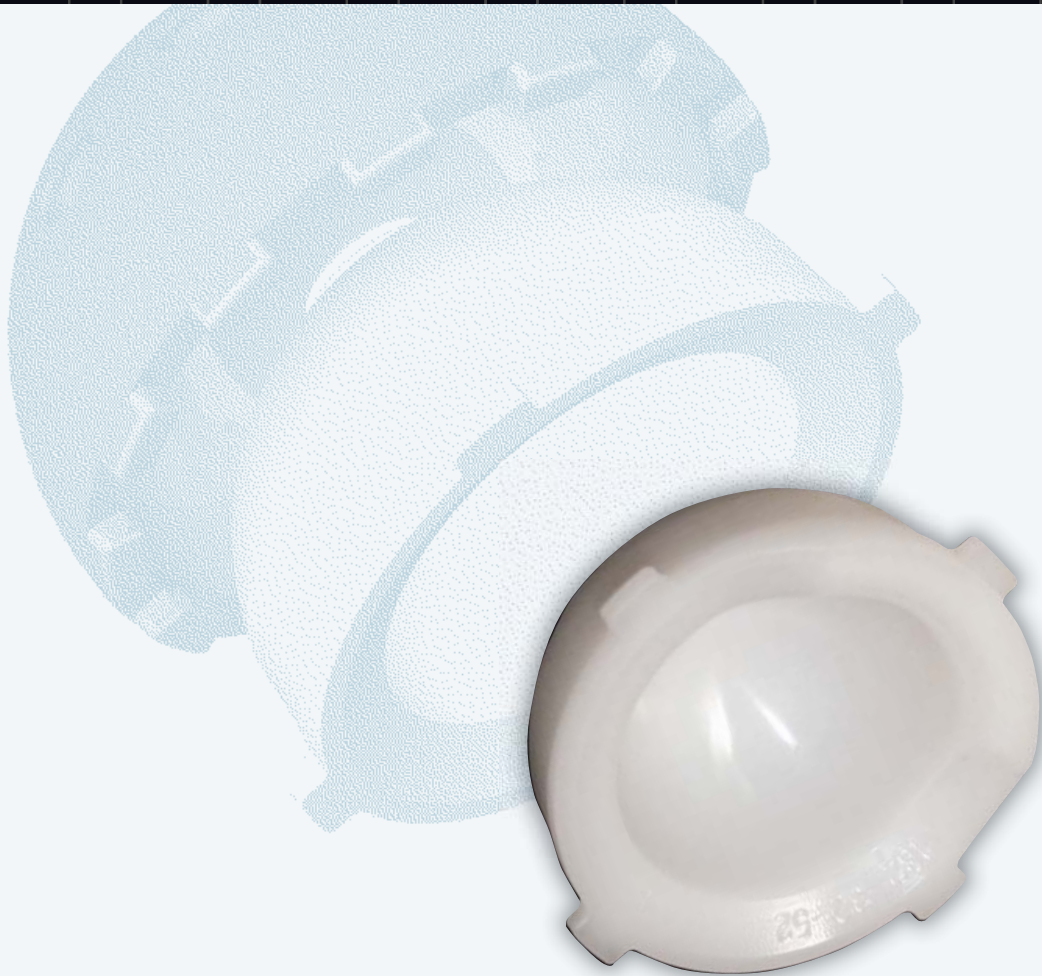
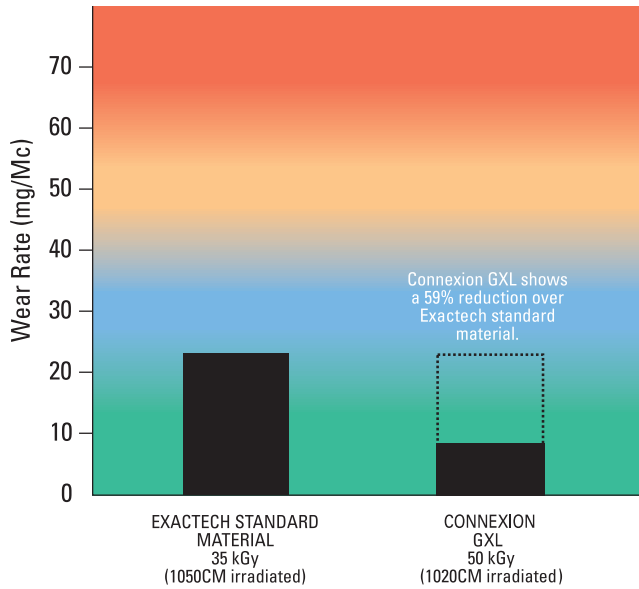


CONNEXION GXL[®]
ENHANCED POLYETHYLENE



Connexion GXL® enhanced polyethylene acetabular liners provide a low wear rate while maintaining an appropriate level of fracture toughness.

Hip Simulator Wear Rates*



Incidence of Lysis

Zone 1	No lysis, 9 hips, 0%
Zone 2	Lysis in 9 of 21 hips, 43%
Zone 3	Lysis in 8 of 10 hips, 80%
Zone 4	Lysis in 8 of 8 hips, 100%

Volumetric Wear (Est.)

0 - 20mg/Mc
20 - 40mg/Mc
40 - 60mg/Mc
> 60mg/Mc

FIGURE 1

Hip simulator studies show a 59 percent reduction with Connexion GXL over Exactech standard material in wear rate with sterilization dose.^{1,2,3,4}

UHMWPE Fracture Toughness: 3-Point Bend "J-Integral" (10x20x90mm Specimens)*

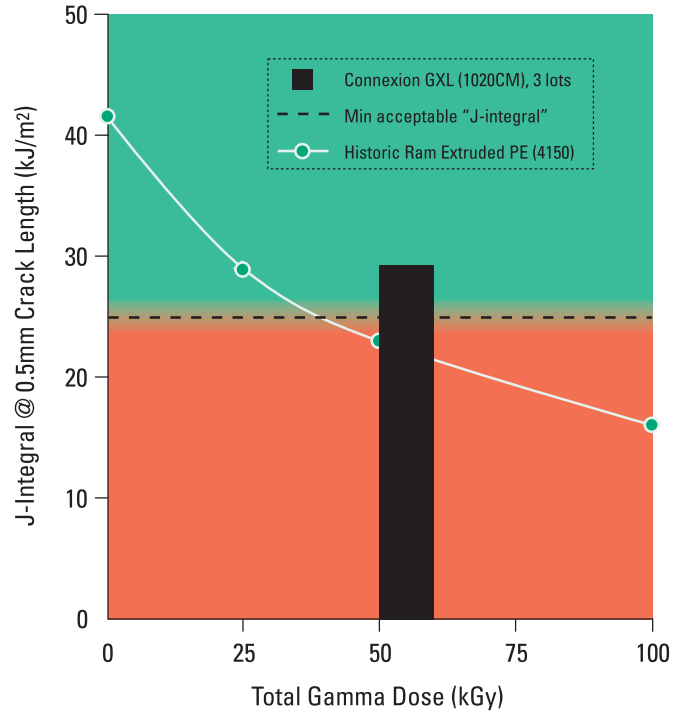


FIGURE 2

Fracture toughness results: Compression-molded Connexion GXL exceeds the minimum acceptable "J-integral".

Connexion GXL Overview

Connexion GXL® uses two split-precision irradiation doses of 25kGy each for a total of 50kGy of irradiation utilizing compression-molded UHMWPE. This process provides reduced wear by 59 percent over the clinically successful, standard Exactech polyethylene while maintaining an acceptable level of fracture toughness.

Connexion GXL is offered in a wide variety of options in Exactech's acetabular systems, including the Novation® Crown Cup® and AcuMatch® A-Series. Connexion GXL complements standard material acetabular liners. Options include a broad range of I.D.s and face configurations to meet the patient demands often faced in primary and revision hip arthroplasty.

1. **McKellop H, Shen FW, Lu B, Campbell P, Salovey R.** Development of an extremely wear-resistant ultra high molecular weight polyethylene for total hip replacements. *J Orthop Res.* 1999;17(2):157-67.

2. **Greer KW, King RS, Chan FW.** The effects of raw material, irradiation dose, and irradiation source on crosslinking on UHMWPE. Crosslinked and Thermally Treated Ultra-High Molecular Weight Polyethylene for Joint Replacements. *ASTM STP 1445.* 2002;209-220.

3. TS-2005-025. Comparison of the wear of current, research and traditional polyethylene cup. Data on file at Exactech.

4. TS-2007-028. Summary of testing for AcuMatch A-Series Acetabular Liners incorporating Connexion GXL Ultra-High Molecular Weight Polyethylene (UHMWPE). Data on file at Exactech.

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