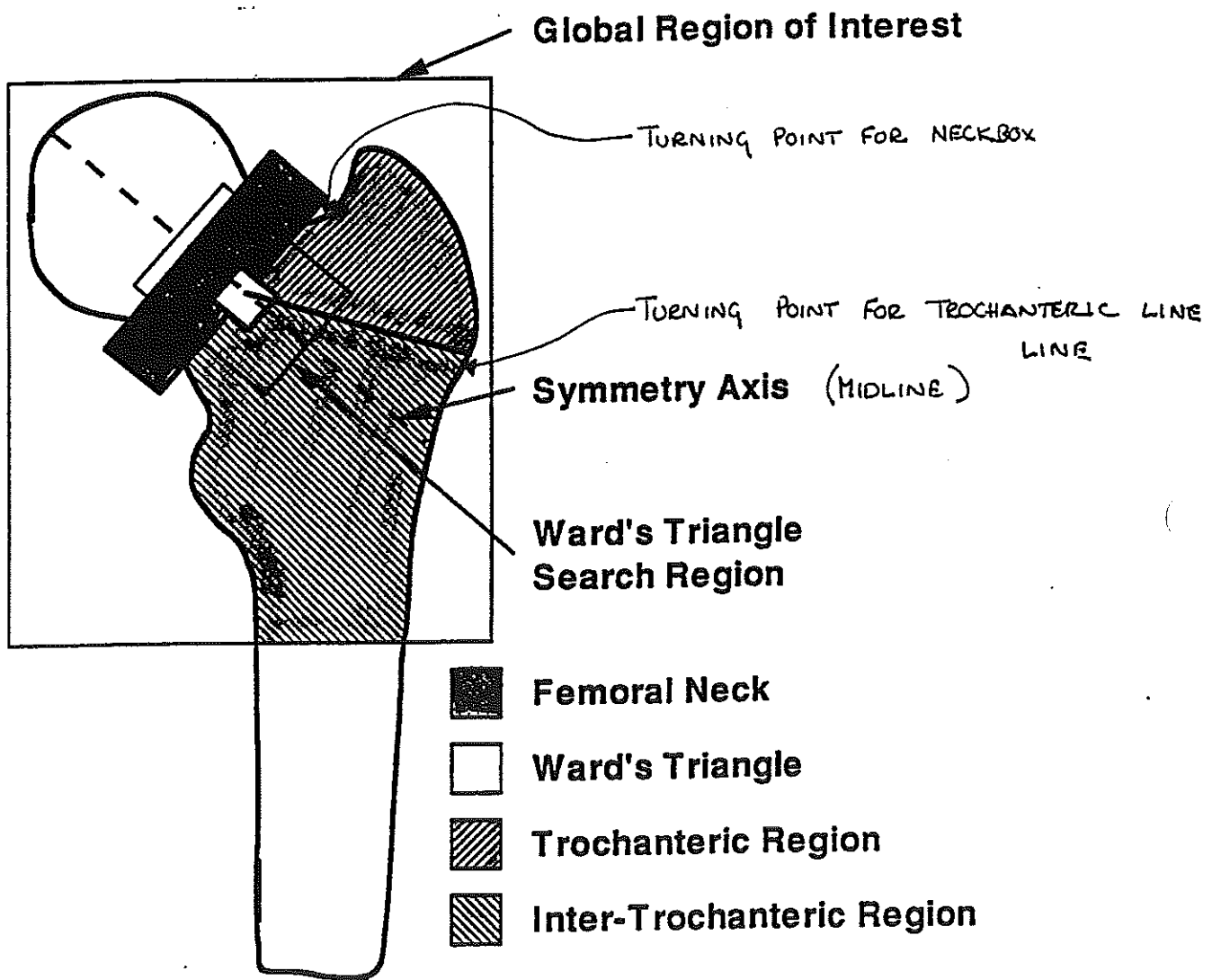


STUDY OF OSTEOPOROTIC FRACTURES
DXA ATLAS
VISIT 4



SUMMARY OF HIP REGION PLACEMENT - BASELINE

GLOBAL ROI (default size)

TOP - up to 10 pixels outside edge of acetabulum
INNER - up to 10 pixels outside edge of acetabulum
BOTTOM - approximately 10-15 pixels below bottom of lesser trochanter
OUTER - 6 pixels outside edge of greater trochanter

BONE EDGES

the global ROI is enlarged to allow bone edges to fill automatically

only the top and inner sides of the global ROI are expanded (10 pixels at a time) to get the bone edges to fill in

if edges fail to be outlined completely after expanding the ROI as much as possible, the default size is returned to and the edges are filled in manually

MIDLINE

never alter manually
runs parallel to sides of neck
divides the head of femur equally
dashed lines do not extend beyond outer bone edge

NECKBOX

default neckbox size is either 51x16 or 53x16 (depends on software)
upper corner near trochanter just touches the turning point on trochanter
remaining 3 corners are in soft tissue
lower portion does not overlap the lesser trochanter or ischial bone
area is minimum of 2.5 cm (8-10 pixels wide)

WARDS TRIANGLE

never manually adjust
11x11 pixel square
touching or only 2-3 pixels from neckbox
never touching dotted lines of neck
never located on the greater trochanter

TROCHANTERIC LINE

tip is at outer turning point of greater trochanter
located within about 5 pixels either side of the midline, if no turning point
line does not extend beyond outer bone edge

SUMMARY OF HIP REGION PLACEMENT - COMPARE

GLOBAL ROI

same size as the baseline
most important to match dotted region around neck

BONE EDGES

similar to baseline edges

MIDLINE

never alter manually
runs parallel to sides of neck
divides the head of femur equally
dashed lines do not extend beyond outer bone edge

NECKBOX

same width as baseline
same location as baseline

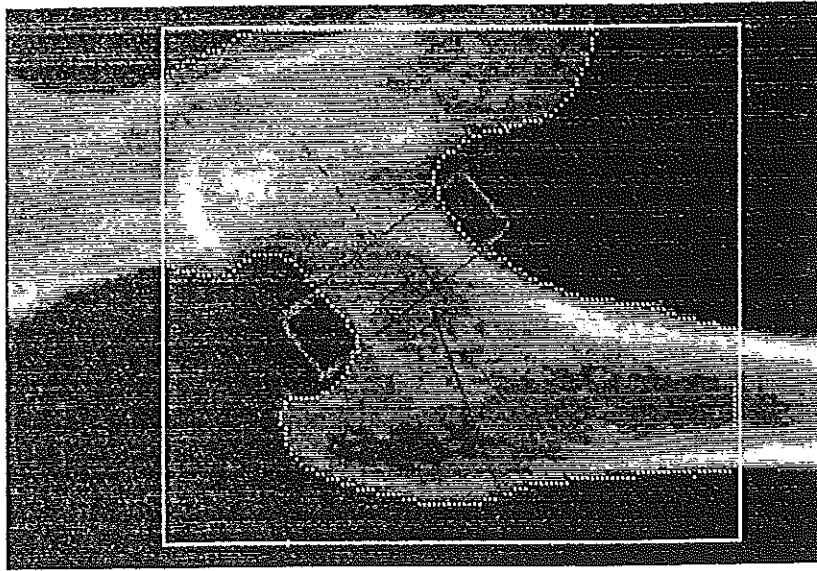
WARDS TRIANGLE

never manually adjust
11x11 pixel square
touching or only 2-3 pixels from neckbox
never touching dotted lines of neck
never located on the greater trochanter

TROCHANTERIC LINE

tip is at outer turning point of greater trochanter
located within about 5 pixels either side of the midline, if no turning point
line does not extend beyond outer bone edge

k = 1.245 d0 = 121.3(1.000H)



Aug. 24 08:05 1992 [102 x 114]
Hologic QDR 1000 (S/N 203)
Right Hip V4.47.1

BEFORE REANALYSIS

- NECK Box TOO HIGH UP NECK

W08249204 Mon Aug 24 07:53 1992

Name: dickey, anna m.

Comment:

I.D.: 20309 Sex: F

S.S.#: - Ethnic: W

ZIP Code: Height: 5' 4"

Scan Code: 210 Weight: 117

BirthDate: 11/07/18 Age: 73

Physician:

C.F. 1.005 1.038 1.000

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
--------	----------------------------	----------------	-------------------------------

Neck	4.44	2.73	0.615
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Troch	10.11	4.58	0.453
-------	-------	------	-------

Inter	19.61	13.57	0.692
-------	-------	-------	-------

TOTAL	34.15	20.88	0.611
-------	-------	-------	-------

Ward's	1.10	0.40	0.360
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Midline (92,120)-(24, 66)

Neck	63 x 16 at L-31, 181
------	----------------------

Troch	-14 x 39 at L 0, 01
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Ward's	11 x 11 at L -7, 81
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HOLOGIC

S.O.F. MINNEAPOLIS

k = 1.245 d0 = 121.3(1.000H)



-Oct 6 14:34 1992 [102 x 114]
Hologic QDR 1000 (S/N 203)
Right Hip V4.42

W08249204 Mon Aug 24 07:53 1992
Name: dickey, anna m.
Comment:
I.D.: 20309 Sex: F
S.S.#: - - Ethnic: W
ZIP Code: Height: 5' 4"
Scan Code: 210 Weight: 117
BirthDate: 11/07/18 Age: 73
Physician:

C.F. 1.005 1.038 1.000
Region Area BMC BMD
(cm2) (grams) (gms/cm2)

Neck	4.71	2.78	0.590
Troch	9.49	4.31	0.455
Inter	19.10	13.24	0.693
TOTAL	33.30	20.33	0.611
Ward's	1.11	0.39	0.353
Midline	(92,120)-(24, 66)		
Neck	51 x 16	at [-25, 15]	
Troch	-15 x 37	at [0, 0]	
Ward's	11 x 11	at [-7, 9]	



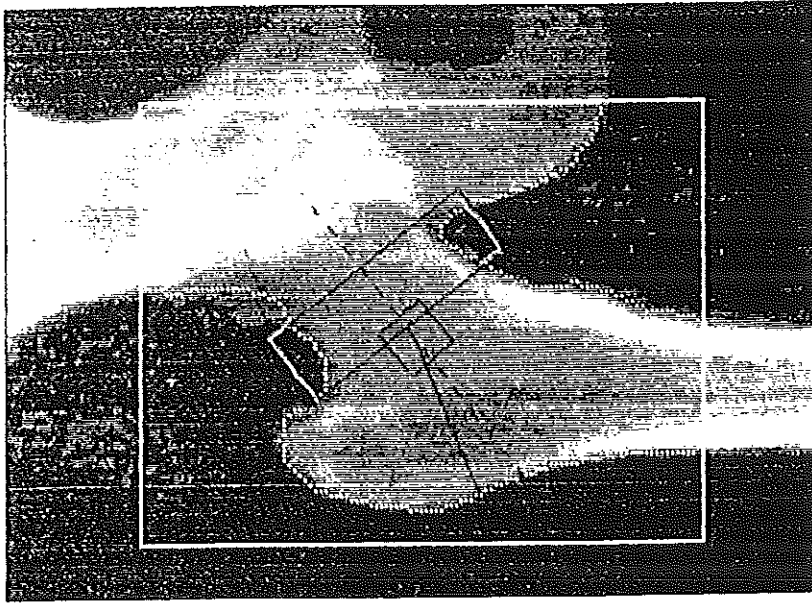
HOLOGIC

AFTER REANALYSIS

- NECK BOX TOUCHES TURNING POINT OF TROCHANTER

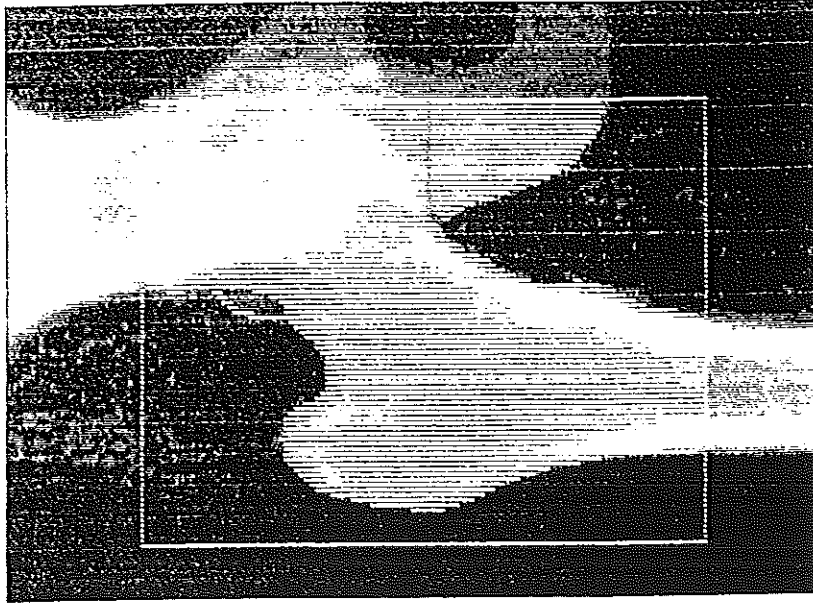
OUTLINING NECK NOTCH & DELETING ISCHLUM OF HIP SCAN

k = 1.239 d0 = 122.7(1.000H)



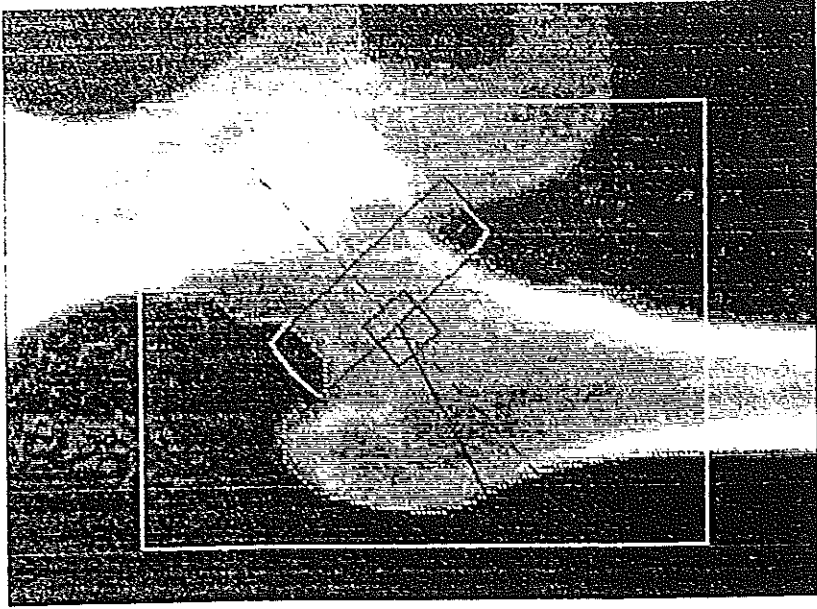
-Oct 6 13:21 1992 [88 x 112]
Hologic QDR 1000 (S/N 203)
Right Hip V4.42

BEFORE



NOTCH OUTLINING
&
ISCHLUM DELETION

k = 1.239 d0 = 122.7(1.000H)



-Oct 6 13:38 1992 [88 x 112]
Hologic QDR 1000 (S/N 203)
Right Hip V4.42

AFTER

NECK BMD = 0.623

20269: number

20269: authors

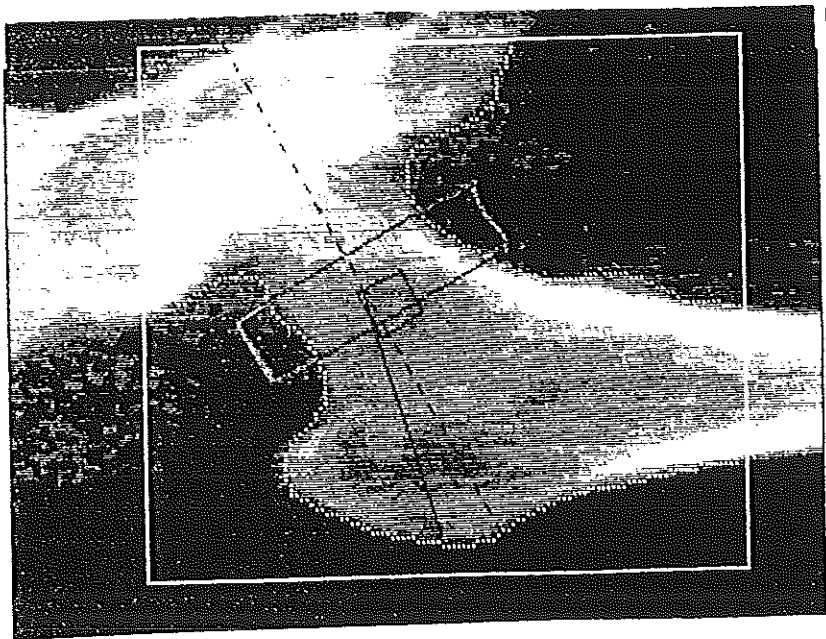
NECK BMD = 0.646

REANALYZING

BASELINE : 1 LOW UP SCANS

(continued from above)

246 d0 = 121.3(1.000H) Na



11:08 1992 [106 x 119]
ic QDR 1000 (S/N 203)
Right Hip U4.47.1

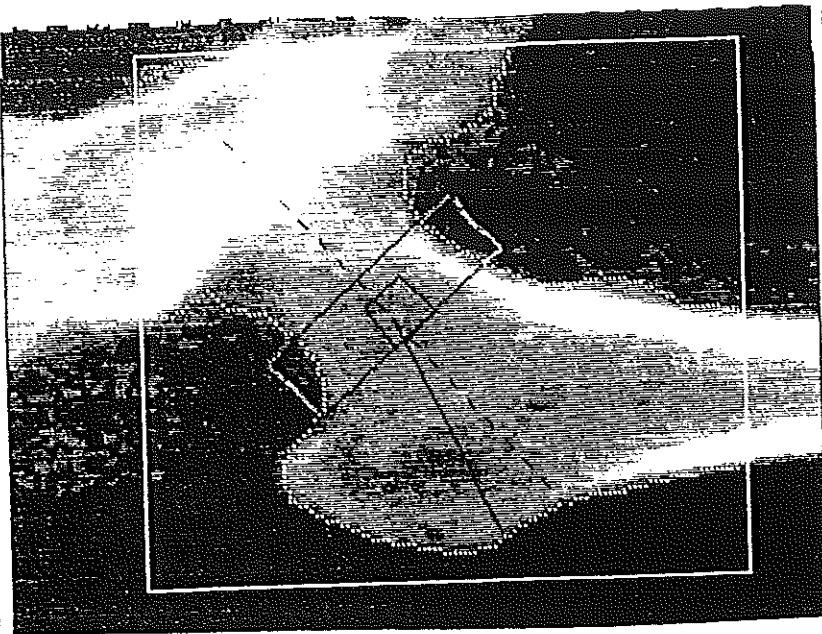
ORIGINAL FOLLOW UP ANALYSIS

NECK BMD = 0.643

(midline is crooked)

2052: knee!

46 d0 = 121.3(1.000H) Na



14:19 1992 [106 x 119]
ic QDR 1000 (S/N 203)
Right Hip U4.42

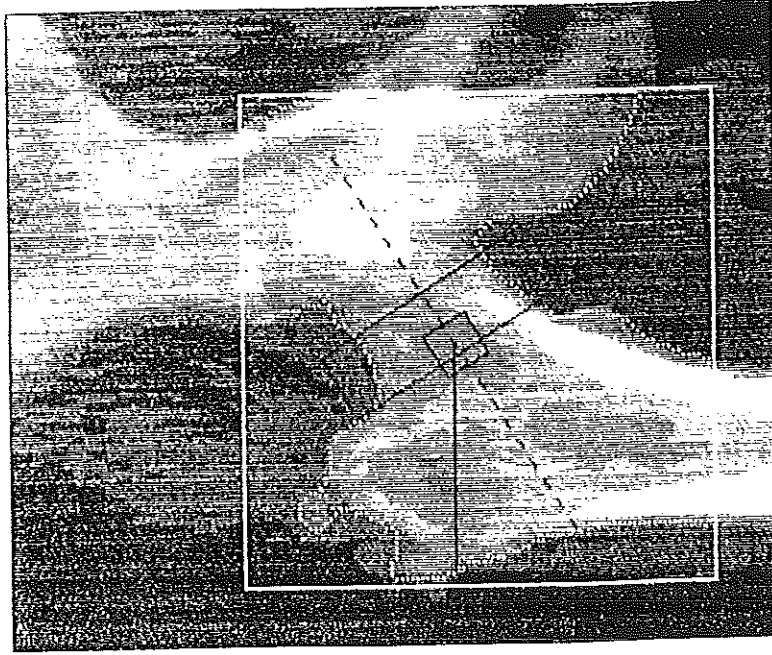
REANALYZED FOLLOW UP

NECK BMD = 0.606

(midline is straight)

DELETING CALCIFIED TISSUE FROM HIP

= 1.234 d0 = 116.1(1.000H) 6.72



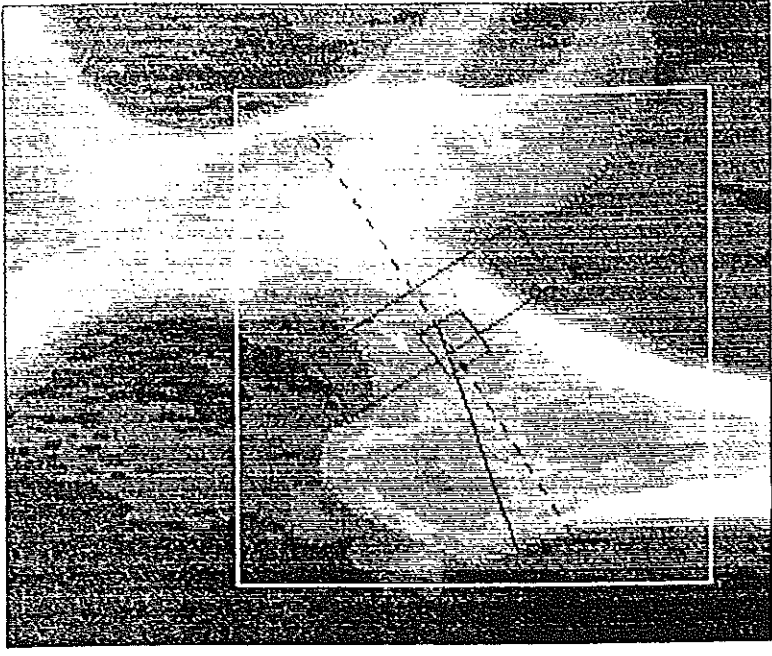
.Oct 8 14:46 1992 [98 x 94]
Hologic QDR-2000 (S/N 2162)
Array Right Hip Fast V4.42A:1

Before

TROCH BMD = 0.523



= 1.234 d0 = 116.1(1.000H) 6.72



.Oct 8 15:12 1992 [98 x 94]
Hologic QDR-2000 (S/N 2162)
Array Right Hip Fast V4.42A:1

After

TROCH BMD = 0.578