

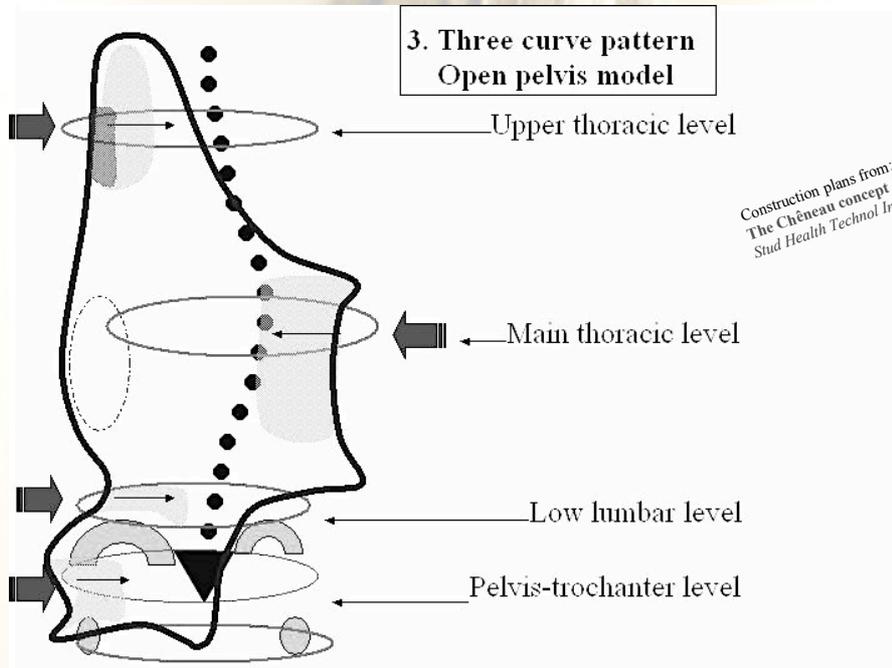
**Blueprints for the pattern specific brace  
treatment of patients with scoliosis taking  
into consideration the correction principles of  
Chêneau and the patterns of the augmented  
classification of Lehnert-Schroth**

*Hans-Rudolf Weiss, MD*

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

*Hans-Rudolf Weiss: Befundgerechte Physiotherapie bei Skoliose.  
3rd. Edition, Pflaum, Munich 2010*

# 3-curve with hip prominence (3CH)

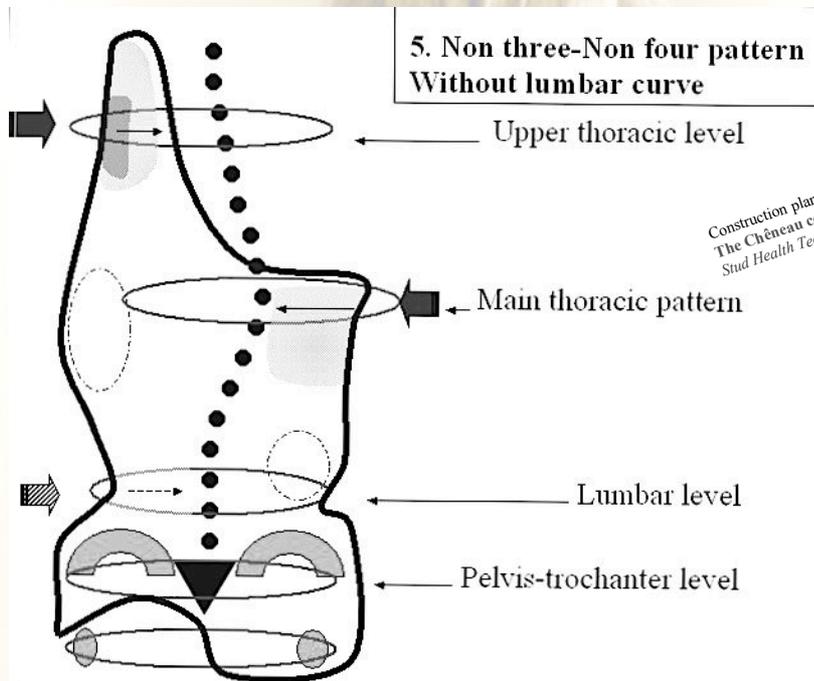


## Example of treatment



*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.*

## 3-curve balanced (3C)



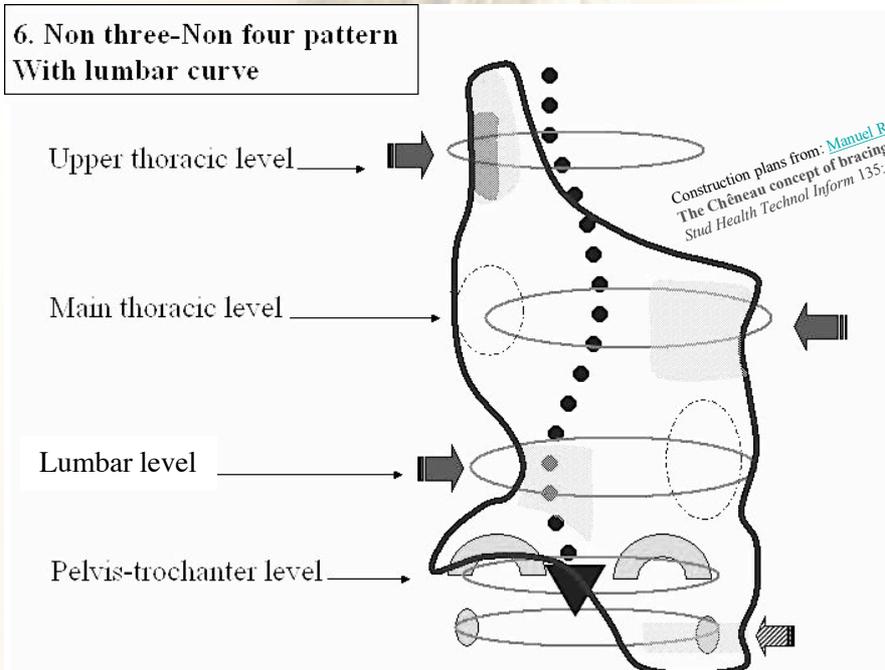
Construction plans from: [Manuel Rigo, Hans-Rudolf Weiss \(2008\)](#)  
The Chêneau concept of bracing—biomechanical aspects.  
Stud Health Technol Inform 135: 303-319

### 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.*

# 3-curve with long lumbar curve (3CL)

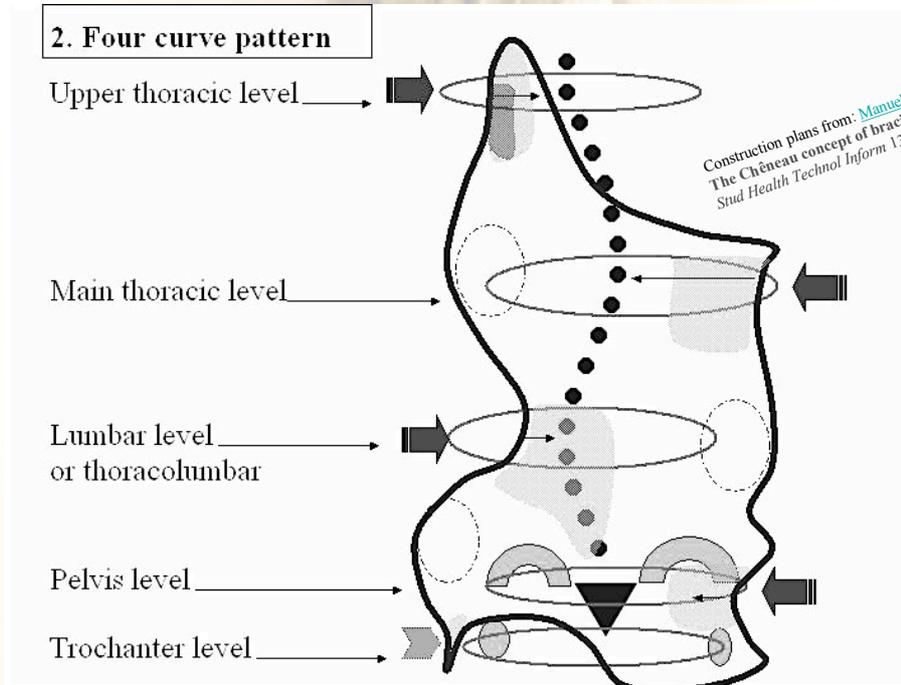


## Example of treatment

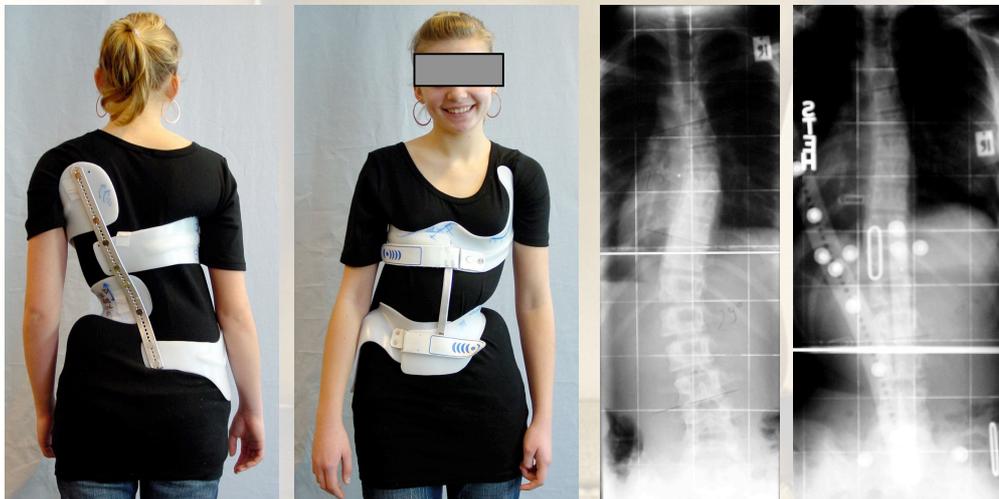


*33° overcorrected to - 12°; after 7 months in the Chêneau light® brace the boy had 23° and after another 6 months 11°. From this point on part time bracing until 1 year after voice change (8-12 hrs.) was planned!  
Hypercompensation to the thoracic concave side is visible, however no maximum correction of the lumbar counter curve.*

# 4-curve double major (4C)



## Example of treatment

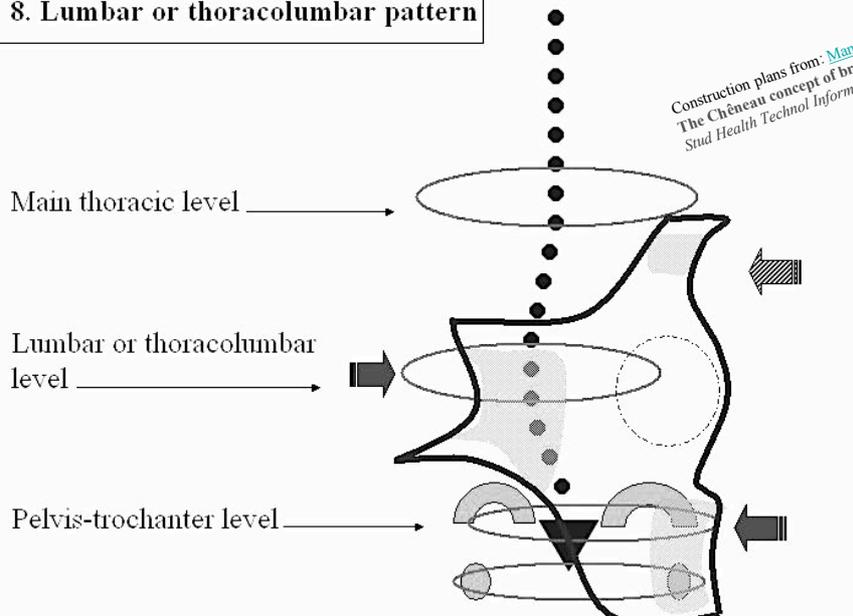


*Nearly 13-year old girl with a 29 / 29° Double Major scoliosis in the ScoliOlogiC® Chêneau light® 4C-brace corrected to 11 / 9° Cobb. Mirroring of both curvatures - thoracic and lumbar as well - in the brace is clearly visible!*

# 4-curve single lumbar (4CL)



## 8. Lumbar or thoracolumbar pattern

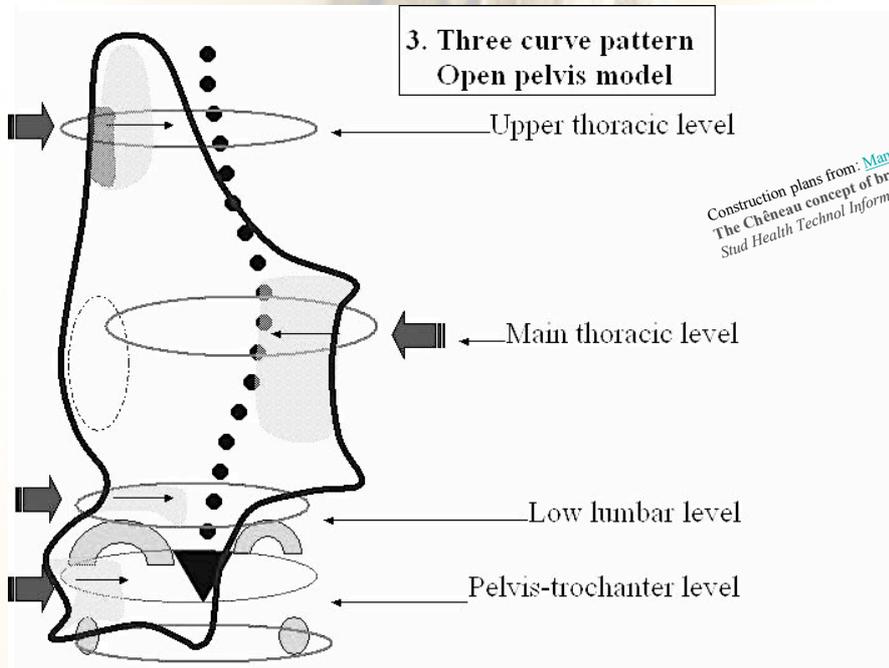


## Example of treatment



*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  $62^\circ$  before bracing, now in the Chêneau light<sup>®</sup>  $34^\circ$ . 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.