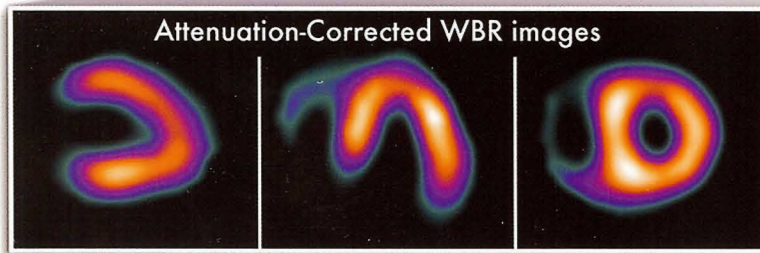
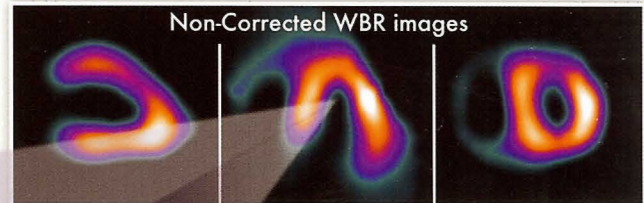


# Attenuation Corrected WBR™ Cardiac Imaging

## The Ultimate Field Upgrade for WBR-based Myocardial Perfusion SPECT



Whether you've made the Xpress.Cardiac™ or the Xpress3.Cardiac™ your product of choice for fast cardiac acquisition protocols and image reconstruction, UltraSPECT®'s new Attenuation Correction/Scatter

Correction package, especially customized to WBR technology, is your key to enhanced image accuracy and increased interpretive confidence!

Attenuation Correction has enjoyed growing acceptance in recent years, and is recommended by both the American Society of Nuclear Cardiology and the Society of Nuclear Medicine. The benefits are simply immeasurable!

- Improved image quality (increased sensitivity and higher normalcy rates)<sup>1</sup>
- Higher diagnostic accuracy<sup>2</sup>
- Increased interpretive certainty<sup>2</sup>
- Reduced breast/adipose tissue and diaphragmatic attenuation artifacts<sup>3</sup>
- Increased potential for Stress-only imaging<sup>2</sup>
- Promise of gender-independent reference data bases<sup>4</sup>
- Distortion-free scatter correction feature—no smoothing filters applied
- Improved department efficiency.

<sup>1</sup>J.M. Links et. al., 2002, JNC, Vol. 9, No. 2, pp. 183-7.

<sup>2</sup>G.V. Heller et. al., 2004, JNC, Vol. 11, No.2, pp. 229-30.

<sup>3</sup>F.J.T. Wackers, 2004, EANM, Vol. 29, No.3, pp. 410-5.

<sup>4</sup>R.C. Hendel et. al., 2002, JNC, Vol. 9, No. 1, pp. 135-43.

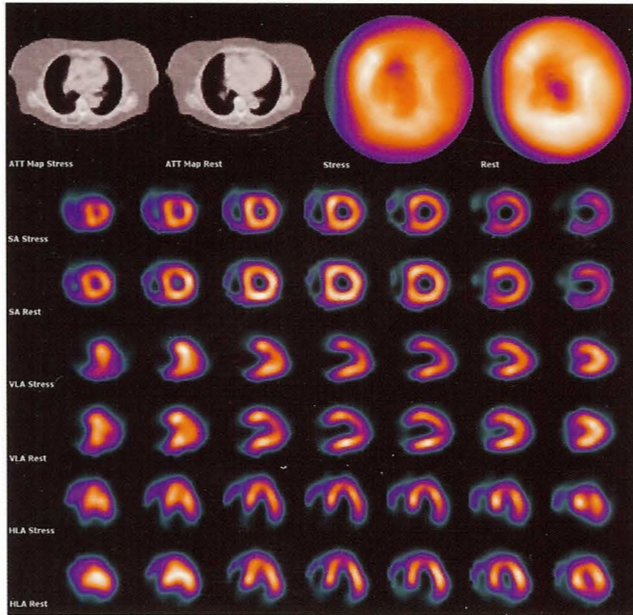
The attenuation maps required are based on patient scans using an X-ray CT. For optimal attenuation corrected cardiac image accuracy/interpretation, it is recommended you ensure:

- High-quality, high-statistics attenuation maps with resolution comparable to the emission images
- Attenuation maps axial coverage greater than that of the scanned emission data by >2 cm at each end
- Proper registration of the attenuation maps with the emission data
- Emission data is corrected for patient motion
- ECG-gated Stress acquisition for more accurate diagnosis of fixed defects
- Side-by-side viewing of corrected and non-corrected images for clinical interpretation
- Adequate prior training of technologist/physician in the acquisition/interpretation of attenuation-corrected images.

Shaping the future of Nuclear Imaging

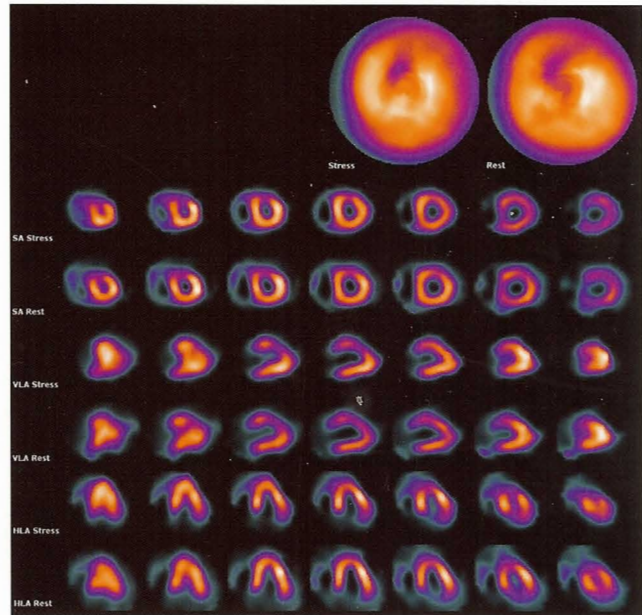
# Attenuation Corrected WBR Cardiac Imaging

The Ultimate Field Upgrade for WBR-based Myocardial Perfusion SPECT: Improved Accuracy, Improved Care, Improved Efficiency!

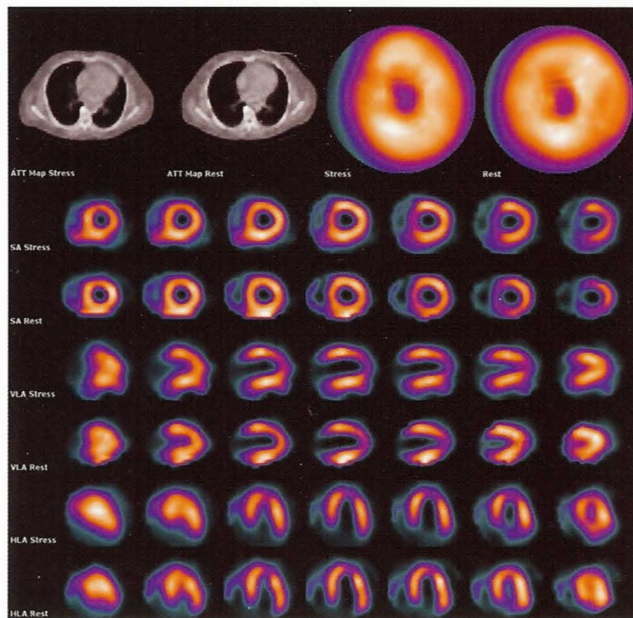


Attenuation Corrected and Scatter Corrected (ACSC) half-time rest/stress WBR images

79-year-old female (158 cm, 80 kg.) referred for post-PTCA evaluation. Half-time WBR with ACSC delivers high-quality, artifact-free images. Patient diagnosis: normal.

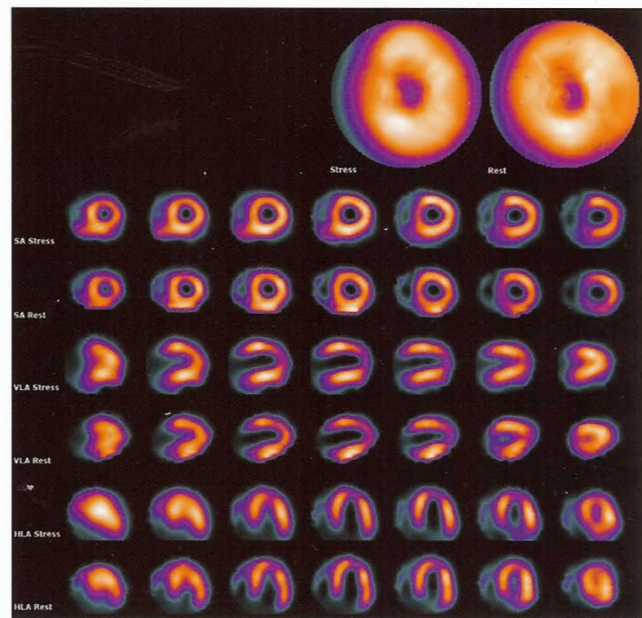


Non-Corrected (NC) half-time rest/stress WBR images



ACSC quarter-time rest/stress WBR images

58-year-old male (165 cm, 78 kg.) referred for post-PTCA evaluation. Quarter-time WBR with ACSC delivers good image quality. Patient diagnosis: mild hypoperfusion in latero-apical wall.



NC quarter-time rest/stress WBR images

Images courtesy of S. Maugeri Foundation IRCCS, Veruno, Italy.

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**UltraSPECT**  
Wide-Beam Molecular Imaging