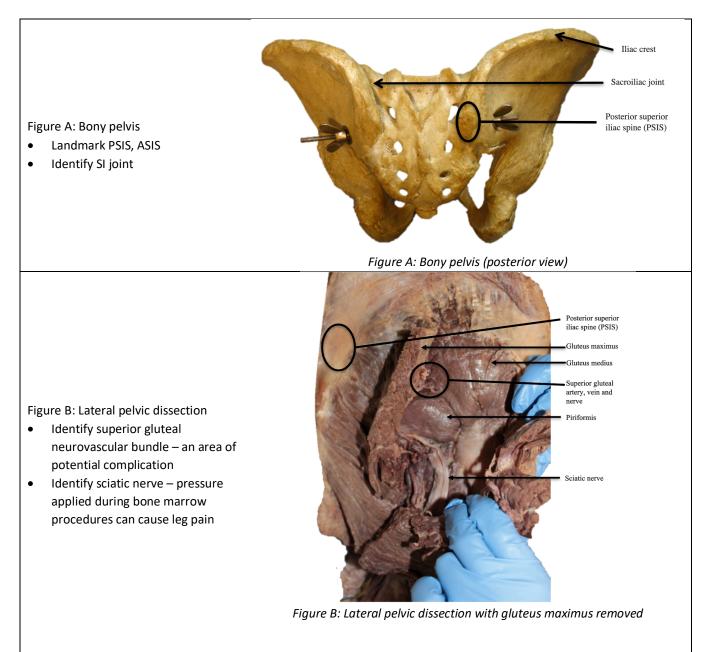
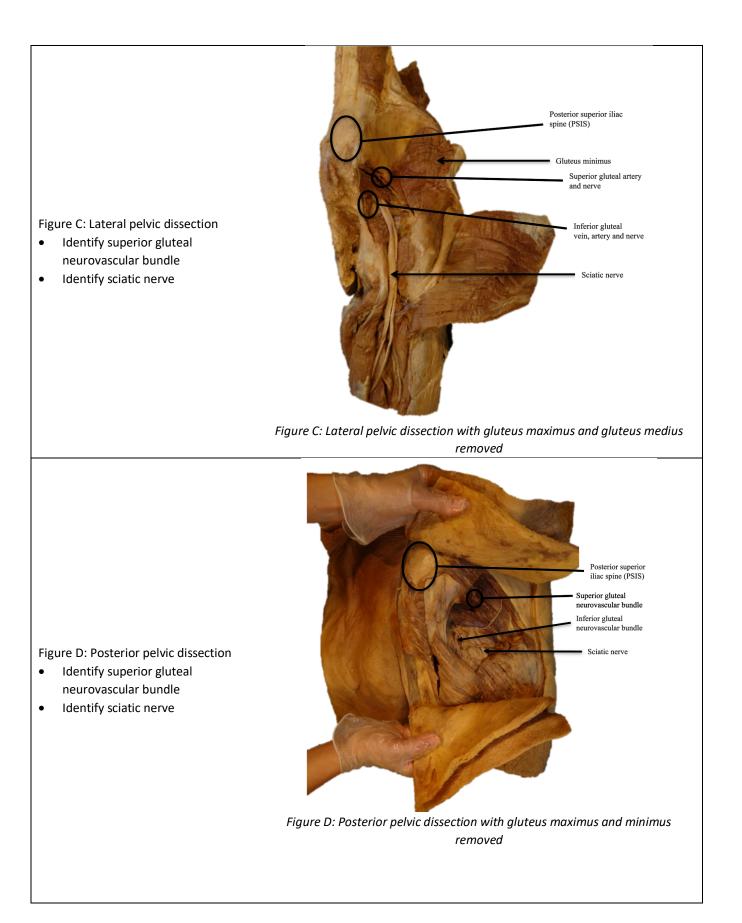
eSupplement

Workshop layout:

Part 1a: A video reviewing relevant anatomy and bone marrow biopsy technique. Available via DVD/CD.¹ *Part 1b*: A review of prepared specimens led by an anatomy expert (see Figures A-G). We recommend discussing the following:





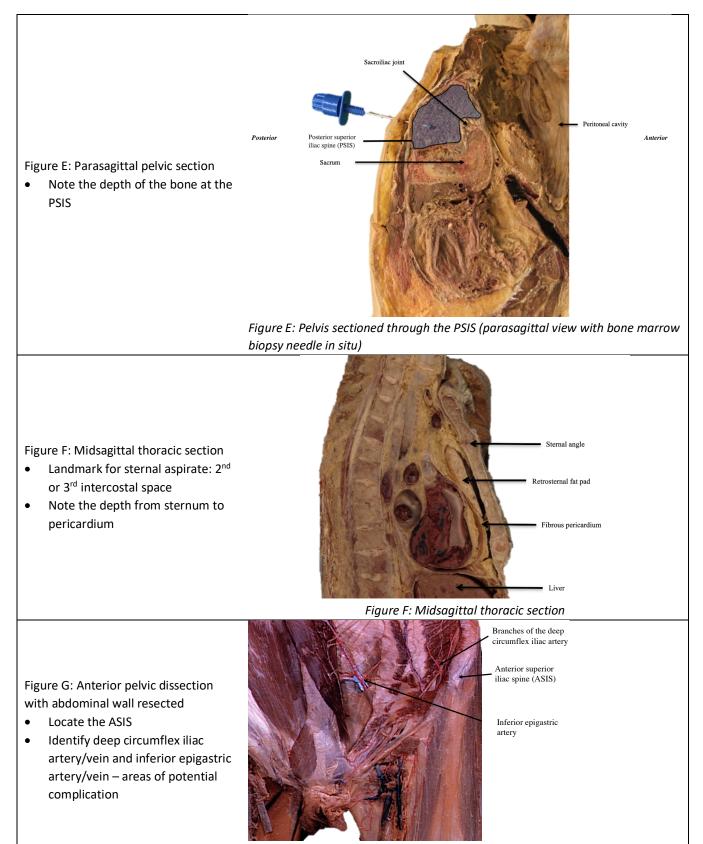


Figure G: Anterior pelvic dissection with abdominal wall resected²

Part 2: Hands-on practice of bone marrow procedures on cadavers.

We recommend cadavers of varying habitus to simulate clinical practice. A staff hematologist should begin by demonstrating the proper technique for PSIS and ASIS bone marrow biopsies and sternal bone marrow aspirates on a cadaver. A discussion of the advantages and disadvantages of each site is recommended (Table 2, available upon request).

Participants should practice:

- Bone marrow biopsies of the PSIS in the prone position and the ASIS in the supine position
- Bone marrow aspirate needle insertion into the sternum with sternal guard in place

Trainees are encouraged to practice each procedure 3-5 times and on at least two different cadavers. A staff hematologist should circulate to give participants feedback on their PSIS, ASIS and sternal sampling techniques.

Safety: We advise ensuring safety measures are taken in accordance with anatomy lab protocols to protect participants. These include appropriate participant footwear, good hand hygiene and dawning protective gowns and gloves while handling specimens. All sharps (including scalpels, biopsy needles and aspirate needles) should be dealt with using caution and disposed of safely in accordance with the anatomy lab's policy.

References

- Zeller M, Goldszmidt M, Cristancho S, Johnson M, Creces D, Mangel J. Bare bones: A return to anatomy for teaching bone marrow biopsy and aspirate procedures. MedEdPORTAL Publications. 2015. https://doi.org/10.15766/mep_2374-8265.10091
- Bourn D. Figure 137-6: Dissection of female inguinal region. Bassett Collection of Stereoscopic Images of Human Anatomy Stanford Medicine Lane Medical Library.