Aspen® Cervical Collars minimize skin breakdown while providing substantial motion restriction. The structural elements of the collars have been designed to spread support across broad contact surfaces thereby eliminating “hot-spots” that can cause decubitus ulcers. Research has proven that this design enables the collar to maintain skin contact pressures well below the capillary closing threshold.

The motion restriction provided by the Aspen Collar has been scientifically evaluated. Utilizing videofluoroscopy, researchers have documented both the translation and angulation of each vertebral segment through the entire range of motion. Results show the Aspen system to be unsurpassed in its ability to safeguard the patient.

The Aspen® Cervicothoracic Bracing System™ provides a fully integrated approach for quantifiable motion restriction of cervical spine patients. Physicians are now able to prescribe patient therapies based upon the needs defined at specific vertebral levels to ensure the best possible outcomes.

By incorporating design elements that allow the Aspen System to be “stepped down” from a 4 post CTO, to a 2 post model and then to a stand alone collar, it is now possible to tailor the degree of motion restriction to the specific needs of the patient. And, because no ferrous metal is used, the brace is MRI compatible.

Utilizing videofluoroscopic technology, university researchers and practicing clinicians have quantified cervical motion restriction at each vertebral segment. Data were compiled for each of the three different orthotic configurations. Numerical results are shown in the table to the right. These findings are graphically shown as insets on the photographs to the left. The gold wedges show motion allowed in flexion and extension when moving from the 4 post CTO, to a 2 post CTO, and finally an Aspen Collar.

### Effective Motion Restriction

- Aspen® Cervical Collars minimize skin breakdown while providing substantial motion restriction. The structural elements of the collars have been designed to spread support across broad contact surfaces thereby eliminating “hot-spots” that can cause decubitus ulcers. Research has proven that this design enables the collar to maintain skin contact pressures well below the capillary closing threshold.

- The motion restriction provided by the Aspen Collar has been scientifically evaluated. Utilizing videofluoroscopy, researchers have documented both the translation and angulation of each vertebral segment through the entire range of motion. Results show the Aspen system to be unsurpassed in its ability to safeguard the patient.

### MRI Multiple Orthotic Options

The Aspen® Cervicothoracic Bracing System™ provides a fully integrated approach for quantifiable motion restriction of cervical spine patients. Physicians are now able to prescribe patient therapies based upon the needs defined at specific vertebral levels to ensure the best possible outcomes.

By incorporating design elements that allow the Aspen System to be “stepped down” from a 4 post CTO, to a 2 post model and then to a stand alone collar, it is now possible to tailor the degree of motion restriction to the specific needs of the patient. And, because no ferrous metal is used, the brace is MRI compatible.

- Utilizing videofluoroscopic technology, university researchers and practicing clinicians have quantified cervical motion restriction at each vertebral segment. Data were compiled for each of the three different orthotic configurations. Numerical results are shown in the table to the right. These findings are graphically shown as insets on the photographs to the left. The gold wedges show motion allowed in flexion and extension when moving from the 4 post CTO, to a 2 post CTO, and finally an Aspen Collar.
Aspen® Replacement Pads are all about comfort. Dense, clickable foam offers superior cushioning to other leading collars and is your best defense against skin breakdown. While the two-tone color scheme provides insurance against improper pad replacement, the gray, nappy surface makes a great bond with the hook velcro inside the collar to maintain alignment and eliminate migration.

The white cotton, hypoallergenic contact surface draws fluids through itself and into the pads to minimize moist contact surfaces where problems can begin. And, because the patient contact side is white, Aspen pads clearly show areas where fluid drainage, or soiling has occurred so it does not go unattended.

Collars can be purchased alone and then used with extra pads or in “sets” with the extra pads already included. By utilizing these options health care professionals can keep patients comfortable and minimize skin breakdown problems when pads are being washed or become too soiled to use.

References:

Complete Infant & Pediatric Collar Line

Better Patient Outcomes

Innovative Patient Care

you can count on!

- Comfort for Compliance
- Extensive Customer Support
- Better Patient Outcomes

Without Skin Breakdown

Aspen’s unique Cushion Flex Tabs™ allow the collar to conform to each patient as it is tightened for a true custom fit. Tightening the Occipital Support Strap™ further customizes the collar by creating an adjustable, three dimensional “shell” that cradles the back of the head. Comfort is further enhanced by hypoallergenic, cotton-lined replacement pads that cushion the interface between the “shell” of the collar and the tender skin surface of patients. This attention to comfort results in better patient compliance.

Customer training is a top priority. Local representatives and in-service nurse educators work closely with facilities to reinforce proper use and ongoing care. When coupled with a comprehensive protocol that includes cervical spine clearance procedures, proper sizing and application, as well as regular hygienic care, Aspen Cervical Collars have been documented to eliminate, or dramatically reduce, collar related skin breakdown,

while providing unimpared motion restriction.

Comfortable by Design

Aspen Replacement Pads are all about comfort. Dense, clickable foam offers superior cushioning to other leading collars and is your best defense against skin breakdown. While the two-tone color scheme provides insurance against improper pad replacement, the gray, nappy surface makes a great bond with the hook velcro inside the collar to maintain alignment and eliminate migration.

The white cotton, hypoallergenic contact surface draws fluids through itself and into the pads to minimum moist contact surfaces where problems can begin. And, because the patient contact side is white, Aspen pads clearly show areas where fluid drainage, or soiling has occurred so it does not go unattended.

Perform Under Pressure

Aspen Cervical Collars have been evaluated for pressure created at the surface of the patient’s skin. Utilizing a force sensitive pressure mapping system, readings were taken across the entire contact surface of the results are shown in the images to the right.

To further reduce localized pressure, an Occipital Support Strap™ allows you to create compound curves to better follow the contours of the occiput. To create these curves, simply peel back the strap, tighten as needed and secure for a contour fit.

Fit Patients and Their Needs

A special “Large Back” allows for proper fitting of extra heavy, or fluid resuscitated patients while an optional “Small Back” panel can be used to minimize contact surfaces on patients requiring prolonged recovery time in a supine position.

Collars can be purchased alone and then used with extra pads or in “sets” with the extra pads already included. By utilizing these options health care professionals can keep patients comfortable and minimize skin breakdown problems when pads are being washed or become too soiled to use.

Innovative Patient Care

© 2002 Aspen Medical Products, Inc. All Rights Reserved. Revised 12/04

Customers: 800-295-2776 • 949-681-0200

Medical Products, Inc.
6481 Oak Canyon, Irvine, CA 92618