



MOL SMH/SMP and SEZARY REVIEW PROCEDURE

PRINCIPLE

The blood smear examination by a pathologist provides a visual confirmation of CBC/differential results, and may provide morphologic clues for a specific case finding to help in the diagnosis and management of pathological disease states.

A smear review by pathology should be submitted based upon the *Pathology Review Criteria* listed in our Regional Hematology Standards. A pathology review may also be requested by the provider.

A smear for Hematology review (SMH) may be requested by any technologist for slides with questionable morphology or unidentifiable cells.

SAMPLE REQUIRED

- 2 peripheral smears should be submitted, 1 unstained slide and 1 stained slide. (It is necessary to use frosted slides, with clearly written patient name and accession number, using a #2 pencil. Cerner labels cannot be used with the cover slip instrument at RRL.)
- The patient sample EDTA tube, if available
- The completed SMP/SMH form, to include pertinent patient diagnosis and history
- The Hematology instrument printout with *manual* differential recorded on paper, if any instrument flags or abnormal differential criteria are noted

REAGENTS and SUPPLIES

- Glass slides (Fisher brand superfrost – OneLink number 10149095)
- Hematology stain (see individual MOL)

PROCEDURE: SMH and SMP REVIEWS

1. Order the SMH or SMP as an add-on to the corresponding CBC accession number, in LIS function DOE (Department Order Entry) / Accession Add-on.

NOTE: If the provider has placed an order for (SMP) path review *only*, a CBC must also be ordered and collected. For order compliance, this requires an extra step as outlined below.

- Order the CBC as an add-on to the corresponding SMP accession number, in LIS function DOE (Department Order Entry) / Accession Add-on.
- When the sample information screen pops up, look for the “order communication type” field in the bottom right corner of the page.
- Click on the drop down menu and select the Protocol / Standing Order option. (This is a required field to indicate the CBC order is part of our protocol)
- Select your printer, to print the labels for the CBC tube, then click the “submit orders” icon.

2. Perform the CBC and differential:

NOTE: Frosted slides are required – no Cerner labels should be used on slides submitted for review. Write the patient identifiers on the frosted edge.

- If the CBC is STAT, both the CBC and a *manual* differential must be performed at the MOL. Record the manual differential on the instrument print out. If there are no instrument flags or abnormal differential criteria noted, the automated differential is acceptable.
- If the CBC is ROUTINE, you may choose to perform the CBC/differential at the MOL, or send the sample tube to RRL for completion of the CBC/differential.
- If the MOL tech is submitting the smear for a Hematology review due to questionable cells, the differential should still be performed and completed at the MOL, utilizing the “other” cell result option as needed, and entering a comment “unidentified cells”. You may also add “sent for review” in the result comment field if there is space available.

3. Fill out the SMP/SMH form fully, and indicate (circle) which test is being submitted.

- Include any pertinent patient history (from the LIS or Health Connect) to assist the reviewing pathologist.
- Look for previous SMP orders within 365 days. (If an SMP has been performed within 365 days ***and*** there are no new abnormalities noted on the present smear, a repeat SMP is not required.)

4. Package all paperwork (SMH/SMP form and instrument printout), one stained and one unstained smear, and the sample tube - in a single bag and on its own tracking list. Send to RRL for processing.

PROCEDURE: SEZARY CELL REVIEW

Note: Sezary cell orders go directly to a pathologist for review. **DO NOT** order this test. The Anatomic Pathology department will order it and assign the case a number in CoPath.

1. Fill out the SMH.SMP form, but instead of circling SMH or SMP - **clearly write SEZARY CELL** in the area for “Reason for slide review”.
2. Package the form and the patient EDTA sample in a single bag, and send to RRL.

RESULT REPORTING

- SMH/SMP: Results will be entered by RRL Hematology staff after the (SMH/SMP) review is completed by the pathologist.
- SEZARY: Results will be entered by RRL Cytology staff after the review has been completed.

LIMITATIONS

If an MOL tech has requested feedback, RRL will send a copy of the final LIS patient chart report along with the MOL stained slide. The RRL stained slide must be kept at RRL for 10 years.

If only 1 slide has been submitted, it must remain at RRL.