

Design of spinal brace shape classification

Pavel Cerny ^{1,3)}, Jana Drnkova ^{2,3)}, Otto Kott ¹⁾, Stefano Negrini ⁴⁾

1) Faculty of Health Care Studies, West Bohemia University, Pilsen, Czech Rep.

2) Faculty of Physical Education and Sport, Charles University, Prague, Czech Rep.

3) ORTOTIKA comp., Prague, Czech Rep.

4) Physical and Rehabilitation Medicine, University of Brescia, Italy

principle of reversibility – approximately

shape (design) classification: **Aa.En.Ssm-t.Crvd.Ov**

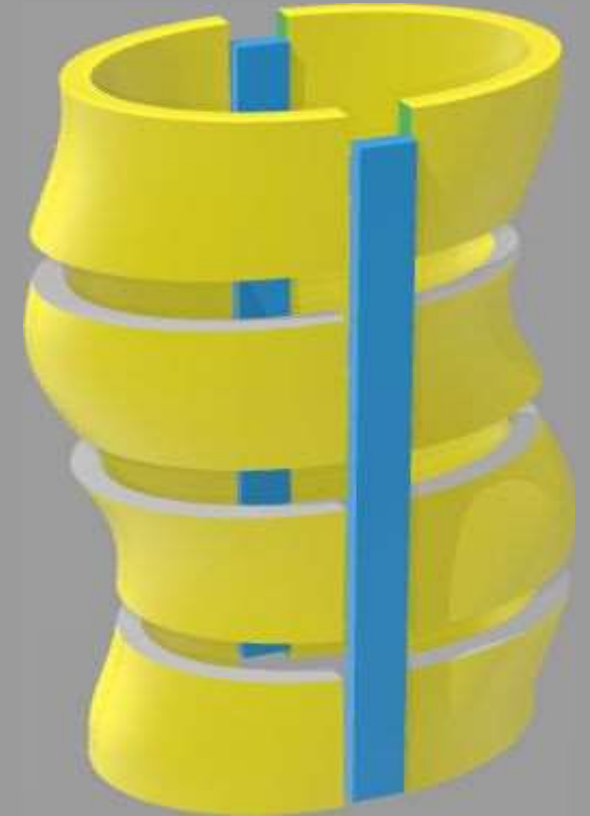
asymmetry

elongation

segmentation

rigid splints

ventral opening



Final proposed formula
for spinal brace shape classification:

Ax.Exxx.Sxxx.Cxxx.Ox

Asymmetry in frontal plane

Elongation of brace contour

Segmentation (cuts)

Components

Opening of the brace

**with other main spinal brace criterion
each of classification formula is unique**