

The Soteria



BIOMEDICAL SOLUTIONS

The World's First Lead Apron Supporting Exoskeleton

**Only
Weights
3.3 lbs!**



Why the Soteria?

- Fits under **ANY** existing lead apron to remove loading from the shoulders
- Transfers apron loading from the shoulders to the hips, **ELIMINATING** back and neck pain
- As simple and quick to put on and take off as a backpack
- Permits full range of motion allowing operating room staff to do their jobs

**Compatible
with *ANY*
existing lead
apron!**

Defining Characteristics of The Soteria



1

Contoured Back Plate

- Shown in **blue**
- 12K carbon fiber
- Dimensions: 498.29 mm by 380 mm
- Weighs 1.4 lbs

2

Bracket

- Shown in **red**
- 3D printed using Verbatim PLA
- Dimensions: 150 mm by 75 mm
- 4 sets of screw holes enabling 3.5 in of adjustability

3

The Hip Belt

- Shown in **pink**
- Supplied by Osprey Packs, Inc.
- Padded for comfort
- Adjusts to fit any waist sizes from 29-55 in

4

The Shoulder Straps

- Shown in **black**
- Supplied by Osprey Packs, Inc.
- Padded for comfort
- Adjusts to fit any size torso

How to Use the Soteria



Put on the Soteria like a backpack, fasten the hip belt, tighten, fasten the chest strap, tighten.



Put on your existing lead apron as you normally would, ensuring it rests on the Soteria.

Radiation Protection Market

North American radiation protection aprons market is projected achieve a **CAGR of 5.27%** from 2019 to 2024.



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