

**BMD Reliability Study
Study of Osteoporotic Fractures
Clinic Visit 5**

Measurements: Hip and AP spine BMD

Machine: SOF QDR 1000

When: V5 and 2-3 weeks later, or measurements 2-3 weeks apart on nonSOF participants

Participants: Any willing volunteer, including SOF women and other volunteers age 70 or older. Once recruitment for this substudy begins, please ask all consecutive SOF participants if they will volunteer. Do not pressure reluctant participants. Only willing subjects should be enrolled.

Number: 12 participants per clinic, minimum

Examiners: Two most experienced densitometry technicians from each clinic

Detailed procedures:

- Ask for volunteers during the regularly scheduled V5 bone density exam (or before hand if needed to accomodate the extra time required for the spine measurement).
- Each of the two examiners per clinic should scan 6 of the 12 participants for the initial measurement and 6 of the 12 participants for the repeat measurement. Examiners for the first measurement can be assigned by convenience rather than randomly.
- For the repeat measurements after 2-3 weeks, each examiner will scan 3 of the participants that they scanned for the initial measurement, and 3 that were initially scanned by the other examiner. Participants can be assigned to examiner at the repeat visit by convenience rather than randomly, as long as the assignments yield the above distribution between examiners.
- Scans and complete scan analyses should be performed according to the usual SOF protocol. All logging, archiving, flagging, etc. should be performed as usual for the V5 hip measurement. In addition, archive the spine scan to optical disk.
- Enter the SOF ID, name and scan ID and operator ID of the first set and repeat set of scans into the reliability study log.

- For nonSOF participants, assign sequential clinic IDs starting with the following:

Baltimore:	15000
Minneapolis:	25000
Pittsburgh:	35000
Portland:	45000

- For the repeat set of scans, examiners should be blinded to the analysis and BMD results of the first measurement (i.e. don't review the initial set of scans prior to the repeat scan visit).
- First analyze the repeat set of scans without the compare feature. Copy the scan PAIRS (initial and repeat) to floppy diskette for transmittal to the BMD QC center and also archive the scans to optical disk.

Label each floppy "NO COMPARE" and include SOFIDs and Scan IDs.

- Then, reanalyze the repeat set of scans using the compare feature, using the initial scan for the reliability study as the baseline. Copy the scan PAIRS to floppy diskette for transmittal to BMD QC center and also COPY the scans to optical disk. Don't use the Archive option under the Archive Option Selection menu; use Copy Only.

Label each floppy "WITH COMPARE" and include SOFIDs and Scan IDs.

- Send hard copies of scan pairs analyzed with and without the compare feature and floppy diskettes to the BMD QC center each time repeat measurements have been completed on 4 participants.
- Scan pairs for analyses with and without compare will be entered into 2 separate subdirectories at the BMD QC center.

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Scan Log**

1. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

2. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

3. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

4. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

5. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

6. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

7. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

8. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

9. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

10. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

11. Name: _____

SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____

12. Name: _____

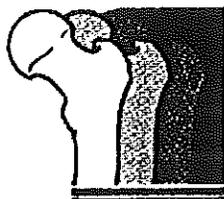
SOF ID _____

Initial hip scan: _____ ID _____ Date _____ Operator # _____

Repeat hip scan: _____ ID _____ Date _____ Operator # _____

Initial spine scan: _____ ID _____ Date _____ Operator # _____

Repeat spine scan: _____ ID _____ Date _____ Operator # _____



MULTI CENTER
STUDY OF
OSTEOPOROTIC
FRACTURES

University of California
Prevention Sciences Group

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Memo #775

To: SOF Clinic PIs, Clinic Coordinators and QDR operators

From: Maurice Dockrell, Elizabeth Edwards

Re: ~~BMD Reliability Study~~

The procedures for this have turned out to be more complicated than we thought!
Please follow these revised analysis and archiving procedures:

SOF Participants

1. Make a printout of the unanalyzed V5 hip and spine (this will help the other examiner with positioning when doing the repeat scan)
2. Analyze the participants V5 hip scan in compare as usual
3. Archive the scans (including the V5 spine scan)
4. Re analyze the V5 hip scan by holding down the "Alt" key and pressing F10 - this will create the "baseline" for the reliability study.
5. When the repeat scans are done, first analyze the scans without using the "Compare" feature.
6. Copy the scan pairs to floppy disk for transmittal to the BMD QC center. Label each floppy "NO COMPARE" and include SOF IDs and Scan IDs.
7. **COPY** these scans to your optical disk, (do not use the Archive feature as this will overwrite the official V5 compare analysis to the regular baseline).
8. Re analyze the repeat scans using the "Compare" feature using the re analyzed V5 scan as the baseline.
9. **COPY** the scan pairs to your optical (don't use "Archive") and also copy these scans to floppy disk for transmittal to the BMD QC center. Label each floppy "WITH COMPARE" and include SOF IDs and Scan IDs.
10. **RESTORE THE ORIGINAL V5 COMPARE ANALYSIS FROM YOUR OPTICAL DISK - THIS IS VERY IMPORTANT.**

Non SOF participants

1. Assign sequential IDs as described in memo #766

2. Print out unanalyzed copies of the hip and spine scans for use as positioning references for the repeat scans.
3. Analyze the hip and spine scans
4. Analyze the repeat set of scans without using the "Compare" feature.
5. **COPY** these scans to your optical disk and copy them to floppy disk - for transmittal to the BMD QC center- label each floppy "NO COMPARE" and include NonSOF IDs and Scan #s.
6. Re analyze the repeat scans using the "Compare" feature using the initial scans as the baseline for comparison.
7. **COPY** the scan pairs to your optical (don't use "Archive") and also copy these scans to floppy disk for transmittal to the BMD QC center - label each floppy "WITH COMPARE" and include NonSOF IDs and Scan #s.

Send printouts of scan pairs analyzed with and without the compare feature and floppy diskettes to the BMD QC center each time repeat measurements have been completed on 4 participants.

Please call us if you have any questions about these rather complicated procedures!!!

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