

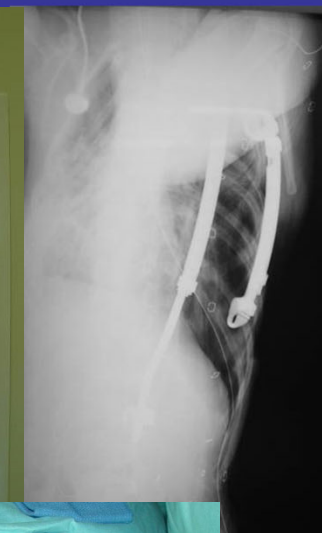
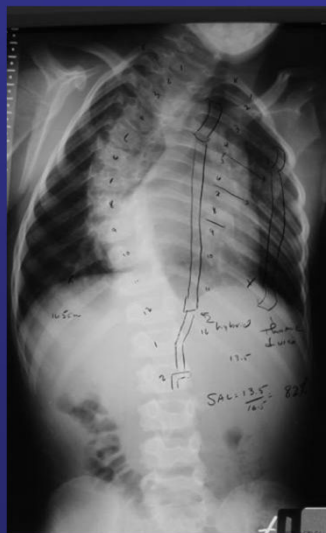
Congenital Spine Deformities VEPTR Rebuttal

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VEPTR





VEPTR

United States Patent [19]
Campbell, Jr.

US005261908A
[11] **Patent Number:** **5,261,908**
[45] **Date of Patent:** **Nov. 16, 1993**

[54] **EXPANDABLE VERTICAL PROSTHETIC RIB**

[56] **References Cited**
U.S. PATENT DOCUMENTS

[76] **Inventor:** Robert M. Campbell, 415 Street
which is adjustable in length through relatively minor surgical procedures subsequent to initial implantation along with methods for using same in the treatment of chest wall deformities and scoliosis and in immobilizing

864,329 8/1907 North 403/108

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[86] **PCT No.:** **PCT/US90/02018**
§ 371 Date: **Oct. 21, 1991**
§ 102(e) Date: **Oct. 21, 1991**

Primary Examiner—Randall L. Green
Attorney, Agent, or Firm—Gunn, Lee & Miller

[57] **ABSTRACT**

Applicant's invention includes a prosthetic rib (10) which is adjustable in length through relatively minor

In satisfaction of other stated objectives, Applicant's just-described device and an alternative method for use associated therewith serves to alter the relative orientation of ribs to which such device is attached and thereby modify the orientation of the associated vertebrae as well as the vertebrae therebetween in the treatment of scoliosis.

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Restriction on lung growth



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Constriction on chest mobility

̄ fused \sqrt chest

Mobile ? chest



Expansion thoracoplasty

- Ideal patient
 - <6 years of age
 - Congenital scoliosis
 - Rib fusion or absence
- Directly lengthen and expand the constricted chest wall and indirectly correct the scoliosis



VEPTR Registry Database

Smith, et.al., 2004 SRS Meeting, Buenos Aires

- Deformity
 - Kyphosis increase!
- 455 adverse events in 154 patients(60%)
 - 75% minor
 - 5 life threatening or fatal

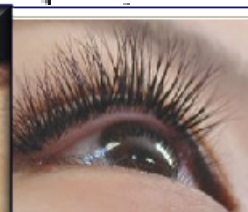
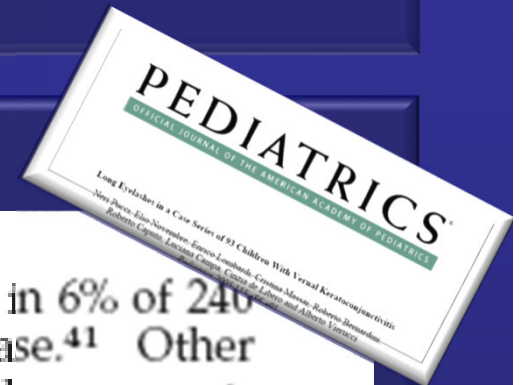
Primary effect vs. secondary benefit

- Streptomycin

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tiation, causing trichomegaly.

Trichomegaly was described recently in 6% of 240 patients with congenital heart disease.⁴¹ Other causes of elongation of eyelashes have been reported⁴²: porphyria; malnutrition; anorexia nervosa; hypothyroidism; pregnancy; and medications such as diazoxide, streptomycin, minoxidil, phenytoin, pso-



0.20mm Extra Thick
Global Y-Lashes

\$35.00 US

Length 7mm





Right instruments





Conclusion

- If chest cage is already sick
 - Chest implant
- If not...
 - Please save the chest cage mobility!
- SPINE IMPLANT FOR SPINE DEFORMITY!!

