Blueprints for the pattern specific brace treatment of patients with scoliosis taking into consideration the correction principles of Chêneau and the patterns of the augmented classification of Lehnert-Schroth

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A detailed description of the key patterns can be found at:


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3-curve with hip prominence (3CH)

Example of treatment

Correction from 50° to 16° in the 3CH-Chêneau light® brace. Such in-brace correction effects are only possible when the voids opposite to the corrective movement are provided.

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Example of treatment

13-year old girl with 30° thoracic and 22° lumbar in the Chêneau light® brace. Mirroring of the deformity in the brace is visible. In the Chêneau light® treatment for the 3C pattern we use the functional 3-curve brace with augmentation of the lumbar pad.
33° overcorrected to -12°; after 7 months in the Chêneau light® brace the boy had 23° and after another 6 months 11°. From this point on part time bracing until 1 year after voice change (8-12 hrs.) was planned!

Hypercompensation to the thoracic concave side is visible, however no maximum correction of the lumbar counter curve.
Example of treatment

Nearly 13-year old girl with a 29 / 29° Double Major scoliosis in the ScoliOlogiC® Chêneau light® 4C-brace corrected to 11 / 9° Cobb. Mirroring of both curvatures - thoracic and lumbar as well - in the brace is clearly visible!
13-year old girl in the short version of the ScoliOlogiC® Chêneau light® brace. This brace mirrors the deformity and restores the sagittal profile (to be seen on the right). The Chêneau light® 4CL-brace eventually in some cases can be used for thoracolumbar curves to the left with an apical vertebra at L1.
3-curve thoracolumbar (3CTL)

Example of treatment

14-year old girl, Risser 2, with 62° before bracing, now in the Chêneau light® 34°. This is a variation of a 3CH treatment, with a low level thoracic shell in a thoracolumbar curve to the right with an apex at Th 12. Many of the thoracolumbar curves however, do need a custom design, because the prefabricated parts do not always fit well.