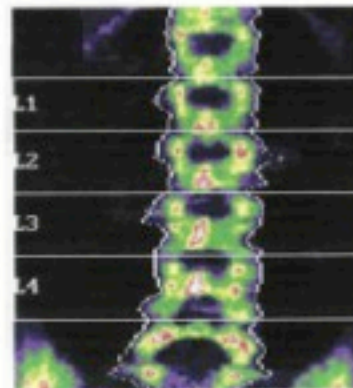
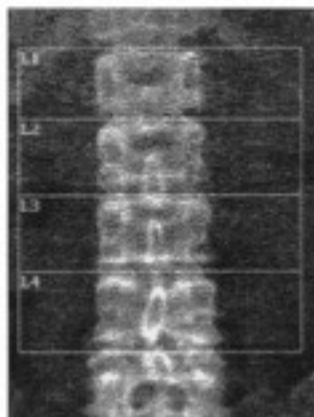




DEXA PITFALLS

MOVIMENTI DEL PAZIENTE

ERRORI NEL POSIZIONAMENTO DEL PAZIENTE

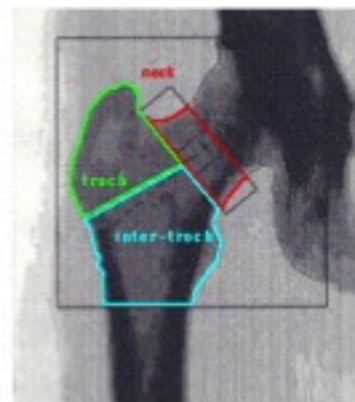


ERRORI ANALITICI DELLA COLONNA VERTEBRALE

Numerazione delle vertebre

Posizionamento markers intervertebrali

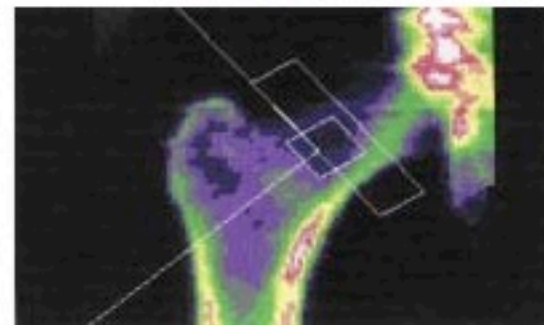
Identificazione estremità vertebrali



ERRORI ANALITICI DEL FEMORE

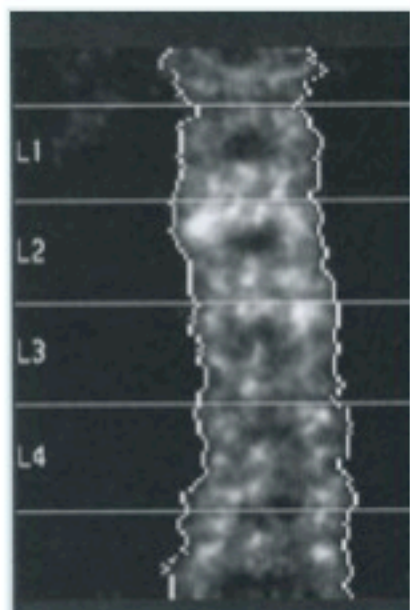
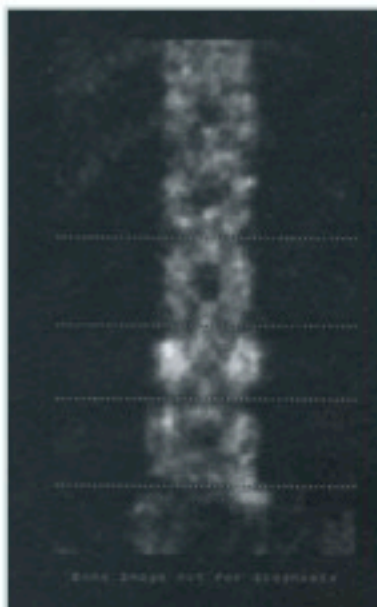
Posizionamento Regions of Interest (ROIs)

Identificazione estremità ossee



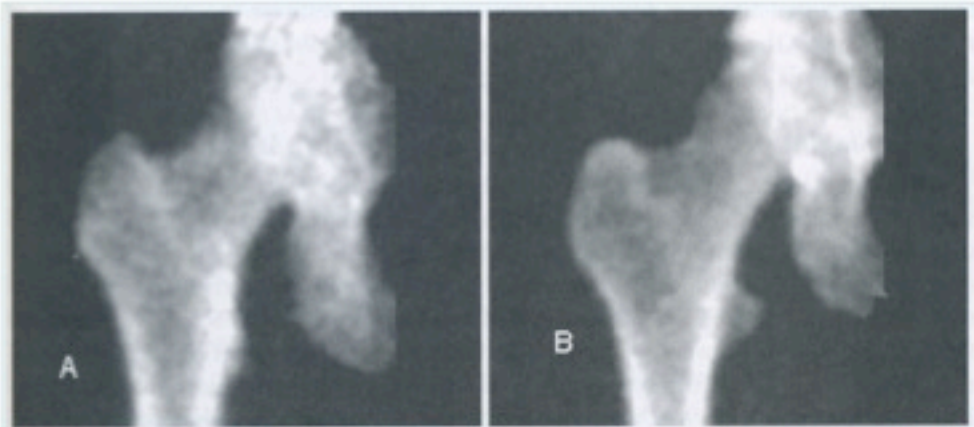


DEXA PITFALLS



PRINCIPALI ARTEFATTI DELLA COLONNA VERTEBRALE

Degenerazione vertebrale
Fratture da compressione
Calcificazioni aterosclerotiche
Stent o filtri cavali
MdC per lo studio del canale digerente
Cemento di pregressa vertebroplastica
Pregressa fissazione vertebrale
Oggetti esterni (piercing, ganci reggiseno, bottoni metallici)



PRINCIPALI ARTEFATTI DEL FEMORE

Osteoartrite o Artrosi
Ampio pannicolo adiposo
Oggetti esterni (portafoglio, monete)



ISTITUTO AUXOLOGICO ITALIANO IRCCS
Via Ariosto 13
20145 MILANO

Telephone: 02/91111 E-Mail: sonna@auxologico.it Fax: 02/91112429

Patient ID: NCCY1089249
DOB: 27 November 1971

Sex: Female
Ethnicity: White
Height: 160.0 cm
Weight: 59.0 kg
Age: 37

Referring Physician: DR ARZUFFO P

Scan Information:
Scan Date: 14 June 2007 Ex: ANM0004
Scan Type: a Lumbar Spine
Analysis: 14 June 2007 07:32 Version: (2,3,3)
Lumbar Spine
Operator: PL
Model: Discovery A (SN 80333)
Comment:

DXA Results Summary:

Region	Area (cm ²)	BMD (g/cm ³)	BMD (g/cm ³)	T-Score	SD	Z-score	Δ%
L1	18.19	1.20	0.928	-2.7	36		
L2	15.89	1.17	0.901	-4.4	35		
L3	17.76	1.19	0.909	-4.4	35		
L4	18.02	1.17	0.904	-4.7	36		
Total	68.86	1.18	0.904	-4.2	36		

142 000211 06 07 1106 007 1106 50 1 00

ISTITUTO AUXOLOGICO ITALIANO IRCCS
Via Ariosto 13
20145 MILANO

Telephone: 02/91111 E-Mail: sonna@auxologico.it Fax: 02/91112429

Patient ID: NCCY1089249
DOB: 27 November 1971

Sex: Female
Ethnicity: White
Height: 160.0 cm
Weight: 59.0 kg
Age: 37

Referring Physician: DR ARZUFFO P

T-Score -3.2

Physician's Comment:

HOLOGIC

ISTITUTO AUXOLOGICO ITALIANO IRCCS
Via Ariosto 13
20145 MILANO

Telephone: 02/91111 E-Mail: sonna@auxologico.it Fax: 02/91112429

Patient ID: NCCY1089249
DOB: 27 November 1971

Sex: Female
Ethnicity: White
Height: 160.0 cm
Weight: 59.0 kg
Age: 37

Referring Physician: DR ARZUFFO P

Scan Information:
Scan Date: 14 June 2007 Ex: ANM0004
Scan Type: a Lumbar Spine
Analysis: 21 June 2007 13:55 Version: (2,3)
Lumbar Spine
Operator: PL
Model: Discovery A (SN 80333)
Comment:

DXA Results Summary: L1-L4

Scan Date	Age	BMD (g/cm ³)	T-Score	% Based on	BMD Change vs Previous
14.06.2007	37	0.944	-2.2	36.8%	7.8%
05.05.2003	33	0.844	-3.7	39.9%	-6.7%
23.03.2001	31	0.844	-3.7	37.9%	4.9%
23.03.2000	32	0.814	-3.9	3.7%	-3.8%
07.05.1999	31	0.822	-3.9	4.7%	1.8%
08.05.1998	30	0.814	-4.8	2.8%	-0.7%
22.05.1997	29	0.828	-3.8	2.8%	3.9%
25.10.1996	28	0.796	-4.1		

142 000211 06 07 1106 007 1106 50 1 00

ISTITUTO AUXOLOGICO ITALIANO IRCCS
Via Ariosto 13
20145 MILANO

Telephone: 02/91111 E-Mail: sonna@auxologico.it Fax: 02/91112429

Patient ID: NCCY1089249
DOB: 27 November 1971

Sex: Female
Ethnicity: White
Height: 160.0 cm
Weight: 59.0 kg
Age: 37

Referring Physician: DR ARZUFFO P

Scan Information:
Scan Date: 14 June 2007 Ex: ANM0004
Scan Type: a Lumbar Spine
Analysis: 21 June 2007 13:55 Version: (2,3)
Lumbar Spine
Operator: PL
Model: Discovery A (SN 80333)
Comment:

DXA Results Summary: L1-L4

Scan Date	Age	BMD (g/cm ³)	T-Score	% Based on	BMD Change vs Previous
14.06.2007	37	0.970	-1.2	37.9%	-1.7%
05.05.2003	33	0.957	-1.1	3.9%	8.7%
21.06.2001	32	0.934	-1.3	3.7%	-1.7%
21.06.2000	32	0.971	-1.2	1.4%	-6.8%
07.05.1999	31	0.979	-1.0	2.0%	-6.7%
08.05.1998	30	0.977	-1.0	2.7%	-2.7%
22.05.1997	29	0.939	-1.9	4.9%	4.9%
25.10.1996	28	0.942	-1.1		

142 000211 06 07 1106 007 1106 50 1 00

ISTITUTO AUXOLOGICO ITALIANO IRCCS
Via Ariosto 13
20145 MILANO

Telephone: 02/91111 E-Mail: sonna@auxologico.it Fax: 02/91112429

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Scan Date: 14 June 2007 Ex: ANM0004
Scan Type: a Lumbar Spine
Analysis: 14 June 2007 07:32 Version: (2,3,3)
Lumbar Spine
Operator: PL
Model: Discovery A (SN 80333)
Comment:

DXA Results Summary: L1-L4

Scan Date	Age	BMD (g/cm ³)	T-Score	% Based on	BMD Change vs Previous
14.06.2007	37	0.894	-2.2	36.8%	7.8%
05.05.2003	33	0.844	-3.7	39.9%	-6.7%
23.03.2001	31	0.844	-3.7	37.9%	4.9%
23.03.2000	32	0.814	-3.9	3.7%	-3.8%
07.05.1999	31	0.822	-3.9	4.7%	1.8%
08.05.1998	30	0.814	-4.8	2.8%	-0.7%
22.05.1997	29	0.828	-3.8	2.8%	3.9%
25.10.1996	28	0.796	-4.1		

142 000211 06 07 1106 007 1106 50 1 00

VS PREV +7.8%

VS PREV -1.5%

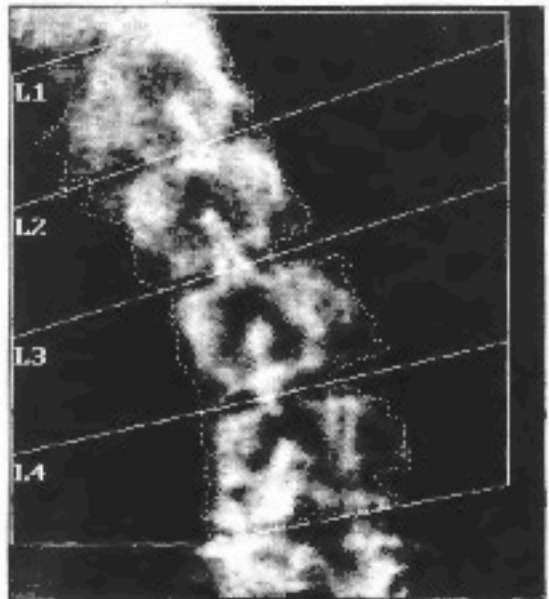
HOLOGIC

HOLOGIC



SCOLIOSI

k = 1.230 dB = 104.7(1.000)[1]



A00190002 Fri Aug 19 12:15 1988
 Name: Scoliosis #1
 Comment:
 I.D.: 1 Sex: F
 S.S.#: - - Ethnic: C
 ZIPCode: ALH Height: 162.56 cm
 Scan Code: Weight: 59.47 kg
 BirthDate: Age: 68
 Physician:

TOTAL BMD CV FOR L1 - L4 1.0%

C.F. 1.004 1.036 1.000

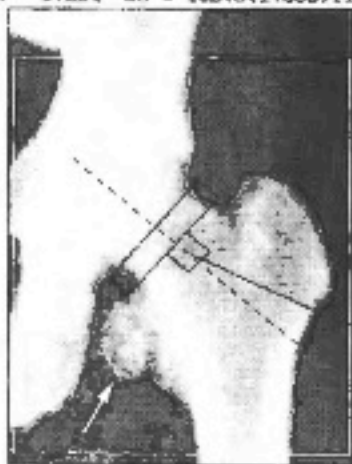
Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	13.97	11.22	0.803
L2	13.25	10.55	0.796
L3	14.05	10.32	0.734
L4	14.75	11.04	0.803
TOTAL	56.02	43.92	0.784





Deformazione ossea piccolo trocantere

k = 1.224 dB = 112.5(1.000)(11)

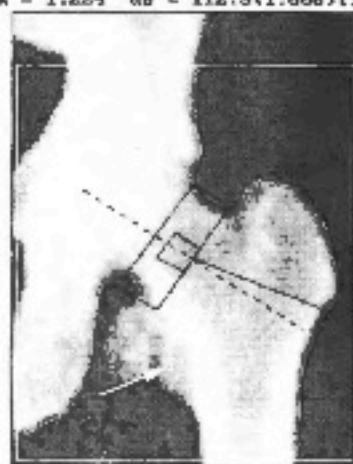


112 x 119

Hologic QDR 1000 (S/N 148)
Left Hip Version 4.63

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	3.36	2.69	0.801
Troch	13.41	8.63	0.659
Inter	38.76	28.98	0.748
TOTAL	47.53	40.43	0.851
Ward's	1.18	0.59	0.529
Midline (114,148)-(192, 72)			
Neck	-46 x 18 at [22, 131		
Troch	14 x 46 at [0, 0]		
Ward's	-11 x 11 at [5, 4]		

k = 1.224 dB = 112.3(1.000)(11)



112 x 139

Hologic QDR 1000 (S/N 148)
Left Hip Version 4.63

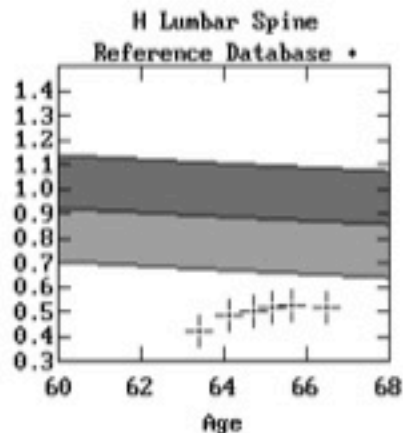
Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	5.28	4.31	0.816
Troch	13.82	8.68	0.658
Inter	24.54	24.55	1.001
TOTAL	42.84	37.46	0.874
Ward's	1.18	0.78	0.641
Midline (114,148)-(188, 98)			
Neck	-45 x 16 at [23, 141		
Troch	11 x 45 at [0, 0]		
Ward's	-11 x 11 at [5, 9]		



Q0401970D Tue 01.Apr.1997 10:24
 Name:
 Comment: 48 OVK BIL SI E
 I.D.: 94AX0180.000 Sex: F
 S.S.#: 028-03-1127 Ethnic: W
 ZIPCode: 039999 Height: 151.30 cm
 Scan Code: 05 Weight: 43.10 kg
 BirthDate: 05.Oct.30 Age: 66
 Physician: DH ARIOSTO 9

Date of Scan	Age	BMD(L2-L4)
02 Mar 94	63.4	0.418
23 Nov 94	64.1	0.478
28 Jun 95	64.7	0.495
15 Dec 95	65.2	0.511
29 May 96	65.6	0.522
01 Apr 97	66.5	0.516

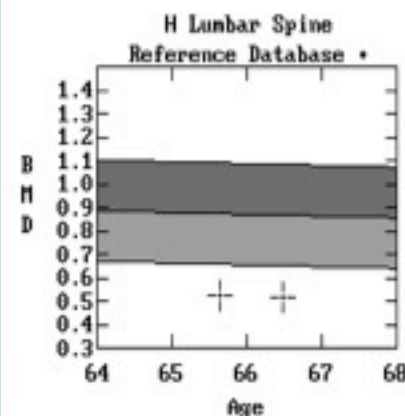
VS PRECEDENTE



L2-L4

Rate of Change/yr	±SD**	% Change /yr	±% SD
+0.0309	0.0033	+7.39	0.79

**1.96xSD = 95% Confidence Interval
 † Age and sex matched
 † = peak bone mass
 Z = age matched TK 25 Oct 91



Q0401970D Tue 01.Apr.1997 10:24
 Name:
 Comment: 48 OVK BIL SI E
 I.D.: 94AX0180.000 Sex: F
 S.S.#: 028-03-1127 Ethnic: W
 ZIPCode: 039999 Height: 151.30 cm
 Scan Code: 05 Weight: 43.10 kg
 BirthDate: 05.Oct.30 Age: 66
 Physician: DH ARIOSTO 9

Date of Scan	Age	BMD(L2-L4)
29 May 96	65.6	0.522
01 Apr 97	66.5	0.516

L2-L4

Rate of Change/yr	±SD**	% Change /yr	±% SD
-0.0076	0.0136	-1.46	2.60

**1.96xSD = 95% Confidence Interval
 † Age and sex matched
 † = peak bone mass
 Z = age matched TK 25 Oct 91



COMPARE DALL'INIZIO

Nome		Sesso:		Altezza: 158.0 cm
ID p.		Etnia:	AGE:97	Peso: 115.0 kg
Data:		Meno:		Età: 65

Medico di riferimento: ASL

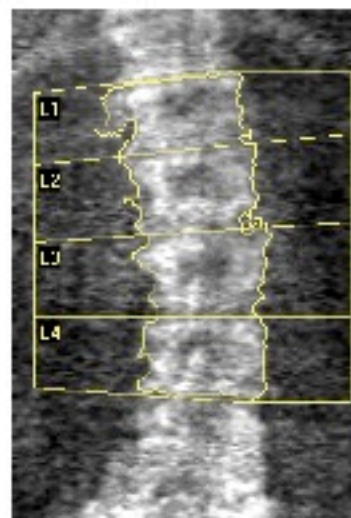


Immagine non per uso diagnostico
k = 1.119, dB = 39.8
116x 121

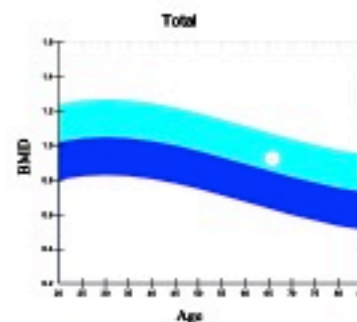
Informazioni sulla scansione:

Data scansione: 04 March 2014 ID: A0304140R
 Tipo di scansione: a Lombare
 Analisi: 04 March 2014 11:39 Versione 12.6.2.3
 Lombare
 Operator: AI
 Model: Discovery A (S/N 80533)
 Commento:

Riepilogo risultati DXA:

Regione	Area (cm ²)	BMC (g)	BMD (g/cm ³)	T - Punti	PR (%)	Z - Punti	AM (%)
L1	12.67	10.62	0.838	-0.8	91	0.8	112
L2	13.33	12.50	0.937	-0.8	91	1.0	113
L3	12.80	11.46	0.895	-1.7	83	0.2	102
L4	12.80	13.04	1.019	-0.9	91	1.1	113
Totale	51.60	47.61	0.923	-1.1	88	0.7	109

Totale BMD CV 1.0%, ACP = 1.029, BCP = 0.997, TH = 31.185



Curva di riferimento e punteggi corrispondenti a Bianca Ferrarini

Origine: Hologic

Commento del medico:

Nome: [REDACTED]	Sesso: Femmina	Altezza: 160,0 cm
ID paziente: 10AX0000084	Etnia: Bianco	Peso: 40,0 kg
Data di nascita: 07 July 1926	Menopause Age: 55	Età: 87

Medico di riferimento: VOLPATO

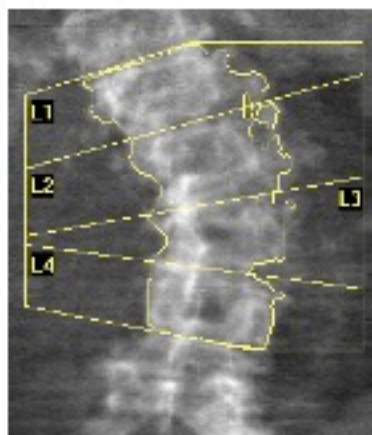


Immagine non per uso diagnostico
k = 1.152, OB = 45.9
110 x 106

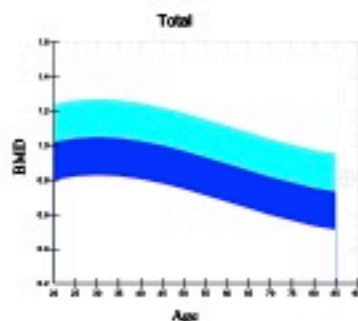
Informazioni sulla scansione:

Data scansione: 04 March 2014 ID: A0304140V
 Tipo di scansione: a Lombare
 Analisi: 04 March 2014 11:58 Versione 12.6.2.3
 Lombare
 Operator: AI
 Model: Discovery A (S/N 80533)
 Commento:

Riepilogo risultati DXA:

Regione	Area (cm ²)	BMC (g)	BMD (g/cm ³)	T - Punti	PR (%)	Z - Punti	AM (%)
L1	12.52	10.98	0.877	-0.4	95		
L2	13.34	10.10	0.757	-2.5	74		
L3	9.72	7.42	0.763	-2.9	70		
L4	10.37	8.73	0.841	-2.5	75		
Totale	45.96	37.22	0.810	-2.2	77		

Totale BMD CV 1.8%, ACP = 1.029, BCF = 0.997, TH = 8.314



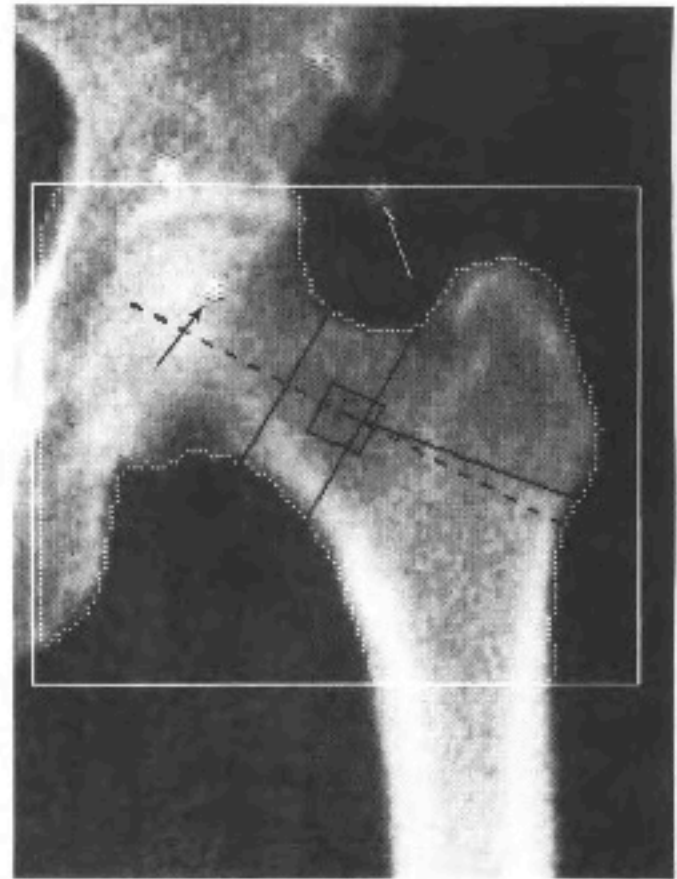
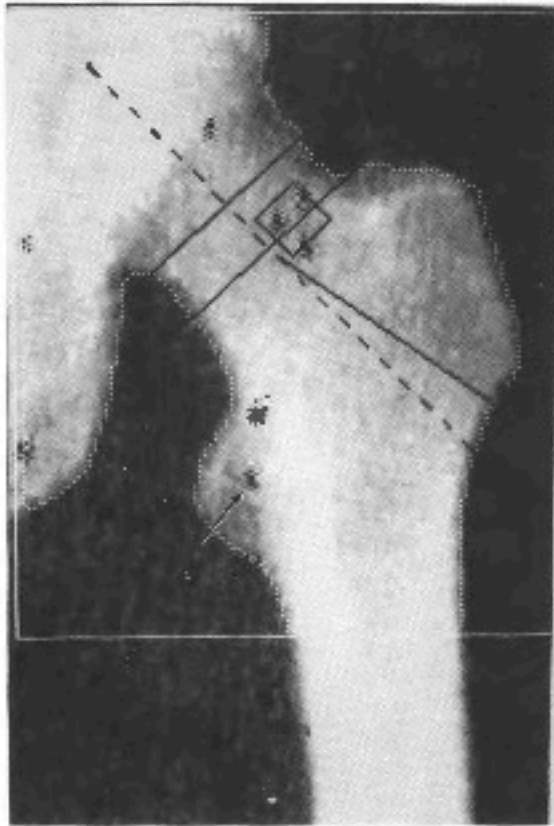
Curva di riferimento e punteggi corrispondenti a Bianco Femmina

Origine: Hologic

Commento del medico:

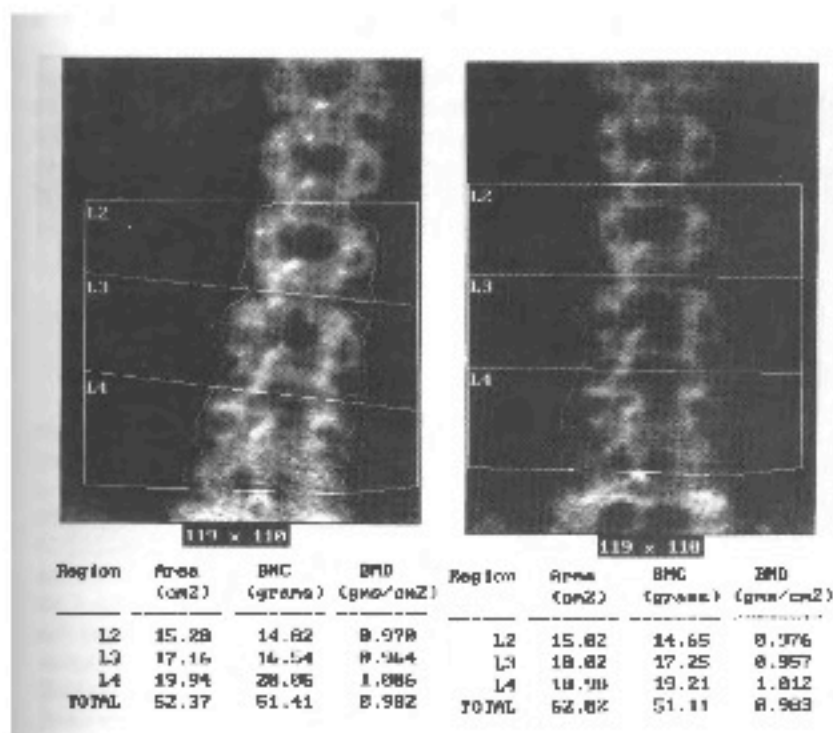


SCHEGGE DI PROIETTILE



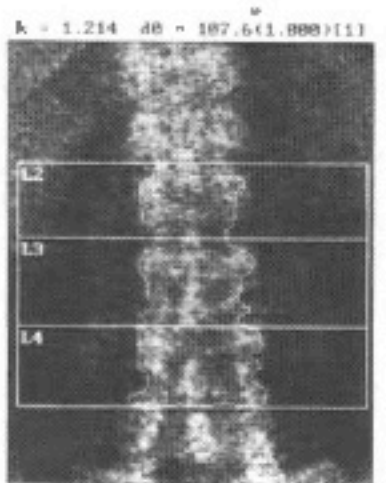
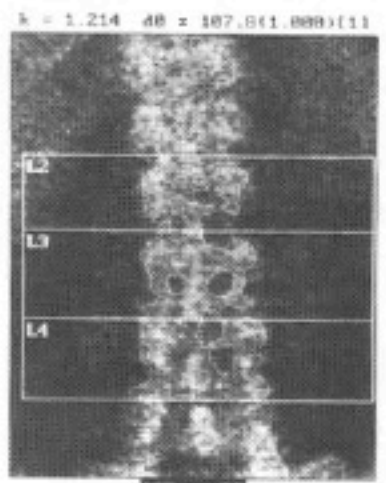
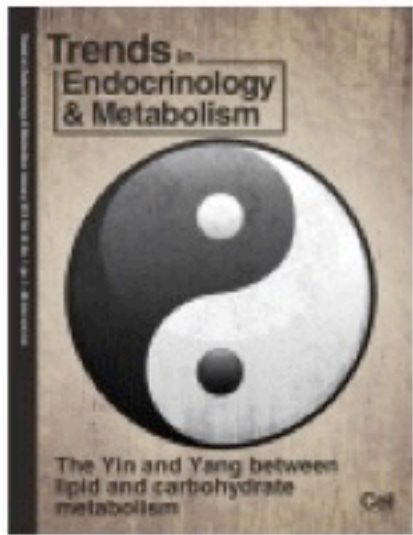


ERRATO POSIZIONAMENTO DEL PZ





LOW AND HIGH DENSITY



125 x 92
Hologic QDR 1000 (S/N 198)
Lumbar Spine Version 4.81

TOTAL BMD CV FOR L1 - L4 1.8x

C.F. 1.004 1.037 1.000

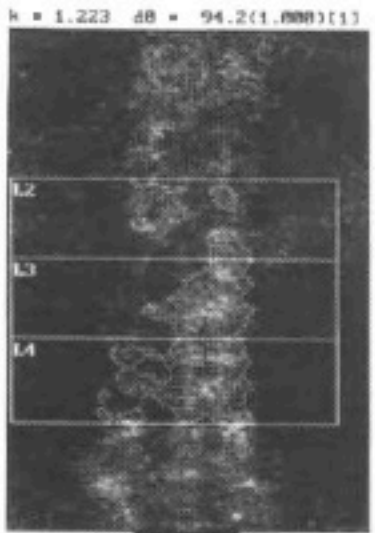
Region	Area (cm ²)	BMC (grams)	BMD (g/cm ²)
L2	6.14	2.45	0.399
L3	5.08	2.158	0.397
L4	10.05	4.05	0.406
TOTAL	25.99	12.68	0.425

125 x 92
Hologic QDR 1000 (S/N 198)
Lumbar Spine Version 4.81

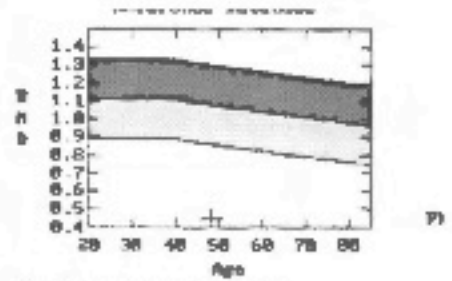
TOTAL BMD CV FOR L1 - L4 1.8x

C.F. 1.004 1.037 1.000

Region	Area (cm ²)	BMC (grams)	BMD (g/cm ²)
L2	6.11	2.402	0.347
L3	11.06	3.95	0.357
L4	12.21	5.31	0.435
TOTAL	31.79	12.08	0.385



116 x 93
Hologic QDR 1000 (S/N 882)
Lumbar Spine Version 4.20



Region	BMD	T(38.81)	Z
L2	0.350	-6.59 33%	-6.39 34%
L3	0.460	-5.77 42%	-5.46 44%
L4	0.467	-6.25 40%	-5.94 41%
L2-L4	0.442	-6.12 40%	-5.81 41%

n Age and sex matched
Reference Curve for Men
71 18/13/09

A

BMD 0.4-0.5 G/CM2

B



ISTITUTO AUXOLOGICO ITALIANO IRCCS
Via Ariosto 13
20145 MILANO

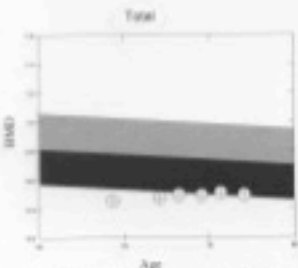
Telephone: 02/61911.1 E-Mail: boneunit@auxologico.it Fax: 02/61911.2429

Sex: Female Height: 145.8 cm
Ethnicity: White Weight: 54.0 kg
Menopause Age: 52 Age: 77

Referring Physician: DR. ARDOSTO 9



Scan Information:
Scan Date: 12 April 2005 ID: A0412050C
Scan Type: a Left Hip
Analysis: 12 April 2005 14:09 Version 12.1
Left Hip
Operator: DL
Model: Discovery A (SN 80533)
Comment:



Reference curve and scores matched to White Female
Source: Hologic

DXA Results Summary:

Scan Date	Age	BMD (g/cm ²)	T- Score	BMD Change vs Baseline	BMD Change vs Previous
12.04.2005	77	0.494	-4.0	7.8%*	-2.8%†
28.11.2005	75	0.509	-3.9	11.8%*	3.1%
07.10.2002	74	0.494	-4.0	7.7%*	-4.7%
01.06.2001	73	0.497	-4.0	8.4%*	3.9%
10.04.2000	72	0.478	-4.1	4.4%	4.4%
24.07.1997	69	0.478	-4.3		

Total BMD CV: 1.0%
* Denotes significant change at the 95% confidence level.
† Denotes dissimilar scan types or analysis methods.

HOLOGIC

ISTITUTO AUXOLOGICO ITALIANO IRCCS
Via Ariosto 13
20145 MILANO

Telephone: 02/61911.1 E-Mail: boneunit@auxologico.it Fax: 02/61911.2429

Sex: Female Height: 145.8 cm
Ethnicity: White Weight: 54.0 kg
Menopause Age: 52 Age: 77

Referring Physician: DR. ARDOSTO 9



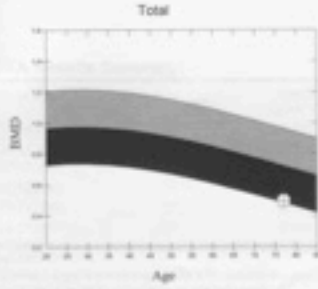
Scan Information:
Scan Date: 12 April 2005 ID: A0412050C
Scan Type: a Left Hip
Analysis: 12 April 2005 14:09 Version 12.1
Left Hip
Operator: DL
Model: Discovery A (SN 80533)
Comment:

k = 1.194, b = -0.021
SD = 0.111

DXA Results Summary:

Region	Area (cm ²)	BMC (g)	BMD (g/cm ³)	T- Score	FR (%)	Z- Score	AM (%)
Neck	4.98	2.29	0.460	-4.3	51	-1.6	74
Trunk	11.01	3.82	0.356	-4.1	49	-2.0	66
Inter	16.67	9.83	0.596	-3.9	52	-1.8	70
Total	32.66	16.14	0.494	-4.0	51	-1.9	68
Wards	1.11	0.25	0.220	-5.2	28	-1.7	55

Total BMD CV: 1.0%, AC1 = 1.636, BC1 = 1.800, SD = 1.282



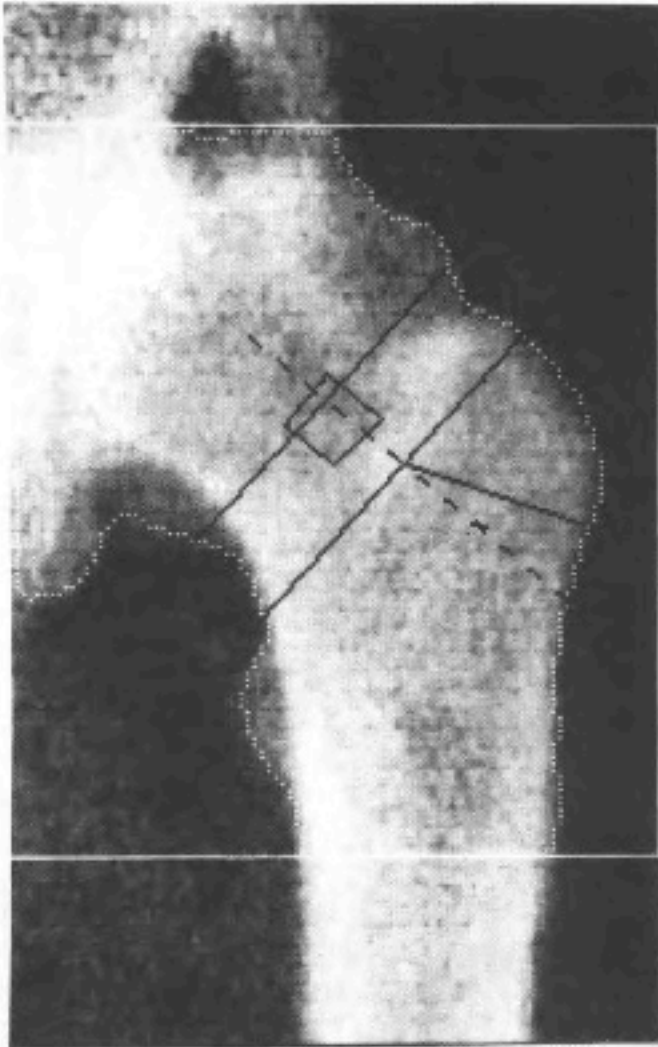
Reference curve and scores matched to White Female
Source: Hologic

Physician's Comment:

HOLOGIC

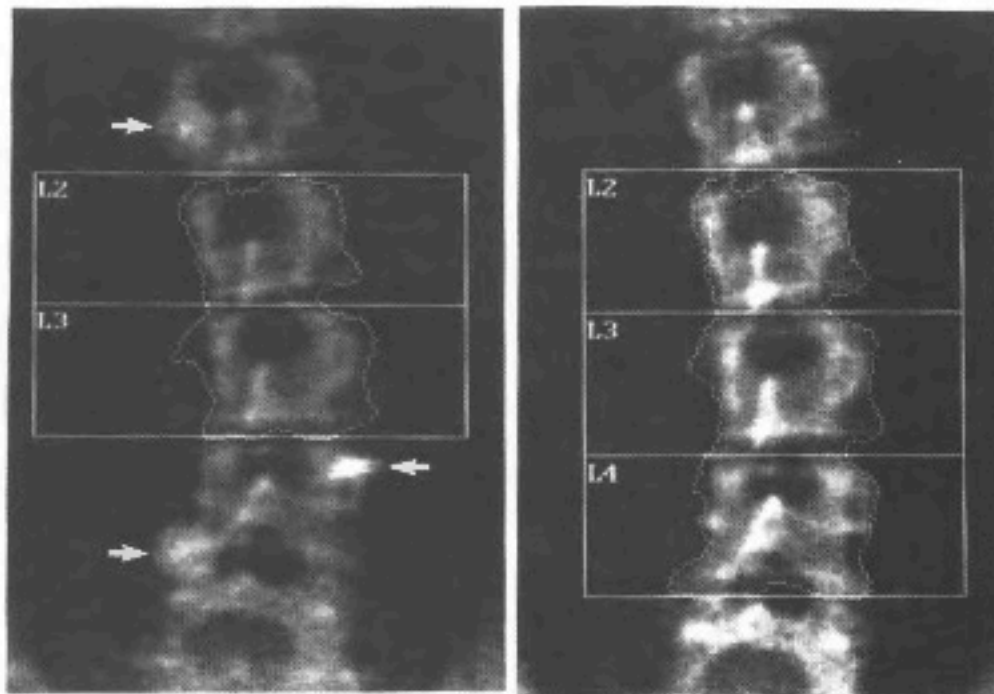


DEFORMITA' CONGENITA DELL'ANCA



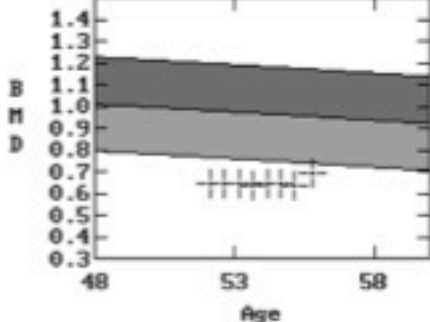


PRESENZA DI BOTTONI





H Lumbar Spine
Reference Database *



Q09309707 Tue 30.Sep.1997 10:39
 Name:
 Comment: 42 OUX
 I.D.: 94AX01040000 Sex: F
 S.S.#: 028-00-7024 Ethnic: W
 ZIPCode: 001106 Height: 146.10 cm
 Scan Code: 08 Weight: 46.10 kg
 BirthDate: 28.Nov.41 Age: 55
 Physician: DH ARIOSTO 9

Date of Scan	Age	BMD(L2-L4)
09 Feb 94	52.2	0.637
21 Jul 94	52.6	0.638
08 Feb 95	53.2	0.637
26 Jul 95	53.7	0.635
07 Feb 96	54.2	0.640
29 Jul 96	54.7	0.636
05 Feb 97	55.2	0.629
30 Sep 97	55.8	0.686

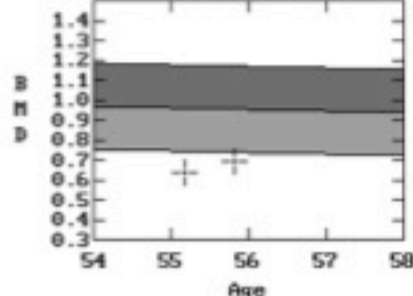
L2-L4

Rate of Change/yr ±SD**	% Change /yr ±SD
+0.0074 0.0024	+1.16 0.38

**1.96xSD = 95% Confidence Interval
 * Age and sex matched
 T = peak bone mass
 Z = age matched TK 25 Oct 91



H Lumbar Spine
Reference Database *



Q09309707 Tue 30.Sep.1997 10:39
 Name:
 Comment: 42 OUX
 I.D.: 94AX01040000 Sex: F
 S.S.#: 028-00-7024 Ethnic: W
 ZIPCode: 001106 Height: 146.10 cm
 Scan Code: 08 Weight: 46.10 kg
 BirthDate: 28.Nov.41 Age: 55
 Physician: DH ARIOSTO 9

Date of Scan	Age	BMD(L2-L4)
05 Feb 97	55.2	0.629
30 Sep 97	55.8	0.686

L2-L4

Rate of Change/yr ±SD**	% Change /yr ±SD
+0.0871 0.0176	+13.85 2.79

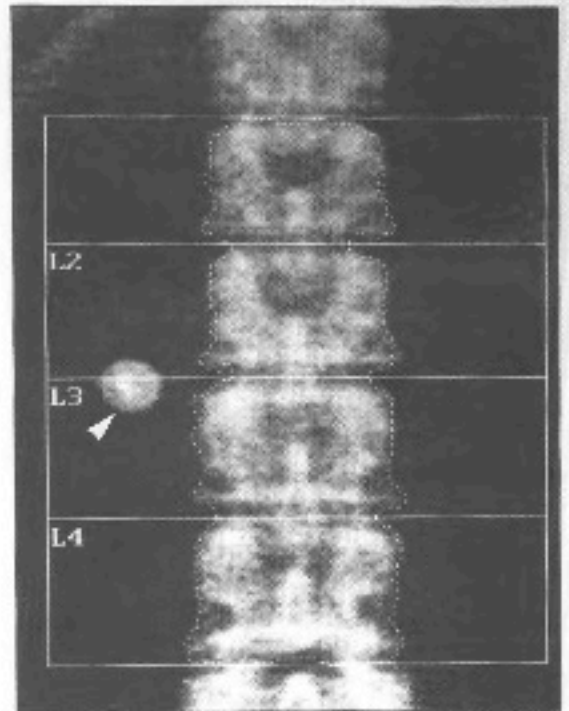
**1.96xSD = 95% Confidence Interval
 * Age and sex matched
 T = peak bone mass
 Z = age matched TK 25 Oct 91





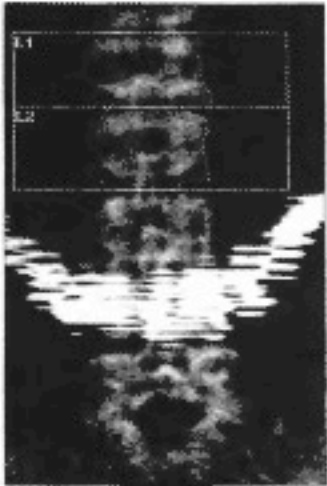
PASTIGLIA DI CALCIO ASSUNTA LA MATTINA STESSA

k = 1.229 dB = 113.6(1.000)(11)

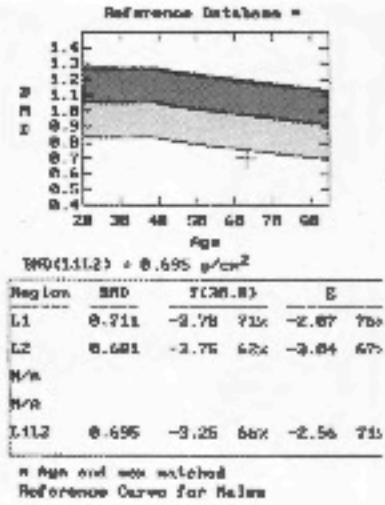


120 x 139

Hologic QDR 1000 (S/N 163)



L12 = 69



PASTO BARITATO



Heligic QDR 1000 (S/N 150)
Lumbar Spine Version 4.01

Region	Area (cm ²)	BMC (g/cm ²)	BMD (g/cm ²)
L4	14.47	13.79	0.963



Heligic QDR 1000 (S/N 150)
Lumbar Spine Version 4.01

Region	Area (cm ²)	BMC (g/cm ²)	BMD (g/cm ²)
L4	13.89	12.43	0.914

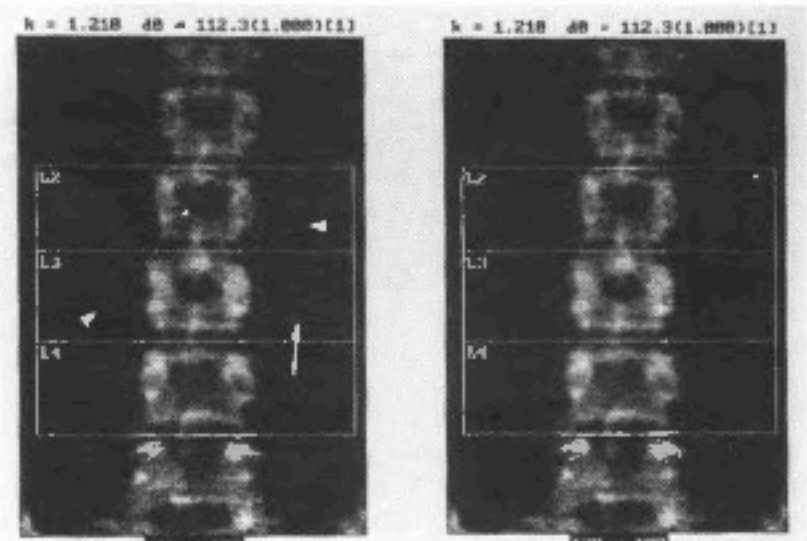


Heligic QDR 1000 (S/N 150)
Lumbar Spine Version 4.01

Region	Area (cm ²)	BMC (g/cm ²)	BMD (g/cm ²)
L1	9.27	7.38	0.797
L4	14.47	12.93	0.919
TOTAL	23.34	20.23	0.867



PROCESSI TRASVERSI

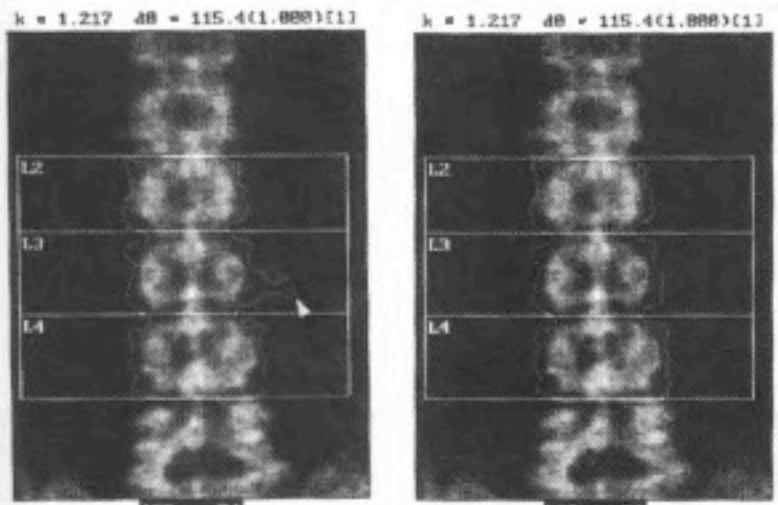


Region	Area (cm2)	BMC (grams)	BMD (gms/cm2)
L2	12.93	12.13	0.938
L3	16.38	16.71	1.046
L4	17.89	17.85	1.044
TOTAL	46.28	46.69	1.015

Region	Area (cm2)	BMC (grams)	BMD (gms/cm2)
L2	12.76	12.87	0.946
L3	15.61	16.71	1.071
L4	17.89	17.85	1.044
TOTAL	46.26	46.63	1.026

Small areas of "bone" outside the spine. Removal results in small changes in BMD and area.

B



Moilogic QDR 1000 (S/N 190)
Lumbar Spine Version 4.81

TOTAL BMD CV FOR L1 - L4 1.6%

C.F. 1.894 1.637 1.688

Region	Area (cm2)	BMC (grams)	BMD (gms/cm2)
L2	11.28	10.34	0.923
L3	14.82	13.18	0.935
L4	14.38	14.31	1.081
TOTAL	39.53	37.76	0.955

Moilogic QDR 1000 (S/N 190)
Lumbar Spine Version 4.81

TOTAL BMD CV FOR L1 - L4 1.8%

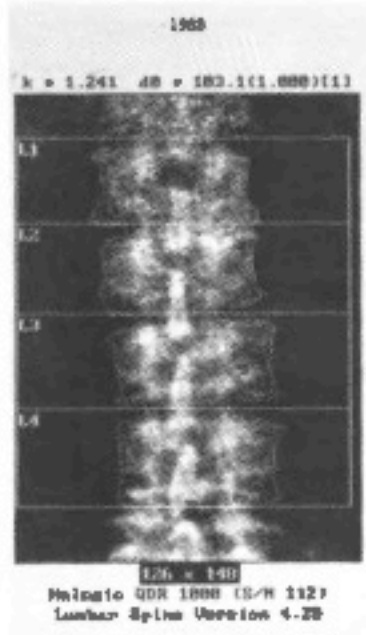
C.F. 1.894 1.637 1.688

Region	Area (cm2)	BMC (grams)	BMD (gms/cm2)
L2	11.28	10.34	0.923
L3	17.67	12.75	0.979
L4	14.38	14.31	1.081
TOTAL	28.67	37.44	0.971

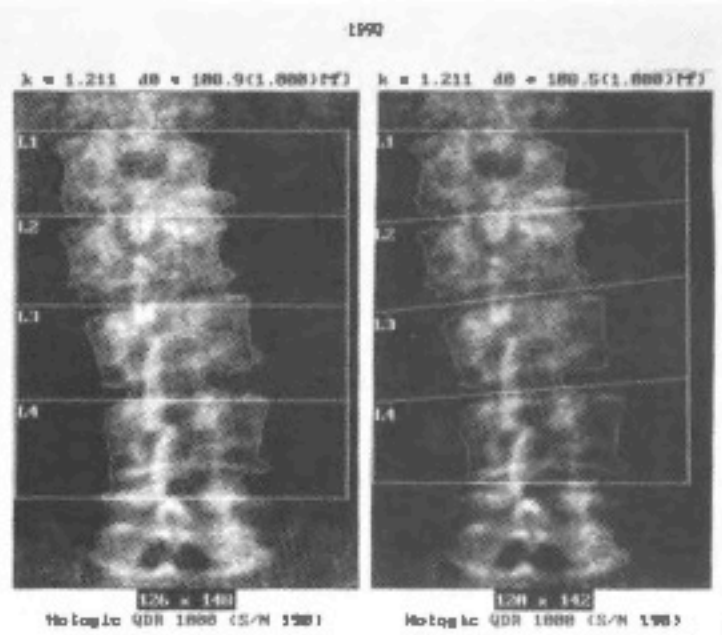
C



SCOLIOSI: PROCESSI SPINOSI NON CENTRATI



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	18.83	18.94	0.658
L2	18.67	14.37	0.770
L3	19.52	14.38	0.734
L4	20.91	16.52	0.790
TOTAL	78.93	64.16	0.740



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)	Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	17.29	12.59	0.728	L1	17.48	12.66	0.728
L2	17.84	13.46	0.754	L2	19.61	14.46	0.738
L3	19.36	13.96	0.719	L3	19.32	13.88	0.714
L4	19.74	13.97	0.708	L4	21.32	16.49	0.772
TOTAL	74.22	63.97	0.722	TOTAL	77.64	66.41	0.727



EFETTO DEL GRASSO VISCERALE



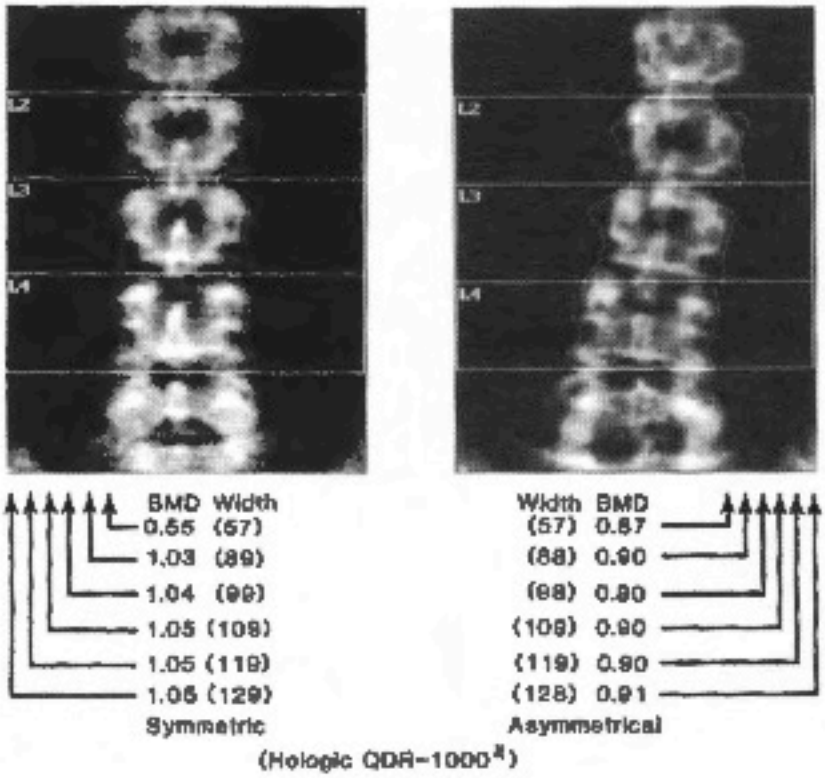
Table 2.1 The table shows the mean and primary standard deviation (SD) of BMD.

Age	Mean BMD (g/cm ³)	SD (g/cm ³)	CV
Male (n=100)	1.02	0.08	7.8%
Female (n=100)	0.98	0.07	7.1%
Total (n=200)	1.00	0.075	7.5%

Vertebrae	L1	L2	L3	L4	L5
Mean (g/cm ³)	1.05	1.03	1.01	0.99	0.97
SD (g/cm ³)	0.08	0.07	0.06	0.05	0.04
CV	7.6%	6.8%	6.0%	5.1%	4.1%

CV = Coefficient of Variation = SD / Mean


SPINE BMD Changing width of ROI





ISTITUTO RADIOLOGICO ITALIANO IRCCS

№ = 1.212.48 = 111.211.88881 7.517



Q10000033 Num 80.Oct.2000 15:30
 Name: [REDACTED]
 Comment: RP 58
 I.S.B: 000000000333 Sex: F
 S.S.B: 803-00-0000 Ethnic: M
 ZIPCode: Height: 154.00 cm
 Scan Code: 85 Weight: 71.50 kg
 BirthDate: 23.Aug.29 Age: 61
 Physician:
 Image not for diagnostic use

TOTAL BMD OF FOR L1 - L4 3.81

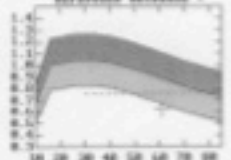
C.F. 0.972 0.967 1.000

Region	Est.Area (cm ²)	Est.BMC (grams)	BMD (gms/cm ³)
L1	9.38	6.80	0.548
L2	10.77	6.49	0.603
L3	12.76	6.80	0.543
L4	13.05	7.00	0.539
TOTAL	45.07	26.70	0.613

HOLOGIC

ISTITUTO RADIOLOGICO ITALIANO IRCCS

A Lumbar Spine Reference Database



Q10000033 Num 80.Oct.2000 15:30
 Name: [REDACTED]
 Comment: RP 58
 I.S.B: 000000000333 Sex: F
 S.S.B: 803-00-0000 Ethnic: M
 ZIPCode: Height: 154.00 cm
 Scan Code: 85 Weight: 71.50 kg
 BirthDate: 23.Aug.29 Age: 61
 Physician:

BMD(L1-L4) = 0.613 g/cm³

Region	BMD	T100-01	Z
L1	0.548	-3.58	64%
L2	0.603	-3.07	55%
L3	0.543	-4.81	55%
L4	0.539	-4.31	58%
L1-L4	0.613	-3.05	55%

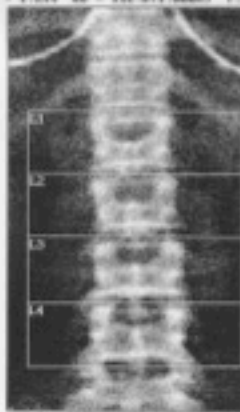
* Age and sex matched
 T = peak BMD matched
 Z = age matched

L1-L4 -3.09

VERTEBRE
MAL
NUMERATE

ISTITUTO RADIOLOGICO ITALIANO IRCCS

№ = 1.212.48 = 111.211.88881 7.517



Q10000033 Num 80.Oct.2000 15:30
 Name: [REDACTED]
 Comment: RP 58
 I.S.B: 000000000333 Sex: F
 S.S.B: 803-00-0000 Ethnic: M
 ZIPCode: Height: 154.00 cm
 Scan Code: 85 Weight: 71.50 kg
 BirthDate: 23.Aug.29 Age: 61
 Physician:
 Image not for diagnostic use

TOTAL BMD OF FOR L1 - L4 3.81

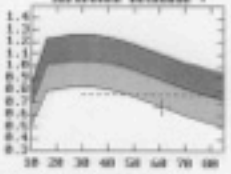
C.F. 0.972 0.967 1.000

Region	Est.Area (cm ²)	Est.BMC (grams)	BMD (gms/cm ³)
L1	9.38	6.49	0.594
L2	12.73	8.23	0.646
L3	14.68	9.35	0.637
L4	15.84	11.47	0.726
TOTAL	54.28	35.74	0.655

HOLOGIC

ISTITUTO RADIOLOGICO ITALIANO IRCCS

A Lumbar Spine Reference Database



Q10000033 Num 80.Oct.2000 15:30
 Name: [REDACTED]
 Comment: RP 58
 I.S.B: 000000000333 Sex: F
 S.S.B: 803-00-0000 Ethnic: M
 ZIPCode: Height: 154.00 cm
 Scan Code: 85 Weight: 71.50 kg
 BirthDate: 23.Aug.29 Age: 61
 Physician:

BMD(L1-L4) = 0.655 g/cm³

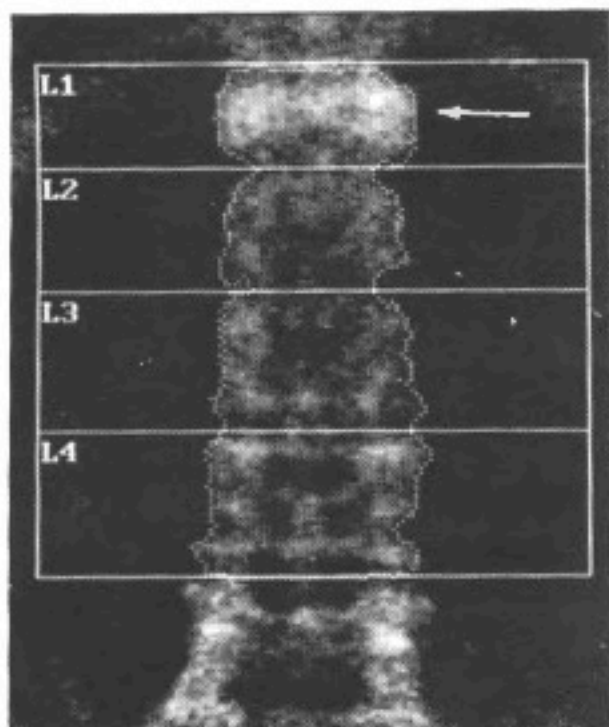
Region	BMD	T100-01	Z
L1	0.594	-3.81	64%
L2	0.646	-3.47	63%
L3	0.637	-4.86	55%
L4	0.726	-3.45	66%
L1-L4	0.655	-3.52	63%

* Age and sex matched
 T = peak BMD matched
 Z = age matched

L1-L4 -3.52



RECENTE FRATTURA DA COMPRESSIONE



Comment: SCREENING
I.D.: Sex: F
S.S.#: - - Ethnic: C
ZIPCode: Height: 135.00 cm
Scan Code: Weight: 48.00 kg
BirthDate: Age: 61
Physician:

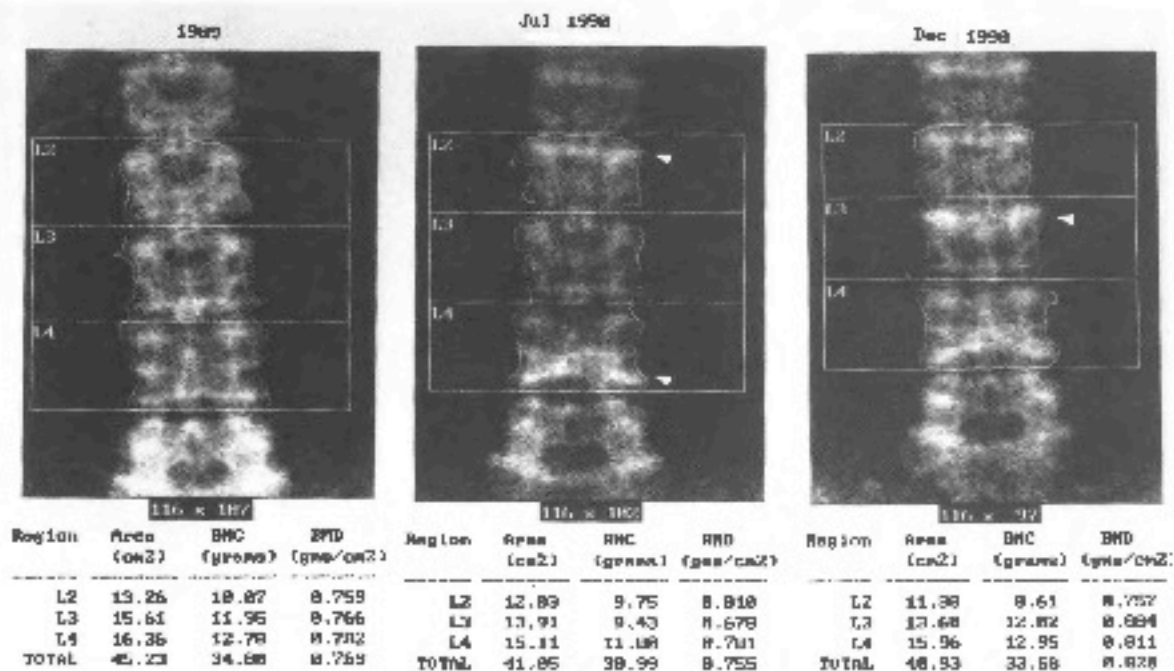
TOTAL BMD CU FOR L1 - L4 1.0%

C.F. 0.996 1.031 1.000

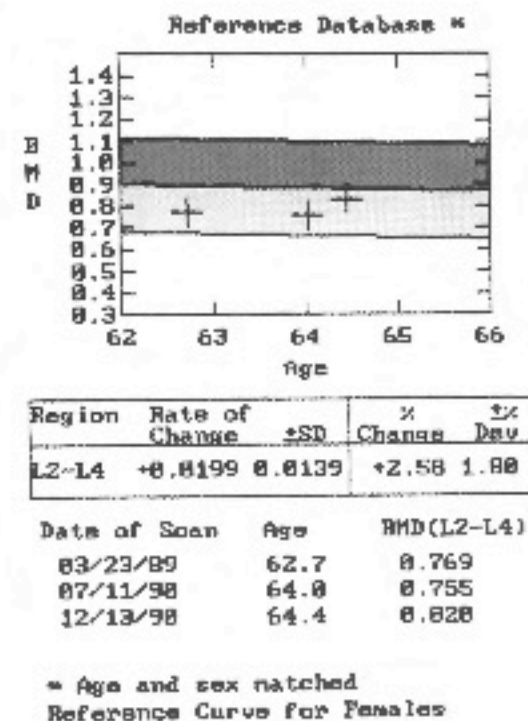
Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	8.81	5.85	0.665
L2	9.43	3.74	0.396
L3	12.43	5.41	0.435
L4	14.50	7.63	0.526
TOTAL	45.17	22.63	0.501



COMPARRA DI NUOVI CROLLI VERTEBRALI IN PZ IN TERAPIA STEROIDEA



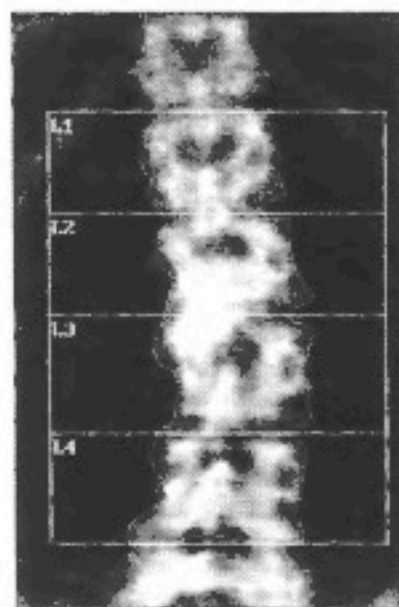
A



B



OSTEOARTHRITIS



112 x 145
Hologic QDR 1000 (S/N 112)

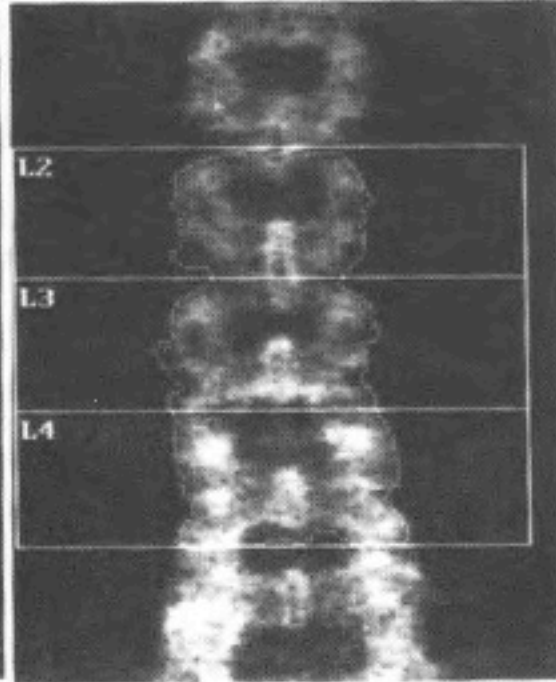
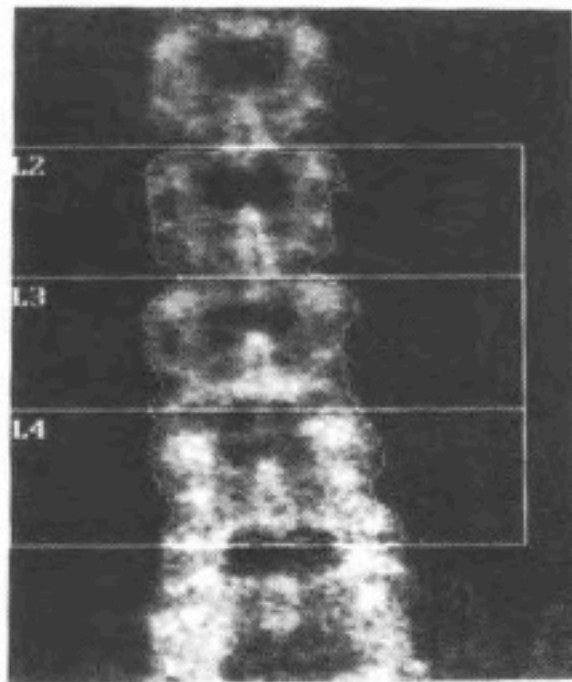


112 x 145
Hologic QDR 1000 (S/N 112)

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	13.43	12.37	0.921
L2	14.14	16.26	1.158
L3	17.36	17.87	1.030
L4	17.77	17.24	0.969
TOTAL	62.71	63.74	1.016

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	13.43	12.37	0.921
L4	17.79	17.24	0.969
TOTAL	31.22	29.61	0.948

ESAME CORRETTO 2 ANNI DOPO

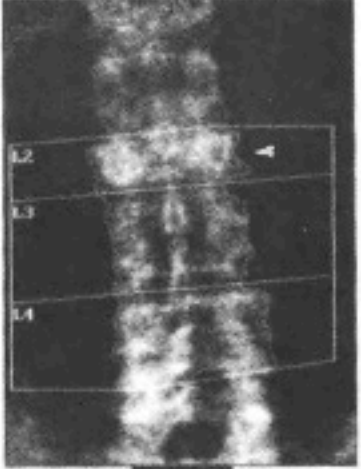


C.F. 1.004 1.050 1.000				C.F. 1.004 1.050 1.000			
Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)	Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L2	12.18	6.70	0.551	L2	12.27	6.72	0.548
L3	13.64	9.85	0.663	L3	13.72	8.81	0.642
L4	15.48	11.46	0.740	L4	16.39	13.27	0.810
TOTAL	41.29	27.21	0.659	TOTAL	42.38	28.81	0.680



FRATTURE VERTEBRALI MULTIPLE

k = 1.238 dB = 99.5(1.000)[1]



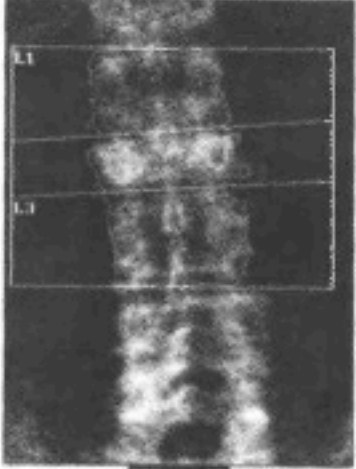
128 x 104

k = 1.232 dB = 98.3(1.000)[1]



128 x 96

k = 1.232 dB = 98.3(1.000)[1]



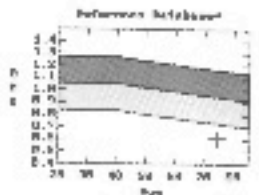
128 x 96

Region	Area (cm2)	BMC (grams)	BMD (gms/cm2)
L2	11.31	18.37	0.919
L3	18.71	11.18	0.592
L4	18.96	14.75	0.778
TOTAL	48.98	36.23	0.748

Region	Area (cm2)	BMC (grams)	BMD (gms/cm2)
L1	15.34	9.48	0.613
L2	11.56	18.35	0.895
L3	17.82	18.67	0.699
TOTAL	44.73	36.51	0.688

Region	Area (cm2)	BMC (grams)	BMD (gms/cm2)
L1	15.34	9.48	0.613
L2	17.81	18.67	0.599
TOTAL	33.15	28.67	0.685

A



DB-11... $\rho = 0.625 \text{ g/cm}^2$

0: 2.14 FC below standardized normal
 1: 1.12 SP below normal
 2: 0.10 SP below normal
 3: 0.00 SP below normal
 4: 0.00 SP below normal

* Age and Sex Related

Due Feb 6 12:38 1998

Name: [redacted]
 Consent: [redacted]
 I.D.: [redacted] Rev: 3
 P.S.S.: [redacted] Patient: 4
 ZIP Code: 4108 Hospital: 246.42 m
 Date Code: 078 Weight: 65.50 kg
 BirthDate: [redacted] Age: 59
 Height: [redacted] Age: 59

Region(s) Consent:

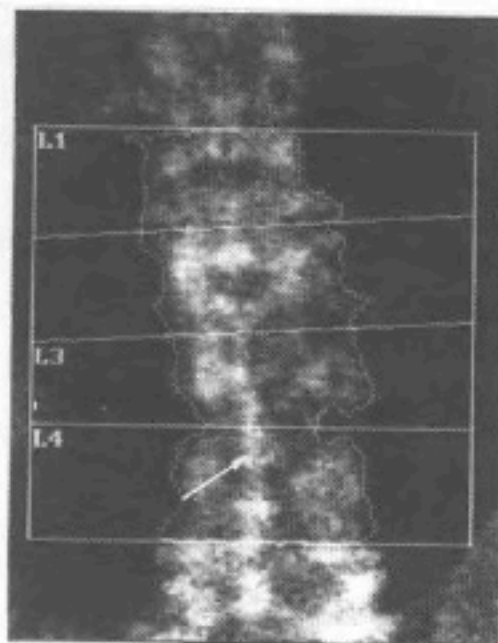
Demographic: (L1-L4) Dist Marginal
 Unilateral
 X Score: Marginal Bone Loss
 BoneLine
 (Peak High Compression)
 T Score: In Osteoporosis - Borderline
 (Osteoporosis)
 Other: Scoliosis (Compression Fr)
 Factors: Osteoporosis (L1-L4)
 LateralView Other

K

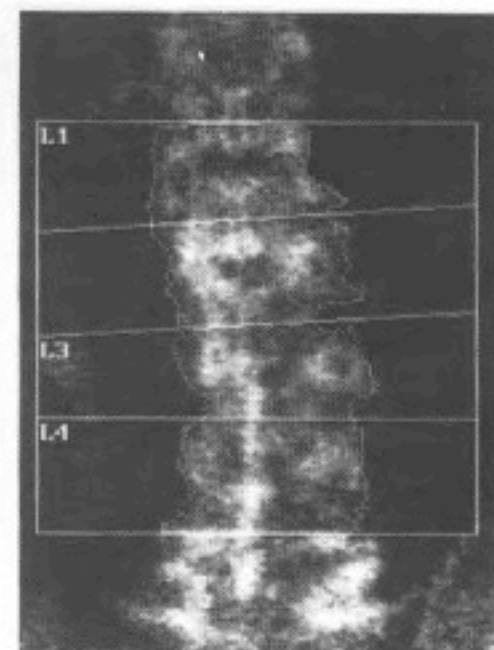


ROTAZIONE SULL'ASSE LONGITUDINALE PER SCOLIOSI

(PROCESSI SPINOSI IN POSIZIONE ASIMMETRICA)



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	11.86	8.81	0.743
L3	11.63	8.17	0.702
L4	15.33	12.93	0.844
TOTAL	38.83	29.91	0.778



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	11.47	8.14	0.710
L3	11.42	8.20	0.726
L4	14.81	10.76	0.727
TOTAL	37.71	27.19	0.721




OSTEOARTROSI

ISTITUTO AUXOLOGICO ITALIANO IRCCS
Via Arlecino 13
20145 MILANO

Telefono: 02/59111 E-Mail: bonawill@auxologico.it Fax: 02/591269

N. [REDACTED]	Sex: Female	Height: 167 cm
P. [REDACTED]	Diagnosis: OA	Weight: 63 kg
	Measurement type: 11	Age: 77

Referring Physician: A.T.



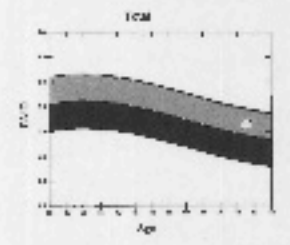
L1
L2
L3
L4

Scan Information:

Scan Date: 19 February 2015 ID: A0161001
 Scan Type: Anterior Spine
 Analysis: 19 February 2015 08:51:14 (12.1 sec)
 Spine
 Operator: AJ
 Model: Elbowing A (50 BMD)
 Contrast:

BKA Results Summary:

Region	Area (cm²)	BMC (g/cm²)	BMD (g/cm³)	T-score	Z-score	T-Z diff	AD (mg)
L1	14.22	1.73	1.36	0.2	1.0	0.8	127
L2	14.14	1.74	1.46	0.1	0.7	0.6	149
L3	14.19	1.36	0.70	-2.0	-1.1	-0.9	90
L4	13.73	1.7	1.34	1.6	0.8	0.8	81
Total	56.28	1.64	0.97	-1.7	0.8	0.9	447



T-score

Age

Physician's Comment:

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ISTITUTO AUXOLOGICO ITALIANO IRCCS
Via Arlecino 13
20145 MILANO

Telefono: 02/59111 Fax: 02/591269 E-Mail: bonawill@auxologico.it

N. [REDACTED]	Sex: Female	Height: 167 cm
P. [REDACTED]	Diagnosis: OA	Weight: 63 kg
	Measurement type: 11	Age: 77

Referring Physician: A.T.



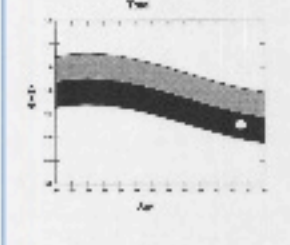
L1
L2
L3
L4

Scan Information:

Scan Date: 19 February 2015 ID: A0161001
 Scan Type: Anterior Spine
 Analysis: 19 February 2015 08:51:14 (12.1 sec)
 Spine
 Operator: AJ
 Model: Elbowing A (50 BMD)
 Contrast:

BKA Results Summary:

Region	Area (cm²)	BMC (g/cm²)	BMD (g/cm³)	T-score	Z-score	T-Z diff	AD (mg)
L1	14.22	1.73	1.36	0.2	1.0	0.8	127
L2	14.14	1.74	1.46	0.1	0.7	0.6	149
L3	14.19	1.36	0.70	-2.0	-1.1	-0.9	90
L4	13.73	1.7	1.34	1.6	0.8	0.8	81
Total	56.28	1.64	0.97	-1.7	0.8	0.9	447



T-score

Age

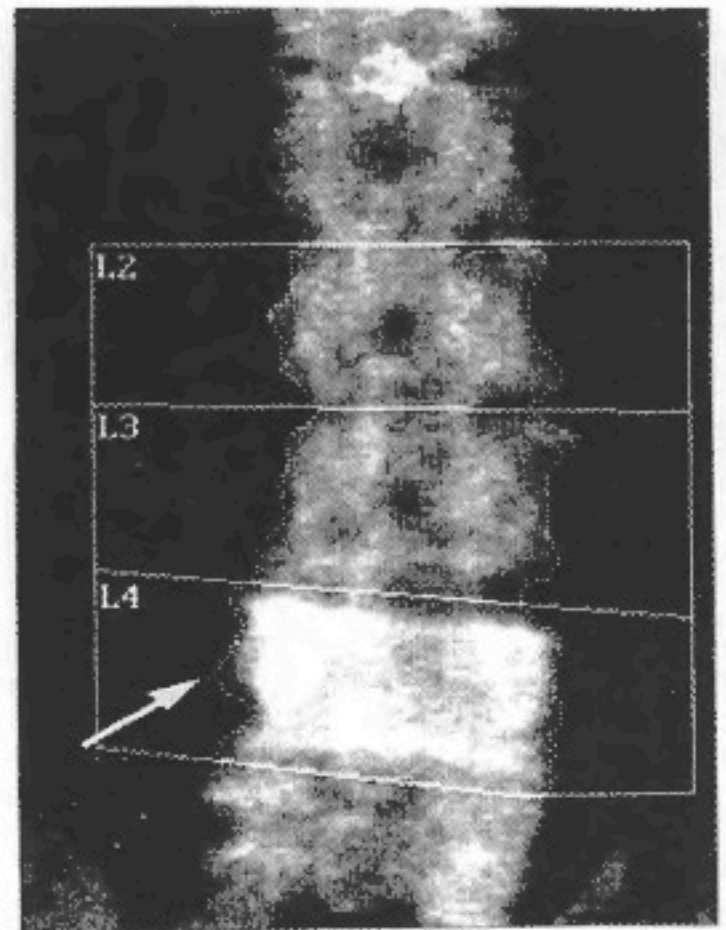
Physician's Comment:

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HOLOGIC®



MALATTIA DI PAGET



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L2	14.31	12.48	0.873
L3	17.24	15.66	0.908
L4	20.21	32.58	1.608
TOTAL	51.76	60.64	1.171



MALPOSIZIONAMENTO DEL FEMORE

* 1.254 d0 = 116.5(1.000)[]

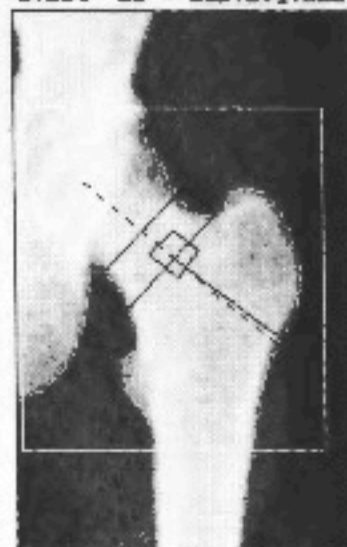


06 x 102

Hologic QDR 1000 (S/N 132)
Left Hip Version 4.03

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	3.94	3.24	0.822
Troch	8.94	5.58	0.615
Inter	16.21	15.88	0.988
TOTAL	29.09	24.62	0.846
Ward's	1.16	0.83	0.714
Midline (88,118)-(144, 68)			
Neck	-38 x 13 at [18, 131		
Troch	4 x 36 at [8, 81		
Ward's	-11 x 11 at [13, -71		

* 1.254 d0 = 116.5(1.000)[]



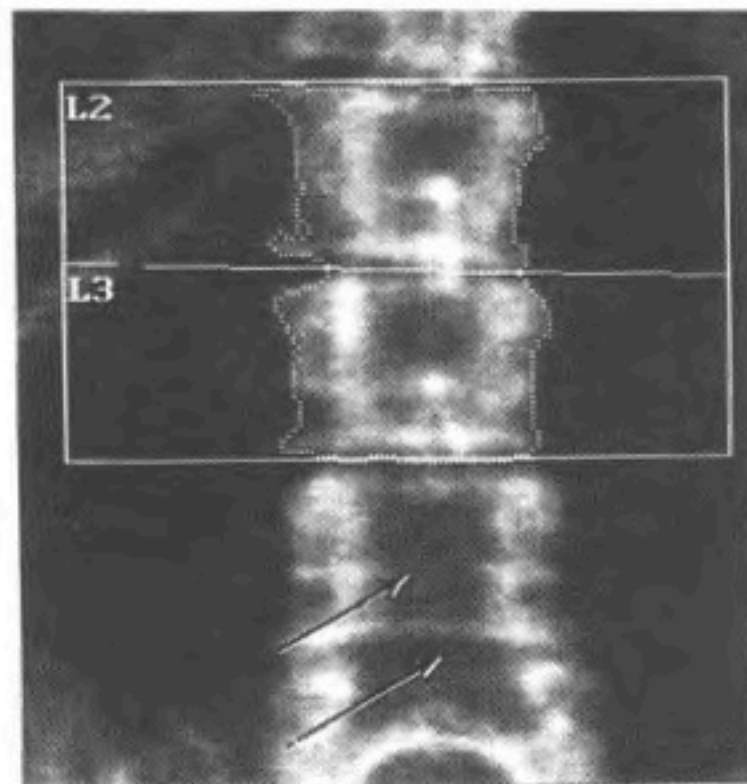
06 x 102

Hologic QDR 1000 (S/N 132)
Left Hip Version 4.03

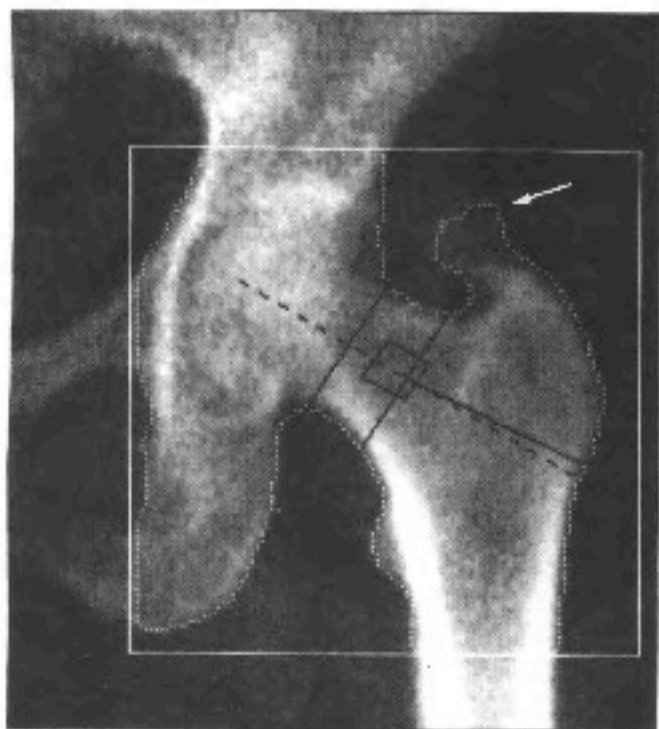
Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	3.94	3.24	0.822
Troch	8.94	5.58	0.615
Inter	16.21	15.88	0.988
TOTAL	29.09	24.62	0.846
Ward's	1.05	0.77	0.735
Midline (88,118)-(144, 68)			
Neck	-38 x 13 at [18, 131		
Troch	4 x 36 at [8, 81		
Ward's	-11 x 11 at [7, 71		



LAMINECTOMIA



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L2	13.37	9.32	0.697
L3	13.98	10.37	0.746
TOTAL	27.26	19.70	0.722



107 x 113

Hologic QDR 1000 (S/N 190)

Left Hip Version 4.26

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	4.67	3.19	0.683
Troch	11.61	7.82	0.684
Inter	20.84	19.32	0.927
TOTAL	37.13	29.52	0.795

CRESCITA OSSEA AL GRANDE TROCANTERE



ISTITUTO RUMOLOGICO ITALIANO IRCCS

k = 1.221 AB = 121.918 9980 5.026



07-Nov-2000 09:17 106 x 107
Hologic QDR-2000 (S/N 2338)
Anter Left Hip Pelvis 04.76x1

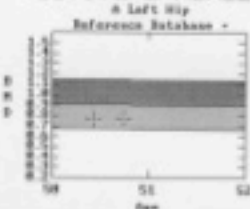
Q1300007 The 07-Nov-2000 00:24
Name: [REDACTED]
Comment: [REDACTED]
I.S.: 00000002208 Sex: F
I.S.B.: 823-01-1324 Ethnic: M
ZIPCode: Height: 168.00 cm
Scan Code: 82 Weight: 50.00 kg
BirthDate: 12-Feb-58 Age: 58
Physician: 0000
Image not for diagnostic use

1056, 989 CV 1.8x
C.F. 0.972 0.967 1.000

Region	Est.Area (cm ²)	Est.BMC (g/cm ³)	BMD (g/cm ³)
Neck	4.27	3.36	0.778
Trunk	18.63	6.18	0.763
Inter	10.46	36.17	0.876
TOTAL	33.36	25.63	0.761
Men's	1.87	0.58	0.543
Women	112,180(-126, 58)		
Neck	-9 x 35 at 1 26, 183		
Trunk	14 x 43 at 1 8, 83		
Men's	-11 x 33 at 1 8, 43		



ISTITUTO RUMOLOGICO ITALIANO IRCCS



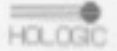
Q1300007 The 07-Nov-2000 00:24
Name: F21082 Ida
Comment: 45 RF F10 S1 E
I.S.: 00000002208 Sex: F
I.S.B.: 823-01-1324 Ethnic: M
ZIPCode: Height: 168.00 cm
Scan Code: 82 Weight: 50.00 kg
BirthDate: 12-Feb-58 Age: 58
Physician: 0000

Date	Age	BMD	BMD	BMD	BMD
22 Jul 88	58.4	0.719	0.567	0.853	0.752
07 Nov 88	58.7	0.778	0.563	0.876	0.761

Region	Rate of Change/yr (SD)	% Change/yr (SD)
Neck	+0.1707 0.0488	+23.35 6.48
Trunk	-0.0139 0.0097	-2.44 5.23
Inter	+0.0754 0.0423	+8.04 4.76
TOTAL	+0.2322 0.0203	+4.28 2.89
Men's	+0.1175 0.0196	+10.34 21.85

***NeckB = 95% Conf Interval
* Age and sex matched
† = peak BMD matched

16X 25 Oct 91



NECK +23.4%
TOT +4.28%

ISTITUTO RUMOLOGICO ITALIANO IRCCS

Q1300007 The 07-Nov-2000 00:24
Name: [REDACTED]
Comment: 45 RF F10 S1 E
I.S.: 00000002208 Sex: F
I.S.B.: 823-01-1324 Ethnic: M
ZIPCode: Height: 168.00 cm
Scan Code: 82 Weight: 50.00 kg
BirthDate: 12-Feb-58 Age: 58
Physician: 0000
Image not for diagnostic use

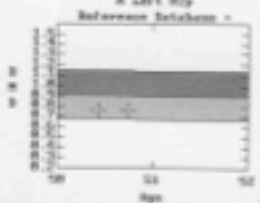
1056, 989 CV 1.8x
C.F. 0.972 0.967 1.000

Region	Est.Area (cm ²)	Est.BMC (g/cm ³)	BMD (g/cm ³)
Neck	4.27	3.37	0.778
Trunk	9.83	5.48	0.557
Inter	17.67	35.37	0.878
TOTAL	32.22	24.22	0.752
Men's	1.86	0.57	0.534
Women	112,180(-109, 64)		
Neck	-9 x 35 at 1 26, 183		
Trunk	14 x 43 at 1 8, 83		
Men's	-11 x 33 at 1 8, 43		



07-Nov-2000 09:17 106 x 107
Hologic QDR-2000 (S/N 2338)
Anter Left Hip Pelvis 04.76x1

ISTITUTO RUMOLOGICO ITALIANO IRCCS



Q1300007 The 07-Nov-2000 00:24
Name: F21082 Ida
Comment: 45 RF F10 S1 E
I.S.: 00000002208 Sex: F
I.S.B.: 823-01-1324 Ethnic: M
ZIPCode: Height: 168.00 cm
Scan Code: 82 Weight: 50.00 kg
BirthDate: 12-Feb-58 Age: 58
Physician: 0000

Date	Age	BMD	BMD	BMD	BMD
22 Jul 88	58.4	0.719	0.567	0.853	0.752
07 Nov 88	58.7	0.715	0.527	0.878	0.752

Region	Rate of Change/yr (SD)	% Change/yr (SD)
Neck	-0.0138 0.0488	-1.92 6.38
Trunk	-0.0334 0.0257	-5.80 5.23
Inter	+0.0528 0.0417	+6.05 4.76
TOTAL	-0.0144 0.0276	-1.72 24.88

***NeckB = 95% Conf Interval
* Age and sex matched
† = peak BMD matched

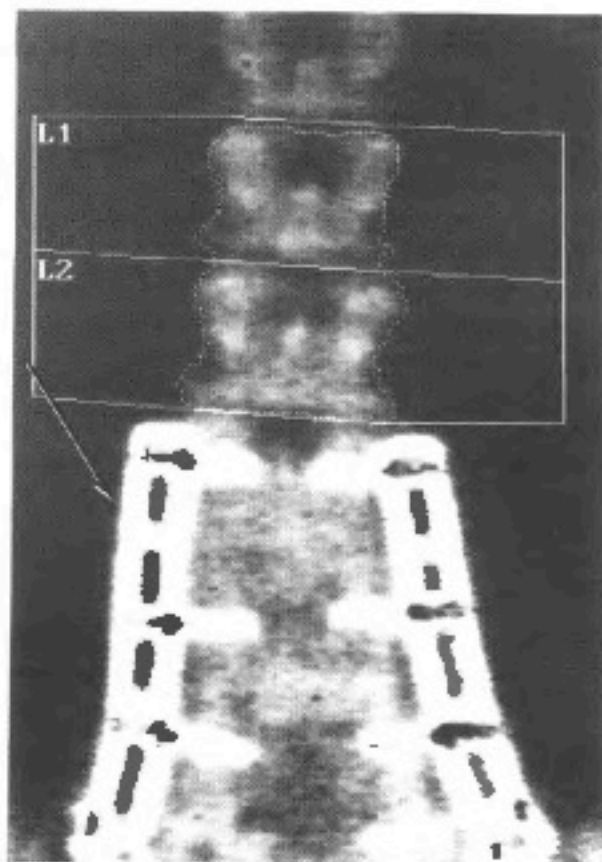
16X 25 Oct 91

NECK -1.9%
TOT -0.6%





FUSIONE DEL RACHIDE



D1828920A Tue Oct [REDACTED]
Name: [REDACTED]
Comment: 7 OSTEOPOROSIS
I.D.: [REDACTED] Sex: F
S.S.#: - - Ethnic: W
ZIPCode: W18 Height: 161.58 cm
Scan Code: TA Weight: 85.58 kg
BirthDate: [REDACTED] Age: 51
Physician: [REDACTED]

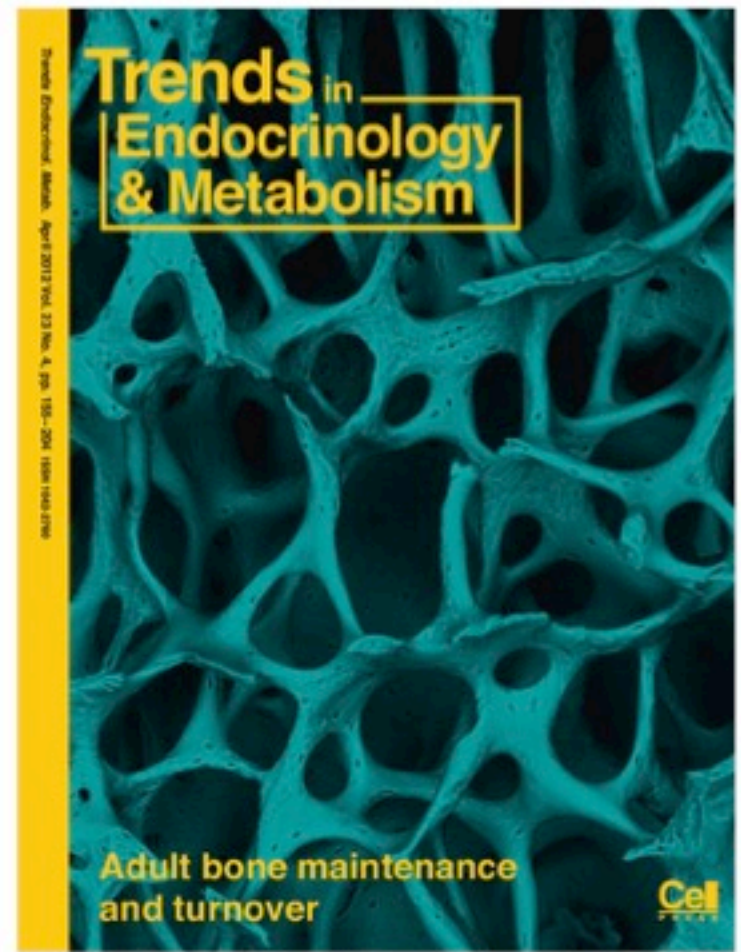
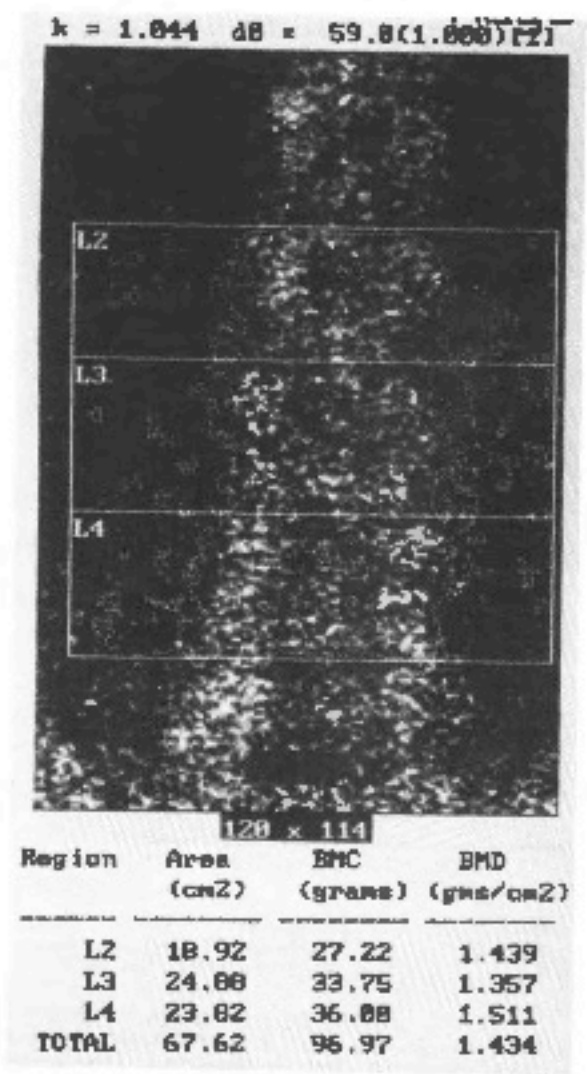
TOTAL BMD CV FOR L1 - L4 1.8%

C.F. 1.884 1.861 1.888

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	12.88	18.66	0.883
L2	14.32	14.95	1.044
TOTAL	26.48	25.61	0.970



PAZIENTE CON ASCITE

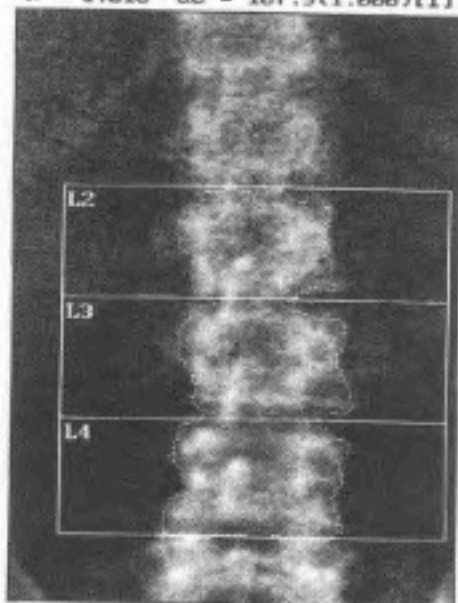




TUBO DI DRENAGGIO IN PZ CON RECENTE INTERVENTO CHIRURGICO

Before transplant

k = 1.218 d0 = 107.9(1.000)[1]

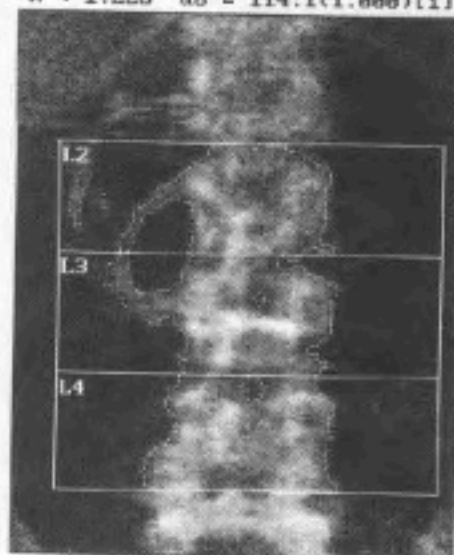


113 x 100

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L2	12.46	8.89	0.649
L3	15.27	9.67	0.634
L4	16.66	12.15	0.730
TOTAL	44.39	29.91	0.674

3 months after transplant

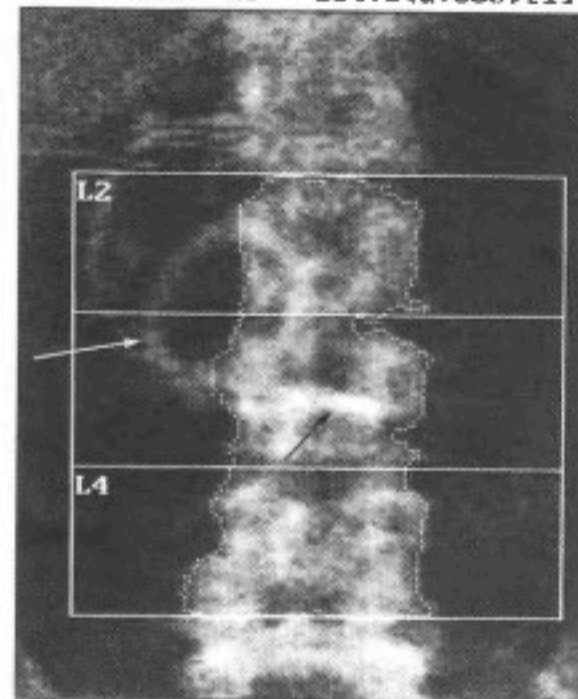
k = 1.220 d0 = 114.1(1.000)[1]



113 x 100

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L2	14.51	8.92	0.614
L3	16.66	11.49	0.690
L4	16.68	11.42	0.685
TOTAL	47.85	31.82	0.665

k = 1.220 d0 = 114.1(1.000)[1]



113 x 100

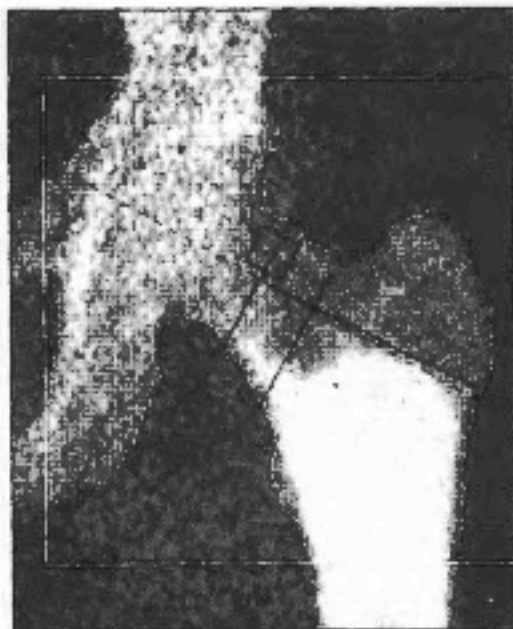
Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L2	12.18	8.01	0.657
L4	16.94	11.45	0.676
TOTAL	29.12	19.46	0.668



LESIONE SCLEROTICA DEL FEMORE SINISTRO



112 x 134



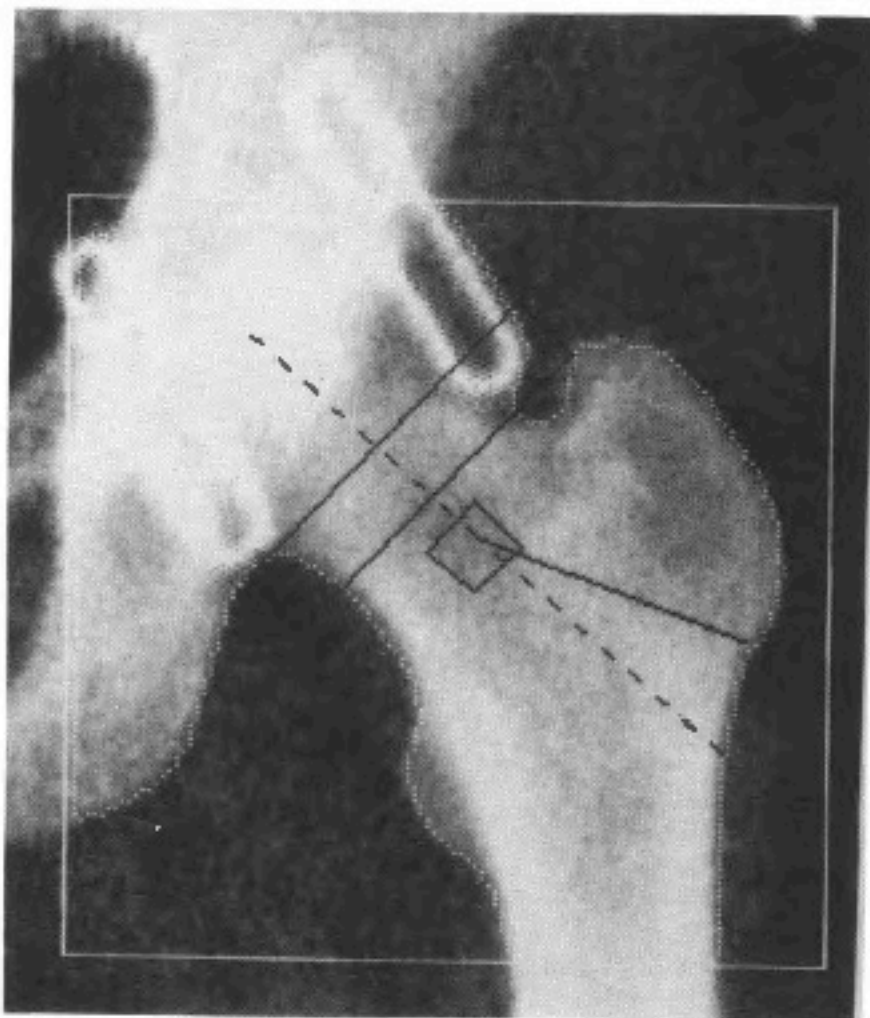
121 x 136

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	4.28	3.88	0.925
Troch	13.92	11.49	0.825
Inter	23.24	29.88	1.248
TOTAL	41.36	44.37	1.073
Ward's	1.82	0.73	0.716
Midline	(184, 132)-(32, 66)		
Neck	47 x 12 at [-21, 11]		
Troch	-6 x 48 at [0, 0]		
Ward's	11 x 11 at [-9, 9]		

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	5.95	4.51	0.757
Troch	13.59	8.61	0.634
Inter	24.42	55.76	2.284
TOTAL	43.96	68.87	1.567
Ward's	1.16	0.57	0.495
Midline	(114, 142)-(228, 82)		
Neck	-53 x 16 at [29, 21]		
Troch	4 x 61 at [0, 0]		
Ward's	-11 x 11 at [13, 0]		

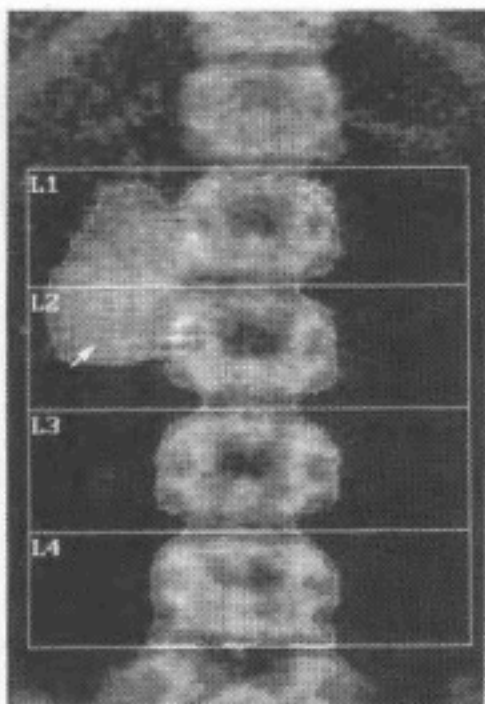


ARTEFATTI



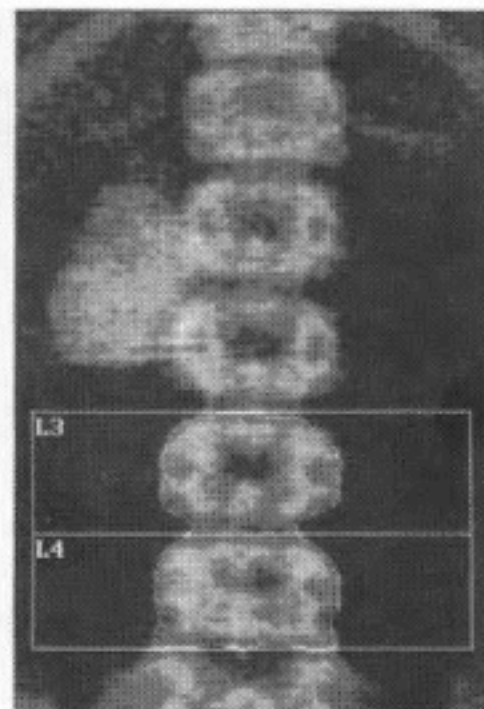


MEZZO DI CONTRASTO



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L1	18.43	11.87	0.681
L2	19.82	11.91	0.626
L3	13.33	7.76	0.582
L4	13.86	9.27	0.669
TOTAL	64.64	40.80	0.619

A



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L3	13.13	7.66	0.583
L4	13.86	9.32	0.672
TOTAL	26.99	16.98	0.629

B



ARTEFATTI INTERNI O ESTERNI AL ROI

k = 1.247 dB = 100.0(1.000)[1]

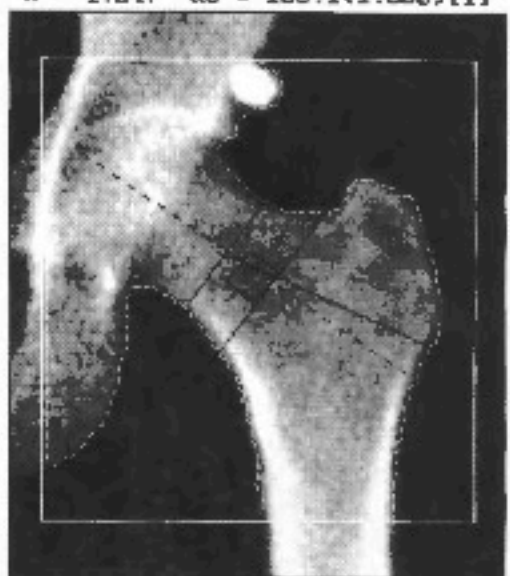


116 x 117

Hologic QDR 1000 (S/N 002)
Left Hip Version 4.01

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	6.84	3.86	0.639
Troch	13.30	8.15	0.609
Inter	23.12	25.00	1.084
TOTAL	42.54	37.09	0.872
Ward's	1.11	0.40	0.433
Midline (100,144)-(190, 00)			
Neck -63 x 16 at [33, 6]			

k = 1.247 dB = 100.1(1.000)[1]



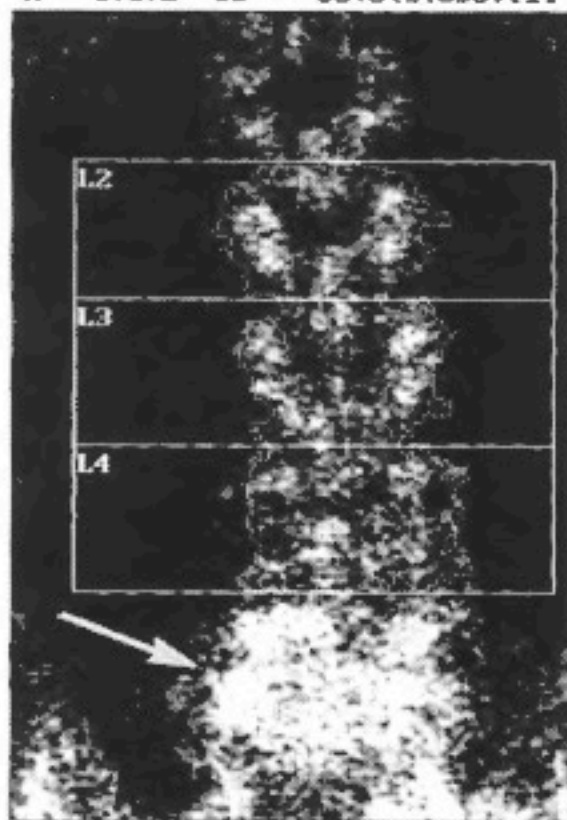
116 x 131

Hologic QDR 1000 (S/N 002)
Left Hip Version 4.01

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	6.84	3.91	0.647
Troch	13.34	8.07	0.605
Inter	23.25	24.94	1.073
TOTAL	42.63	36.92	0.866
Ward's	1.11	0.51	0.457
Midline (100,144)-(190, 00)			
Neck -63 x 16 at [33, 6]			



$k = 1.172$ $d0 = 05.6(1.000)(1)$



112 x 107

Hologic QDR 1000 (S/N 190)

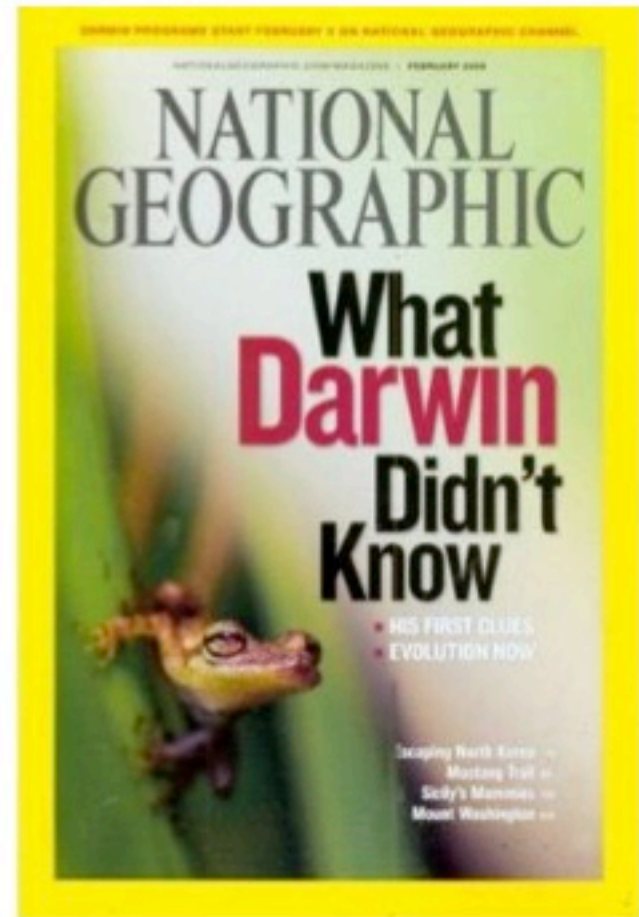
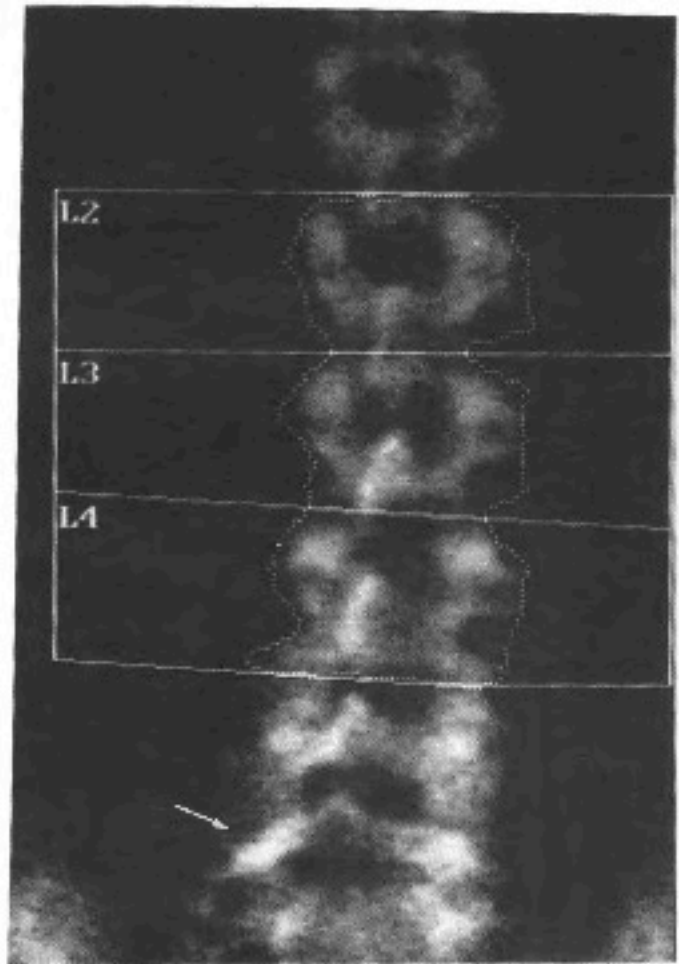
PAZIENTE CON ASCITE
ASPETTO GRANULOSO
DELL'IMMAGINE
RECENTE CROLLO DI L5

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
L2	13.58	12.93	0.952
L3	14.33	12.57	0.877
L4	16.14	12.36	0.766
TOTAL	44.85	37.86	0.860



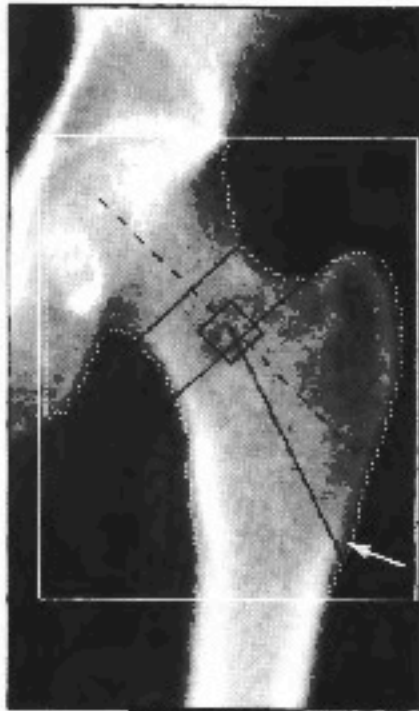
ANOMALIE ANATOMICHE

6 VERTEBRE LOMBARI





k = 1.226 d0 = 118.4(1.000)[1]



02 x 106

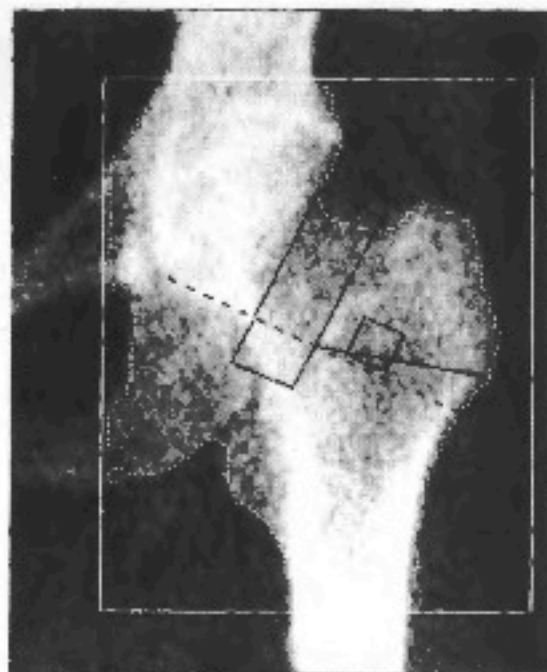
Hologic QDR 1000 (S/N 148)
Left Hip Version 4.03

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	5.03	3.47	0.689
Troch	14.36	8.84	0.616
Inter	11.55	12.17	1.054
TOTAL	30.94	24.48	0.791
Ward's	1.07	0.60	0.558
Midline (82,122)-(142, 68)			
Neck	-48 x 16 at [24, 12]		
Troch	-19 x 55 at [0, 0]		
Ward's	-11 x 11 at [5, 4]		

ERRORE BOX

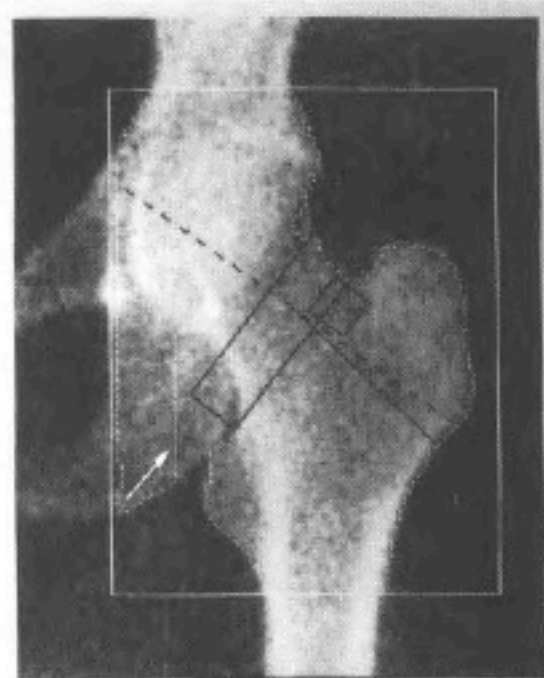


GRAVE ARTROSI DELL'ANCA



98 x 129

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	6.29	4.13	0.656
Troch	11.36	5.65	0.497
Inter	55.20	51.37	0.929
TOTAL	72.93	61.15	0.839

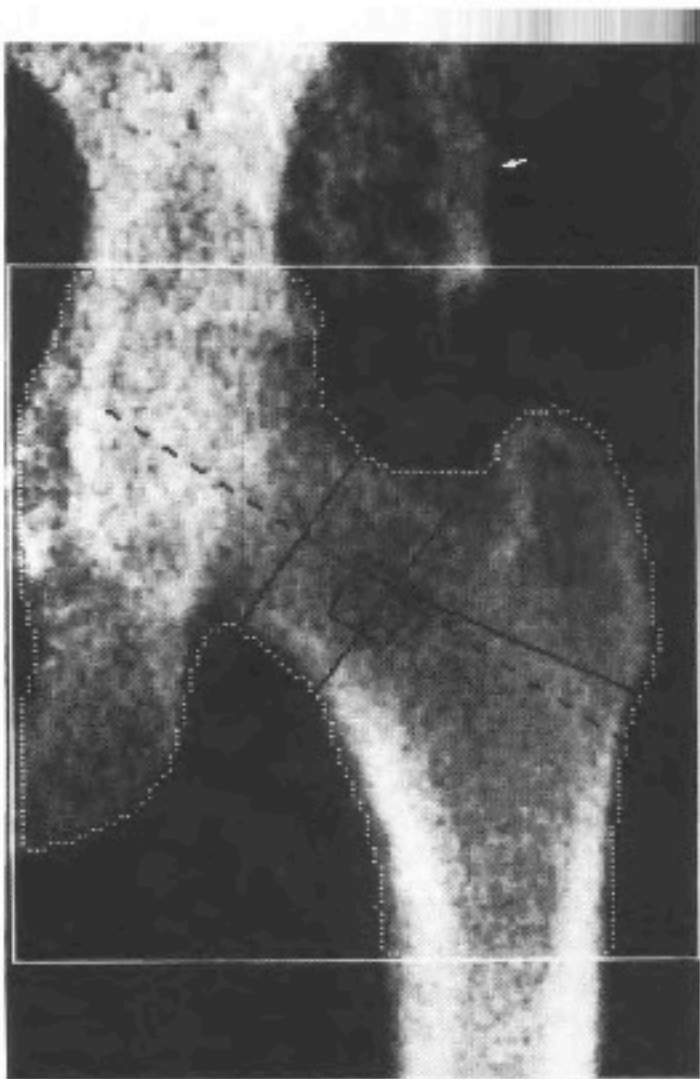


89 x 122

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	4.85	2.90	0.614
Troch	11.30	5.30	0.473
Inter	19.43	13.70	0.705
TOTAL	35.66	22.07	0.619



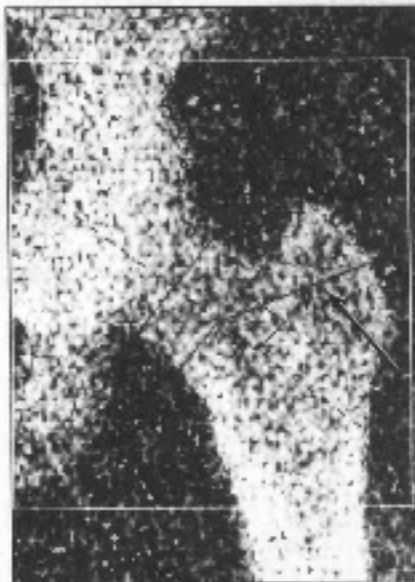
CALCIFICAZIONE ESTERNA ALLA ROI





EFFETTO DELL'OBESITA'

k = 1.178 dB = 82.8(1.000)[1]



105 x 125

Hologic QDR 1000 (S/N 151)
Left Hip Version 4.01

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	4.56	5.25	1.151
Troch	4.52	3.87	0.855
Inter	23.82	28.78	1.205
TOTAL	32.90	37.82	1.149
Ward's	1.16	1.28	1.038

Midline (100,102)-(106, 48)

Neck	-42 x 16 at [23, 15]
Troch	39 x 22 at [8, 8]
Ward's	-11 x 11 at [11, -3]

A



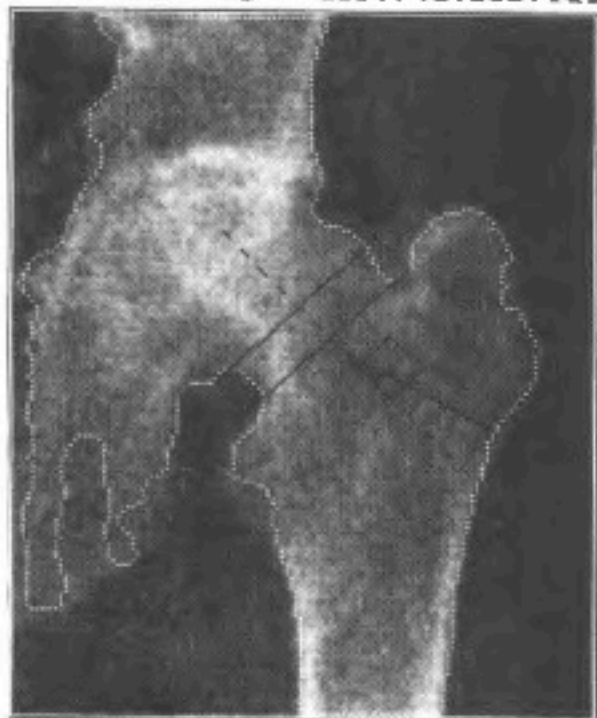
Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	6.39	6.28	0.983
Troch	13.75	14.57	1.059
Inter	29.72	55.81	1.851
TOTAL	49.86	75.86	1.522
Ward's	1.10	0.68	0.622

B



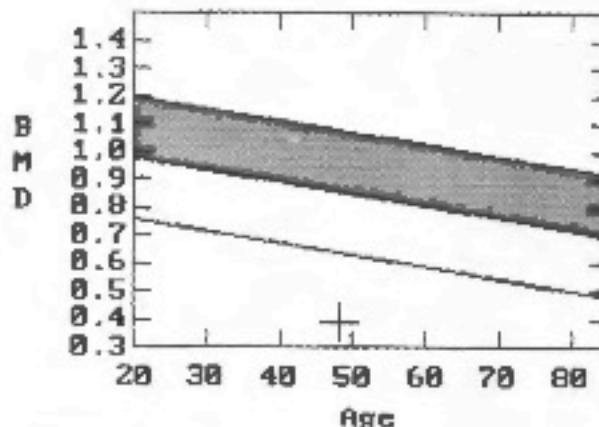
DENSITA' OSSEA ESTREMAMENTE RIDOTTA DIFFICOLTA' A REPERIRE I CONTORNI OSSEI

k = 1.247 d0 = 109.7(1.000)[1]



123 x 159

Hologic QDR 1000 (S/N 002)
Left Hip Version 4.20

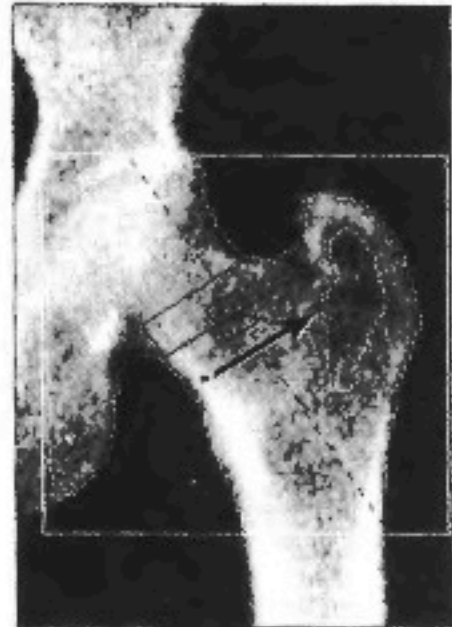


BMD(Neck) = 0.387 g/cm²

Region	BMD	T	Z
Neck	0.387	-5.38 40% (20.0)	-4.28 45%
Troch	0.281	-5.42 25% (20.0)	-4.95 27%
Inter	0.298	-6.35 23% (20.0)	-5.77 25%
TOTAL	0.276	-6.12 26% (20.0)	-5.58 28%
Ward's	0.885	-6.23 10% (20.0)	-4.72 13%

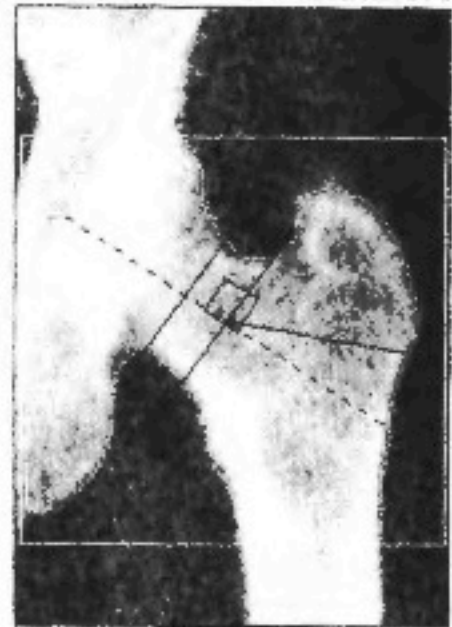


k = 1.230 d0 = 111.6(1.000)(1)



100 x 90

k = 1.234 d0 = 110.5(1.000)(1)



105 x 100

Hologic QDR 1000 (S/N 140)
Left Hip Version 4.07

ERRATO POSIZIONAMENTO COLLO

Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	4.34	3.31	0.762
Troch	12.20	5.78	0.474
Inter	22.34	20.00	0.895
TOTAL	38.88	29.09	0.748
Ward's	1.04	0.58	0.483
Midline	(100, 114)-(102, 50)		
Neck	-45 x 14 at [23, 12]		
Troch	20 x 42 at [8, 8]		
Ward's	-11 x 11 at [10, 6]		

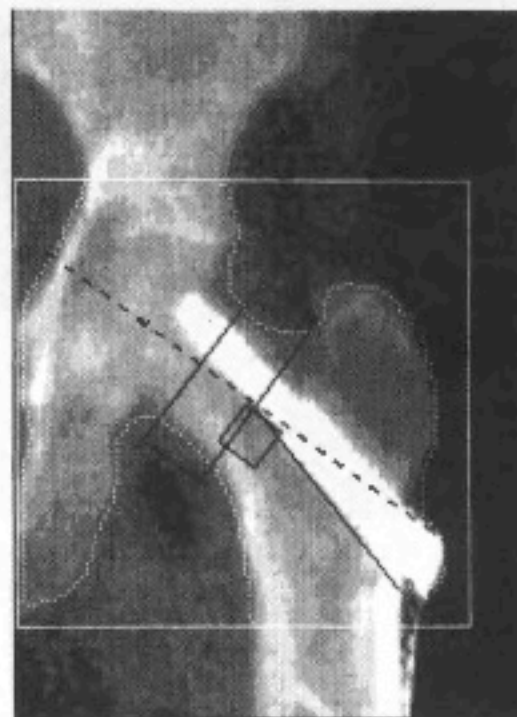


ARTEFATTI PER PROTESI



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	5.25	2.56	0.488
Troch	13.49	25.36	1.888
Inter	23.77	48.85	2.022
TOTAL	42.50	75.98	1.788
Ward's	0.99	0.26	0.265

A



Region	Area (cm ²)	BMC (grams)	BMD (gms/cm ²)
Neck	5.88	10.79	2.123
Troch	17.57	47.55	2.706
Inter	10.19	11.98	1.176
TOTAL	32.84	70.33	2.141
Ward's	1.10	0.99	0.899

B

SCIENTIFIC AMERICAN

January 2010 ScientificAmerican.com

Consciousness
100 Trillion
Brain-Cell
Connections

Health
Hotbeds for
New Flu Strains

Research
Robo Scientists
in the Lab



How
internal
fertilization
changed the
course of
evolution

The Real Sexual Revolution



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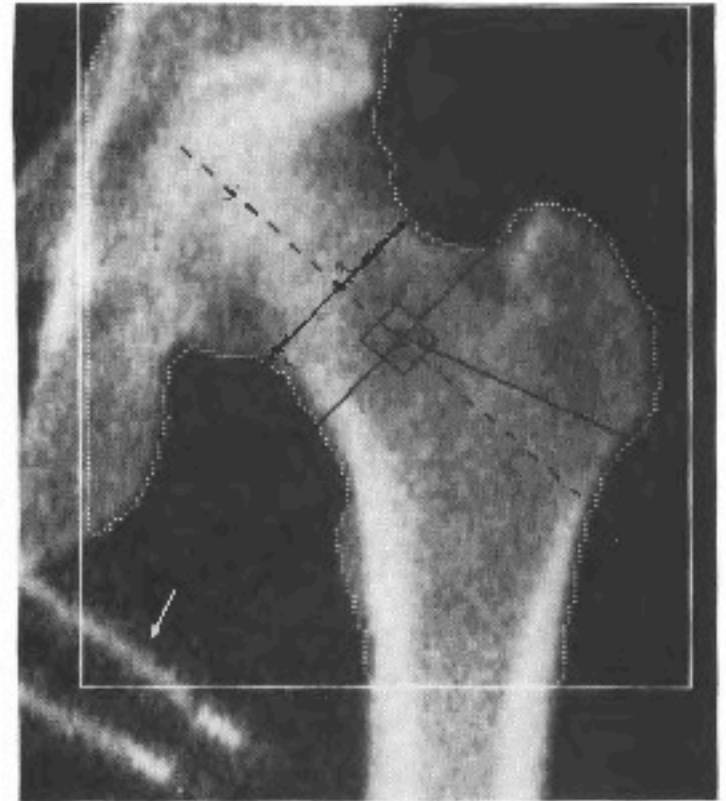
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PROTESI PENIENA



A



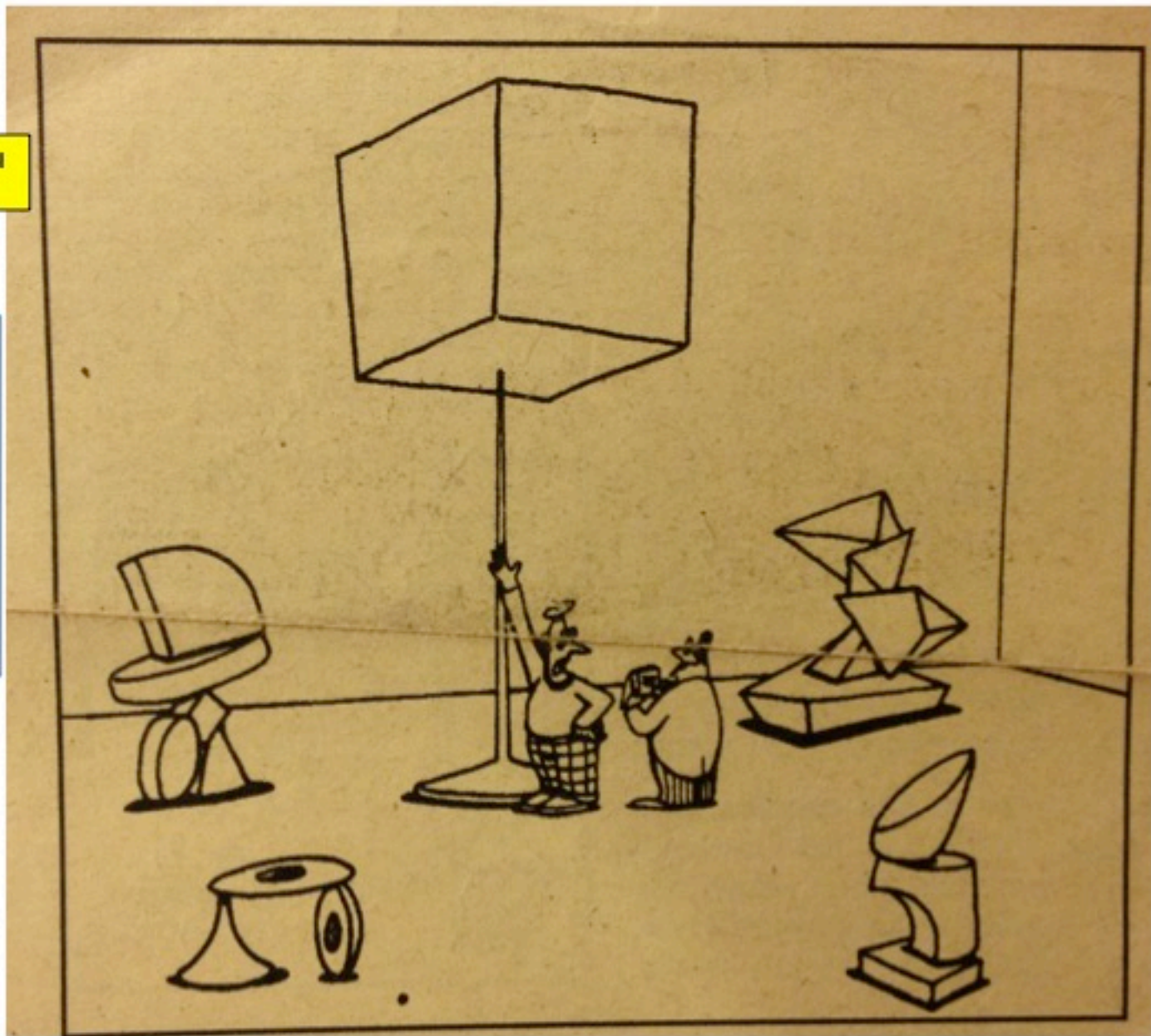
B



DIAGNOSI E CURA DELL'OSTEOPOROSI
GORIZIA 27-27 FEBBRAIO 2015

GRAZIE

SERGIO ORTOLANI
MARIA LUISA BIANCHI
ROBERTO CHERUBINI
SILVIA VAI



E' UNO DEI MIEI PEZZI MIGLIORI. L'HO INTITOLATO:
ASPETTANDO CHE L'INCIDENTE ACCADA