

# SCANNING WHOLE BODY

The Whole Body scan option quantifies bone mineral for a subject's entire body. The analysis will present the Bone Mineral Content (BMC) in grams, Bone Mineral Density (BMD) in g/cm<sup>2</sup>, and AREA in cm<sup>2</sup>, for the total body as well as the head, trunk, abdomen, arms, legs, and operator-defined regions of interest.

The Whole Body scan requires the operator to mark the start and baseline points. Intelligent scanning (i.e. scanning bone edge to bone edge) is used to minimize scan time and to ensure the scan automatically stops after scanning the patient's feet.

**This supplement is to be used in conjunction with the Operator's Guides.**

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## Detailed Scan Specifications

Detailed specifications for the Whole Body scan are in the following tables.

Whole Body Scan Specifications	
Scan Site	Entire Body
Accuracy <sup>a</sup>	Typically within 2.0% of industry standard
In vivo Precision <sup>b</sup>	With Dynamic Filtration and Host Software Revision Higher than 3.0.0 (See table below)

a. Based on Standard Speed Scans of an anthropomorphic phantom.

b. Based upon 14 subjects, 3 scans each, using standard procedures. For other system configurations refer to Appendix A.

### *In vivo* Precision - Scanners with Dynamic Filtration and Host Software Revision Higher than 3.0.0.<sup>a</sup>

Resolution, Scan Speed		Head	Trunk	Abdomen	Arms	Legs	Total
6.5 x 13.0 mm 260 mm/sec	BMC C.V.	1.5%	1.2%	2.3%	1.8%	1.1%	0.67%
	BMD C.V.	1.6%	2.1%	2.3%	1.6%	1.3%	0.78%
	AREA C.V.	1.2%	1.4%	2%	1.6%	1%	0.66%

a. For other system configurations refer to Appendix A.

\*\*\* All specifications are subject to change without notice. \*\*\*

## Patient Dose



The radiation dose to the patient is dependent on the resolution, filtration, the scan speed used, and the system configuration. Dose values listed below are for any patient thickness.

Whole Body Scan Skin Entrance Dose (mrems)  
for Systems with Host Software Revision  
Higher than 3.0.0<sup>a</sup>

Resolution	Scan Speed	Patient Dose
6.5 x 13.0 mm	260 mm/sec	0.02
	130 mm/sec	0.04
4.5 x 9.0 mm	260 mm/sec	0.03
	130 mm/sec	0.05
2.8 x 7.8 mm	200 mm/sec	0.05
	100 mm/sec	0.09

a. For other system configurations refer to Appendix A.

## Operator Dose



The dose to the operator is negligible. During a scan, the radiation level at a distance of one meter from the scanner table is less than 0.1 millirems per hour.

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## **Maintaining High Quality Whole Body Scans**

Patient positioning, scan and analysis techniques can influence the precision and accuracy of Bone Density estimations. Facilities can reduce the adverse effects of some of these factors by:

- Performing and monitoring the daily QA procedure to verify that other radiation sources (X-ray machines, nuclear imagers) are not affecting the performance of the Norland Bone Densitometer.
- Ensuring that all operators position patients and analyze data in the same manner.
- Screening patients for recent radionuclide uptake procedures. Residual emission may be misinterpreted by Norland Bone Densitometers as x-rays.
- Screening patients for recent ingestion of radiopaque substances. Barium or other dyes used in some x-ray procedures could result in increased soft tissue x-ray absorption.
- Screening patients for prosthetic devices, implants, surgical staples, or other high density sub-dermal materials that may affect density estimates.
- Ensuring that scan and analysis parameters remain constant for all scans of the same patient.
- Ensuring all jewelry, eyeglasses, belts, and other high density objects are removed from the patient.
- Ensuring all body parts are within the scan area.
- Advise the patient to breath normally and do not move during the scan.

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## Quick Reference Instructions

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The Whole Body scan takes measurements from the entire body and presents BMC, BMD and Area, for the total body as well as the head, trunk, abdomen, arms, and legs.

- Click on Scan New/Existing Patient and select scan type.
- Enter/Update Patient information.
- Screen patient for contraindications.
- Position the patient on his/her back on the table, with their head to the right end of the table (front view).



### **CAUTION the patient not to stare into the laser beam.**

- Turn laser on and position the laser dot 1 cm above the top of the center of the patient's head and press the MARK button on the Scanner Control Panel to set the scan start point.
- Position the laser dot at a point on the abdomen adjacent to the spine and midway between the lowest rib and the iliac crest. Mark in an area of maximum soft tissue and no bone.
- Press the MARK button on Control Panel to set the baseline point.
- At the Scan Review screen, click on **[Start Scan]**.
- When the scan is finished, click on **[Analyze]**.
- Position the top edge of the chest cursor to just under the chin. Position the upper control points above the junctions of the humerus and scapula. Position the bottom control points to include the rib cage.
- Position the pelvic cursor to encompass the pelvis, yet containing a minimum of midriff, leg, and femoral neck tissue.
- Position the leg cursors so that both legs are encompassed.
- Select Image and click on Contrast Scaling.
- Redraw image in Bone and Composite to verify the bone and non-bone tissue are correctly defined in the regions of interest.
- When satisfied with cursor placement select Results and click on Results Page 1.
- Enter comments with "Edit Comments", if desired.
- Click on **[Continue - Print]** to print the Analysis Results Report. The system software automatically saves the scan data file to default storage and returns to the *Main Menu* when report printing has been initiated.



## General Cautions

**Caution** - Properly Mark the Patient. To ensure scanner arm does not contact the patient, always verify patient is positioned properly before scanning or moving the scanner arm.

**Caution** - Do not move the patient while marking the regions to be scanned. Always remain near the patient, in the event assistance is needed.

**Caution** - Do not reach around to the back of the unit while the scanner arm is moving. While guards are provided, it is wise to avoid any chance of pinching the arm, hand, or fingers between the scanner arm and the frame, or between the source and the scanner arm.

**Caution** - Make certain the patient does not dangle their arm or hand over the riser while the scanner arm is moving during a scan. The scan will not be usable, as the patient will not be properly positioned, and the patient may be at risk of pinching their hand or finger between the scanner arm and the riser or between the x-ray source and the scanner arm.

**Caution** - Make certain the patient does not stick a finger into the slot in the bottom of the upper arm cover during a scan; it could be pinched.

**Caution** - When positioning the patient, ensure they start by sitting near the center of the table and then swing their legs up. Sitting at either end makes positioning awkward.

**Caution** - Caution the patient to remain still during the scan to ensure quality results.

**Caution** - Help the patient up from the scanner after scan data collection; some patients may require a few minutes to regain equilibrium after lying down for a length of time.

**Caution** - Do not scan a pregnant subject.

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## Initial Setup

## Patient Preparation

The patient will be lying in a supine position on the scanner table. Light-weight or cotton clothing is acceptable but jewelry, zippers, buttons, back braces, belts, glasses, or any metal or high density plastic must be removed. These items will affect bone mineral estimations. An examination gown or robe may be more suitable.

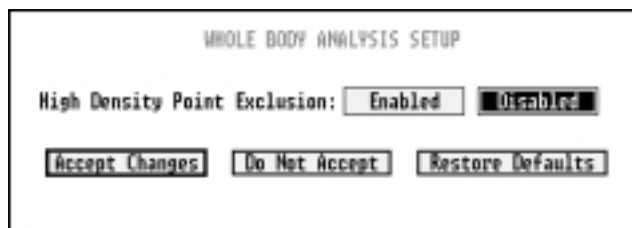


**Do not scan patients that may be pregnant or have had a recent radionuclide uptake procedure.**

## Analysis Option

The system software is equipped with a feature that will exclude high density objects from the analysis. This feature is normally disabled. It can be enable for all scans at the *Main Menu* or for just the current scan at the *Analysis Menu*.

1. Determine if the patient has had any dental work, implants, or any sub-dermal high density objects. These objects may affect the results of the scan.
2. To enable High Density Point exclusion, select *Main Menu* item **Setup** and click on **Analysis**. Select Whole Body and the following screen should display.



- High Density Point Exclusion will exclude data points with a density  $>7.5 \text{ g/cm}^2$  from the analysis.
3. Click on **[Enabled]** and then click on **[Accept Changes]**. The system will return to the Main Menu.



**Remember to disable High Density Point exclusion at the completion of the scan.**



## Scan Speed

The default scan speed and resolution may be changed from the *Main Menu*.

Select *Main Menu* item **Setup** and click on **Scanning**. Select the desired scan parameters and click on **[Accept Changes]**. The system will return to the Main Menu.

### Scan Speeds for Systems with Host Software Revisions Higher than 3.0.0.<sup>1</sup>

WHOLE BODY SCAN SETUP		
Resolution:	6.5 x 13.0	nm
Scan Width:	Automatic	cm
Scan Length:	Automatic	cm
Scan Speed:	260.0	nm/sec
Resolution/Speed:	<div>6.5 x 13.0 260 nm/sec</div> <div>6.5 x 13.0 130 nm/sec</div> <div>4.5 x 9.0 260 nm/sec</div> <div>4.5 x 9.0 130 nm/sec</div> <div>2.0 x 7.0 260 nm/sec</div> <div>2.0 x 7.0 100 nm/sec</div>	
<div>Accept Changes</div> <div>Do Not Accept</div> <div>Restore Defaults</div>		

1. For other system configurations refer to Appendix A.

## Performing Whole Body Scans

### Scan New Patient

1. Click on the **Scan New Patient** shortcut from the Main Menu. The PATIENT PERSONAL DATA screen will display.

PATIENT PERSONAL DATA

Name:

ID:

Sex:

Birth Date:  /  /

Ethnic:

2. Enter personal information and click on **[Continue]**. The "Name" and "ID" entries are mandatory for scanning.
  - Name should be (last name), (first name).
  - ID Number must be unique to be accepted. If the entered number is already in use, a message will display indicating that the number is already in use. For example: (SSN or Clinic/Hospital ID)
  - Enter only the patient's self-reported ethnic background.
  - Pressing **or** will move cursor through fields.
3. At the SCAN TYPE screen, click on desired scan type and click on **[Continue]**.
4. Enter the patient's vital statistics and click on **[Continue]**.

Height:

Weight:

Technician:

Physician:

- Use consistent units of measurement for the height and weight fields.
  - This information will be updated for each successive scan of the patient and will not affect scan results.
  - Pressing **Enter** or **Tab** will move cursor through fields.
5. Proceed to Patient Positioning to prepare the patient for scanning.

## Scan Existing Patient

1. Click on the **Scan Existing Patient** shortcut from the Main Menu. The patient list will display.

FIGURE 1

NAME	ID
Doe, Jane	12347
Doe, Janet	12346
Doe, Janine	12348
Doe, Janna	12349

None PgUp +

End PgDn +

Search by Name

Search by ID

Continue Cancel

- Click on Page Up or Page Down to display the next group or use the arrow buttons to scroll.
- A search may be done by patient ID number or name. Enter appropriate information and click on **[Continue]**; partial information can be used. For example, entering 'D' when searching by name will show scan list and highlight first name that starts with 'D', allowing user to fine tune search for patient's name.

FIGURE 2

SEARCH BY NAME

Name:

Continue Cancel

SEARCH BY ID

ID:

Continue Cancel

2. Click on patient name and click on **[Continue]**. (Or double-click on patient name.)
3. At the SCAN TYPE screen, click on desired scan type and click on **[Continue]**.
4. Update the patient's vital statistics and click on **[Continue]**.

- Use consistent units of measurement for the height and weight fields.
  - This information will be updated for each successive scan of the patient and will not affect scan results.
  - Pressing **Enter** or **Tab** will move cursor through fields.
5. Proceed to Patient Positioning to prepare the patient for scanning.

## Patient Positioning

Positioning the patient for a whole body scan is quite simple. There are no special positioning aids required, however, care must be taken to ensure that positioning can be easily repeated for subsequent scans.

1. Using the Scanner Control Panel, position the scanner arm at the foot of the table.
2. Have the patient lie on the table, face up with the head to the right.
3. Center the patient on the table
4. Place the arms at the sides of the patient and the feet together.
5. Use velcro straps, tape, or a sheet to secure the hands and feet so that patient movement is kept to a minimum.



### **CAUTION the patient to not stare into the laser beam.**

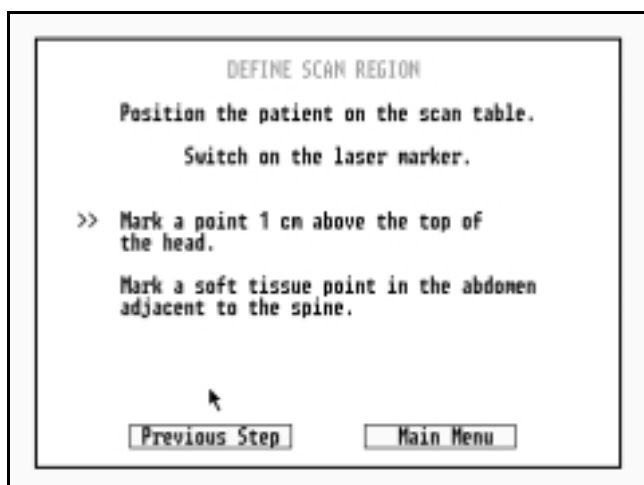
6. Turn on the laser and move the scanner arm around the perimeter of the table, making sure that the patient is within the scan window.
  - Make the patient as comfortable as possible since movement during the scan will affect the results. The use of a sheet or light blanket will not interfere with scan results.
  - Do not use a pillow under the patient's head.

The patient is now ready for scanning. Proceed to Scan Procedure.

## Scan Procedure

The DEFINE SCAN REGION screen should be displayed on the computer. (See Figure 3)

FIGURE 3



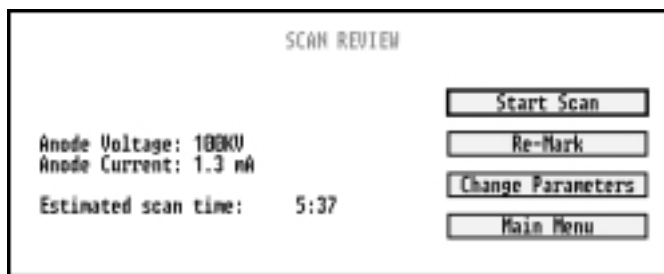
- The **[Previous Step]** command will return to the previous step.
- Click on **[MainMenu]** to cancel the scan and return to the Main Menu.



### **CAUTION the patient to not stare into the laser beam.**

1. Move the scanner arm above the patient's head. Turn on the laser and position the scanner arm so the laser dot is approximately 1 cm above the top of the center of the patient's head.
2. Press the MARK button on the Scanner Control Panel. The computer will issue a beep and the laser will turn off, indicating acknowledgement of the scan start point.
3. The DEFINE SCAN REGION screen will request that the baseline point scan point be identified.
4. Move the scanner arm over the patient's abdomen and turn on the laser.
5. Position the scanner arm so that the laser dot is at a point on the abdomen adjacent to the spine and midway between the lowest rib and the iliac crest. This is the area of maximum soft tissue thickness.
6. Press the MARK button.
7. Once the start and baseline points have been marked, the **SCAN REVIEW** screen will be displayed on the screen. (See Figure 4)
  - Scan times are dependent on scan parameters and scan length.

FIGURE 4



The operator can:

- Click on **[Re-Mark]** to re-mark start and baseline points.
  - Click on **[Change Parameters]** to edit the scan parameters.
  - Click on **[Main Menu]** to cancel the scan and return to the Main Menu.
8. Caution the patient to remain still and click on **[Start Scan]** to begin the scan. The system software will:
- Turn off the laser.
  - Select the appropriate filter combinations as determined by the patient thickness.
  - Measure detector counts with no x-rays for background reference.
  - Apply voltage to x-ray source and start the scan.

X-rays will energize and data collection will start as the scanner arm moves down the patient. Background detector count will be subtracted from the scan counts to provide a true representation of the amount of x-ray absorption. The Current Scan Progress screen will generate the image based on detector output even as the scan data is being collected. An estimate of the remaining scan time will also be displayed.

9. Observe the image on the Current Scan Progress screen as it updates. The scan should be terminated immediately if the patient moves during the scan. Patient movement will adversely affect the accuracy of the scan.



- Clicking on **[Stop Scan]** will pause the scan after the current scan line is completed. A warning message indicating that there aren't enough scan lines to analyze may be displayed. The scan can be resumed or terminated at this point.
- If it is necessary to immediately terminate the x-ray exposure or stop scanner arm movement, press the **HALT** button on the Scanner Control Panel. The system power will have to be recycled to resume scanning after pressing the **HALT** button. Leave the computer powered on to retain the current study.



**WARNING: If computer power is recycled in this instance, the scanner arm will return to origin position. ENSURE THAT PATIENT IS NOT IN SCANNER ARM PATH!**

The scan will stop one scan line past the patient's feet and an audible beep will sound to indicate that the scan is complete. The system software will update the CURRENT SCAN PROGRESS screen with the "Scan Complete" message.

10. If image is satisfactory and no evidence of patient movement during the scan is exhibited, click on **[Analyze]**.

- The **[Save & Exit]** option will save the data to the default storage for analysis at a later time. See "Analyzing Saved Scan Data" section of this manual.
- The **[Extend Scan]** option allows extension of the measurement scan by adding a user-defined number of scan lines to the current scan.
- The **[Discard]** option will, after confirmation by the operator, discard collected scan data and return to the Main Menu.

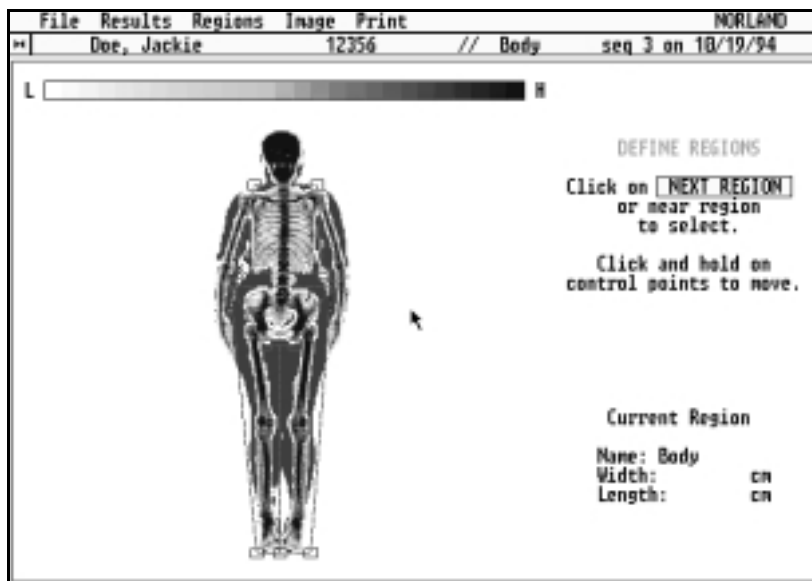


11. Help the patient up from the scanner table if no further scans are to be performed. Make sure scanner arm will not impede patient's ability to sit up. Remember that some patients may require a few minutes to regain equilibrium after lying down for a length of time.

## Analysis

The DEFINE REGIONS screen will be displayed, showing the image of the patient's body with region of interest cursors (ROI's) placed over the chest and pelvic areas, as well as each leg. The image will be displayed in the BONE - SQRT mode (See Operator's Guide - Additional Techniques).

FIGURE 5

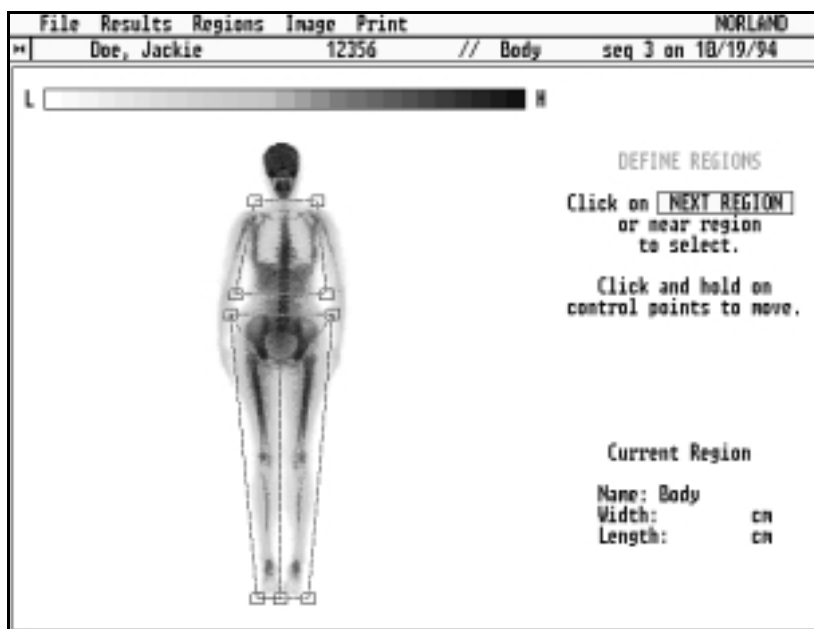


1. Click on **[NEXT REGION]** to activate the cursor control points.
  - If scan is not the initial scan, use the **Show Comparison** function to aid in matching the cursor positioning. (See Comparison Image on page -18)
2. Position the cursor in the middle of the chest and use the click and drag method to position the top edge of the chest cursor to just below the chin.
3. Position the upper control points above the junctions of the left and right humerus and scapula.
4. Position the bottom control points of the chest cursor between the arms and torso, with the bottom edge barely enclosing the rib cage.
5. Position the upper control points of the pelvic cursor just above the iliac crests, between the arm and torso.
6. Position the bottom left pelvic cursor control point so that the left cursor edge passes through the femoral neck and is close to the pelvis, and the bottom edge of the pelvic cursor is just below the pubic symphysis. Position the bottom right cursor similarly on the opposite side.



- If positioned correctly, the pelvic cursor will completely surround the pelvis and contain a minimum of midriff, leg, and femoral neck tissue.
7. Position the lower left leg cursor control point so that the left leg cursor edge lies along the region of minimum body tissue between the left thigh and the left hand. The bottom edge should be below the toes.
  8. Position the right leg control points similarly.
  9. Position the center leg cursor control point so that the center leg cursor edge lies along the region of minimum body tissue between the left and right leg.
  10. Select *Analysis Menu* item **Image** and click on **Contrast Scaling**.
  11. Select **Composite** and click on **Redraw**, then **Done** and verify that cursor placement is correct for non-bone tissue. (See Figure 6)
  12. When satisfied with cursor placement, select *Analysis Menu* item **Results** and click on **Results Page 1** to view result values.

FIGURE 6 - Composite Mode



## Results

The image, trending graphs, and results for Total Body will be displayed on Results Page 1 (Figure 7). The Total BMD (in g/cm<sup>2</sup>) and the Total BMC (in grams) will be displayed below the trending-graph.

The BMC, BMD, and AREA (in cm<sup>2</sup>) for Total and each region of interest analyzed will be displayed on Results Page 2 (Figure 8). The regions of interest are defined in Figure 9.

1. View the image to ensure that cursors are positioned correctly and analysis results are satisfactory.
  - The **Image** selection on the *Analysis Menu* presents commands for optimizing the displayed image. (See "Additional Techniques" of the Operator's Guide.)
2. Click on **[Continue-Print]** on Results Page 1 to print report as determined by Print Setup.
  - Analysis results will be saved to the default storage location as a scan data file under patient's name and *Main Menu* will be displayed.
  - Selecting **Print - Print Report** at the *Analysis Menu* will allow customizing of Printer Setup for the current scan.
  - Click on **[Main Menu]** to save scan data and exit to Main Menu without printing report.

FIGURE 7

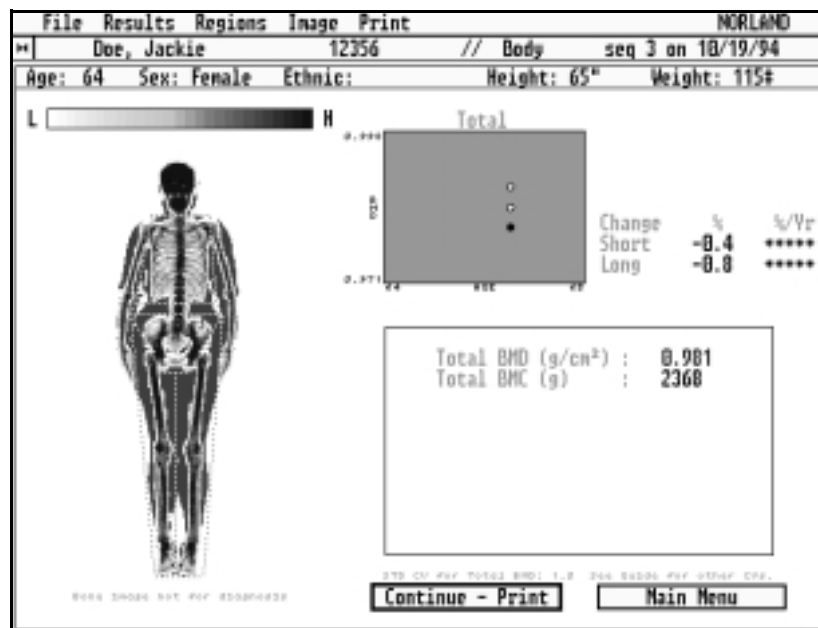


FIGURE 8

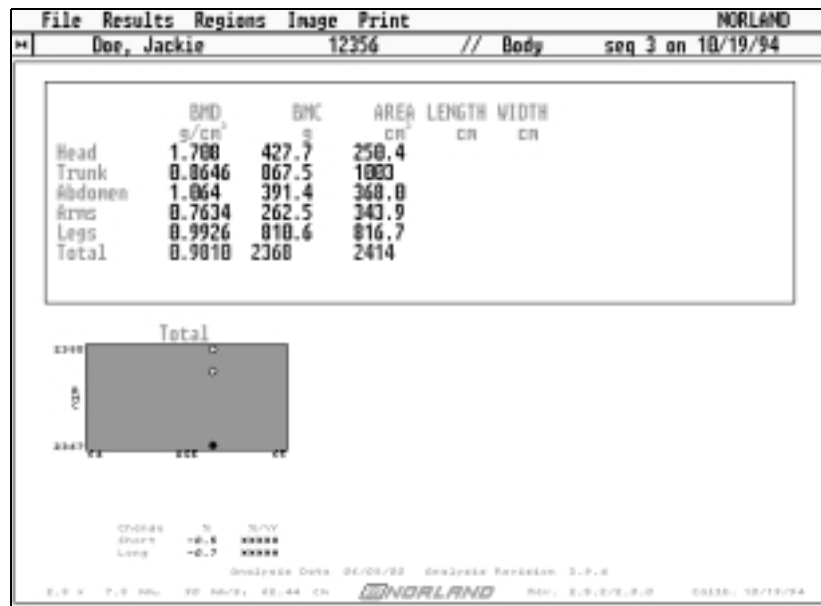
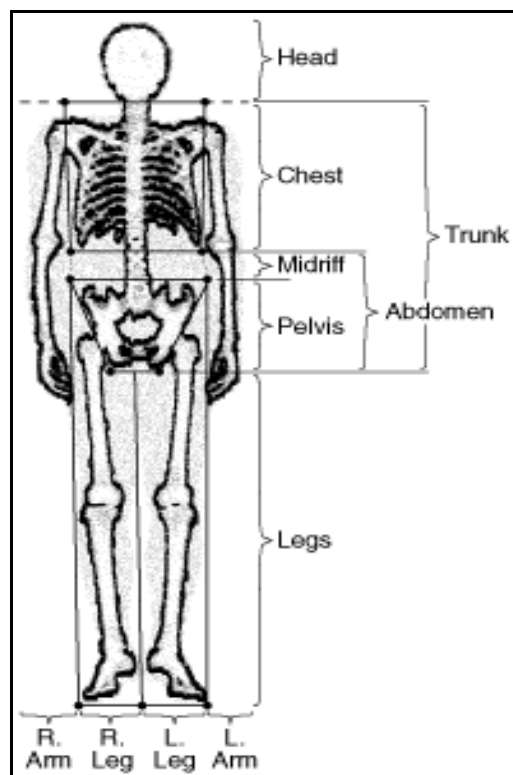


FIGURE 9



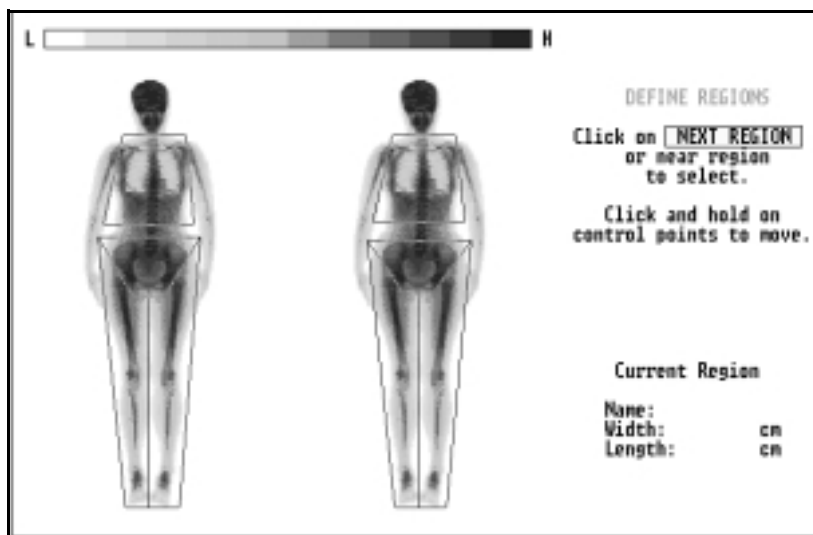
## Comparison Image

Modifying cursor placement to match previous scans of the patient can be performed using a comparison image of the patient's initial scan.

1. At the REVIEW REGIONS screen, select *Analysis Menu* item **Image** and click on **Show Comparison**.

The patient's first scan image is recalled and presented to the right of the current scan using the same linear scale as the existing image.

FIGURE 10



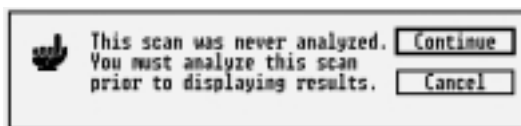
2. Click on **[NEXT REGION]** to activate cursor control points and position cursors to match the initial scan image.
3. Once positioned, selecting **Results** from the *Analysis Menu* will recalculate the data with the new cursor positions. It is not necessary to Hide Comparison before displaying the results or saving the data.

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## Analyzing Saved Scan Data

The Host software allows an operator to perform a scan on a patient, save the data, and then analyze the saved scan data later.

1. Select *Main Menu* item **Select** and click on **Select a Patient**. Double-click on desired patient from list.  
A listing of the patient's scans is displayed. A check mark in the right column indicates that the scan has been analyzed.
2. Double click on the scan to be analyzed. The following message will be displayed; click on **[Continue]** to proceed.



3. Position cursors as described in the normal scan procedure.
4. Once cursors are in position, select *Analysis Menu* item **Results** and then click on Results Page 1.
  - If patient has been scanned previously, modify cursors to match Comparison Image.

## Appendix A

### Scan Specifications

Detailed specifications for the Whole Body scan in systems with Host Software lower than 3.0.0 are in the following tables.

Whole Body Scan Specifications	
Scan Site	Entire Body
Accuracy <sup>a</sup>	Typically within 1.0% of industry standard
In vivo Precision <sup>b</sup>	With Dynamic Filtration and Host Software Revision Lower than 3.0.0. (See table below)
In vivo Precision <sup>c</sup>	With Standard Filtration and Host Software Revision Lower than 3.0.0. (See table below)

a. Based on Standard Speed Scans of an anthropomorphic phantom.

b. Based upon 88 scans of 24 subjects and 250 phantom scans using standard procedures.

c. Based upon 17 scans of 6 subjects and 105 phantom scans using standard procedures.

#### *In vivo* Precision - Systems with Dynamic Filtration and Host Software Revision Lower Than 3.0.0

Resolution, Scan Speed		Head	Trunk	Abdomen	Arms	Legs	Total
6.5 x 13.0 mm 180 mm/sec	BMC C.V.	1.5%	2.3%	3.4%	2.5%	1.2%	0.9%
	BMD C.V.	1.8%	2.2%	2.6%	2.5%	1.9%	1.0%
	AREA C.V.	2.0%	2.7%	3.0%	3.0%	1.3%	1.1%
6.5 x 13.0 mm 90 mm/sec	BMC C.V.	1.0%	1.2%	2.5%	2.3%	1.0%	0.6%
	BMD C.V.	1.4%	1.4%	1.9%	2.3%	1.5%	1.0%
	AREA C.V.	2.0%	2.7%	2.7%	3.0%	1.3%	1.0%
4.5 x 9.0 mm 180 mm/sec	BMC C.V.	1.5%	2.3%	3.4%	2.5%	1.2%	0.8%
	BMD C.V.	1.8%	1.9%	2.3%	2.3%	1.3%	0.8%
	AREA C.V.	2.0%	1.6%	2.7%	3.0%	1.3%	0.7%
4.5 x 9.0 mm 90 mm/sec	BMC C.V.	1.0%	1.2%	2.5%	2.3%	1.0%	0.5%
	BMD C.V.	1.4%	1.2%	1.5%	2.3%	1.0%	0.8%
	AREA C.V.	1.5%	1.0%	2.4%	3.0%	0.7%	0.7%
2.8 x 7.8 mm 90 mm/sec	BMC C.V.	1.0%	1.2%	2.5%	2.3%	1.0%	0.6%
	BMD C.V.	1.4%	1.0%	1.3%	2.3%	1.0%	0.6%
	AREA C.V.	1.5%	1.0%	2.0%	2.0%	0.6%	0.7%

*In vivo* Precision - Systems With Standard Filtration  
and Host Software Revision Lower than 3.0.0.

Resolution, Scan Speed		Head	Trunk	Abdomen	Arms	Legs	Total
6.5 x 13.0 mm 80 mm/sec	BMC C.V.	3.4%	1.9%	3.9%	1.8%	1.8%	0.9%
	BMD C.V.	3.2%	2.5%	4.2%	2.8%	2.2%	2.0%
	AREA C.V.	2.2%	2.1%	3.1%	2.7%	1.8%	1.6%

## Patient Dose



The radiation dose to the patient is dependent on the resolution, filtration, the scan speed used, and the system configuration. Dose values listed below are for any patient thickness.

Whole Body Scan Skin Entrance Dose (mrems)  
for Systems with Host Software Revisions  
Lower than 3.0.0

Resolution	Standard Filtration 80 mm/sec	Dynamic Filtration 180 mm/sec	Dynamic Filtration 90 mm/sec
6.5 x 13.0 mm	.005	0.07	0.14
4.5 x 9.0 mm		0.10	0.20
2.8 x 7.8 mm			0.23



## Operator Dose

The dose to the operator is negligible. During a scan, the radiation level at a distance of one meter from the scanner table is less than 0.1 millirems per hour.

\*\*\* All specifications are subject to change without notice. \*\*\*

### Scan Speeds

Scan speeds for systems with Host Software revisions lower than 3.0.0 and Dynamic Filtration.

WHOLE BODY SCAN SETUP

Resolution:

6.5 x 13.0 mm

Scan Width:

Automatic cm

Scan Length:

Automatic cm

Scan Speed:

100 mm/sec

Resolution/Speed:

6.5 x 13.0 100 mm/sec

6.5 x 13.0 90 mm/sec

4.5 x 9.0 100 mm/sec

4.5 x 9.0 90 mm/sec

2.8 x 7.8 90 mm/sec

Accept Changes

Do Not Accept

Restore Defaults

Scan speed for systems with Host Software revisions lower than 3.0.0 without Dynamic Filtration.

WHOLE BODY SCAN SETUP

Resolution:

6.5 x 13.0 mm

Scan Width:

Automatic cm

Scan Length:

Automatic cm

Scan Speed:

80 mm/sec

Accept Changes

Do Not Accept

Restore Defaults