing is accomplished at least twice per year by participation in a College of American Pathologist (CAP) proficiency program or equivalent.

VI. PROCEDURE:

- A. Mix seminal fluid by inverting the container 10-20 times by hand.
- B. Using pipet, place 1-2 drops of specimen on glass slide. Coverslip specimen.
- C. Scan slide under 20X power (dry objective), looking for the presence of sperm. (See Figure 1.) If no sperm are seen, concentrate an aliquot of the specimen by spinning at 1000g (2900 rpm) for 15 minutes. Pour off supernatant, leaving about 250 mcL of specimen/ sediment in the tube. Remix specimen and plate again. Repeat step 3 above.
- D. Report in LIS as "Present" or "Absent".
- E. Add Laboratory Information System (LIS) comment "Verified by Concentrated Smear".
- F. Seal coverslipped slide(s) with sealant and allow to air dry.
- G. File slide(s) in slide box in drawer.

VII. EXPECTED VALUES:

Figure 1. Microscopic Appearance of Sperm



The expected results for this test are the absence of sperm.

VIII. LIMITATIONS:

The presence of sperm will vary from the length of time since the vasectomy. If only one week, you may expect to still see sperm. If 6 months since vasectomy and sperm is still seen, suspect an incomplete procedure.

IX. NOTES:

- A. This test is performed only to indicate the presence or absence of sperm following a vasectomy procedure.
- B. This test is to be performed for Outreach (formerly BRL) clients only.
- C. Figure 1 is only intended to show the microscopic appearance of sperm.

X. REFERENCES:

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Attachments

No Attachments

Approval Signatures

Step Description	Approver	Date
CP Chief Medical Director	Peter Millward: Chief, Pathology Service Line	4/23/2021
Hematology Medical Director Designee	Ann Marie Blenc: System Med Dir, Hematopath	4/23/2021
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Applicability		

Royal Oak