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**OPINION: BONE MARROW
ASPIRATION & BIOPSY**
APPROVED: 11/94
**REVISED DATE: 1/06, 8/09, 9/12, 11/15, 7/19
9/24**
**ORIGINATING COMMITTEE:
SCOPE OF PRACTICE COMMITTEE**

Within the Scope of Practice of X RN _____ LPN

ADVISORY OPINION BONE MARROW ASPIRATION AND BIOPSY

It is within the scope of practice for a Registered Nurse (RN) to perform bone marrow aspiration and biopsy (BMAB) of the posterior iliac crest, if the following requirements are met:

I. GENERAL REQUIREMENTS

- A. Written policy and procedures are maintained by agency\employer.
- B. Only RNs who have satisfactorily completed an agency's instructional program, and have had supervised clinical practice are allowed to perform BMAB procedures.
- C. Documentation of completion of the instructional program and supervised clinical practice is on file with the employer.

II. COURSE OF INSTRUCTION is to include:

- A. Anatomy and physiology specific to selected BMAB sites
- B. Physiology of blood formation (to understand the purpose of BMAB)
- C. Indications and contraindications of the procedure
- D. Informed consent
- E. Potential adverse reactions and/or complications including but not limited to infection, bleeding, nerve, and tissue damage
- F. Techniques and use of equipment for BMAB including the use of power devices
- G. Selection of appropriate site and preparation of slides
- H. Appropriate management of comfort/pain/sedation techniques
- I. Nursing care responsibilities including documentation, patient education, and post procedure care instructions.

III. RATIONALE

An RN who has satisfactorily completed an instructional program and supervised clinical practice in BMAB can safely perform BMAB procedures.

IV. REFERENCES

- Cherington, C., Robetorye, R., Anderson, E., Beuschel, T., Gunderson, J., Maningo-Salinas, M., & Valdez, R. (2011). High Quality Bone Marrow Core Biopsy and Aspiration (BMBX) Procedures Can Be Performed by a Nurse Led Team Using the On Control Battery Powered Bone Marrow Biopsy System. <https://doi.org/10.1182/blood.V118.21.4743.4743>
- Draganski, E., Deason, T., & Craig, F. E. (2019). Bone Marrow Aspiration and Biopsy Performed by RNs: A Review of Clinical Practice. *The American journal of nursing*, 119(9), 47–53. <https://doi.org/10.1097/01.NAJ.0000580260.18537.ca>
- Hoffman, J. (2015) Multidisciplinary bone marrow program prepares nurses for aspirations, biopsies. *Oncology Nurse Advisor*. <https://www.oncologynurseadvisor.com/news/multidisciplinary-bone-marrow-program-prepares-nurses-for-aspirations-biopsies/>
- Marinelli, L. M., Fang, H., Howard, M. T., Hanson, C. A., Haack, J. J., Eick, E. A., Allen, R. J., Ruffridge, D. E., Byrne, C. M., & King, R. L. (2018). Bone Marrow Biopsy Operator Experience and Impact on Aspirate, Biopsy, and Ancillary Testing Quality. *Mayo Clinic proceedings. Innovations, quality & outcomes*, 2(3), 241–247.
- Washington State Board of Nursing. (no date). Commonly Asked Questions: Can A Registered Nurse Perform Iliac Crest Bone Marrow Aspirations And Biopsies? <https://nursing.wa.gov/faq/can-registered-nurse-perform-iliac-crest-bone-marrow-aspirations-and-biopsies>
- Lubejko, B. & Wilson, B. (2019) *Oncology Nursing Scope and Standards of Practice*.