



脊柱侧弯对呼吸功能的影响

郝冉¹, 吴志宏², 韩江娜^{1*}

中国医学科学院 北京协和医学院 北京协和医院 ¹呼吸科 ²骨科, 北京 100730

Scoliosis on Pulmonary Function

HAO Ran¹, WU Zhi hong², HAN Jiang na^{1*}

¹Department of Pneumology, ²Department of Orthopaedics, PUMC Hospital, CAMS and PUMC, Beijing 100730, China

摘要

参考文献

相关文章

Download: [PDF \(759KB\)](#) [HTML 1KB](#) Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 脊柱侧弯是引起儿童脊柱和胸廓畸形的常见疾病, 不但影响患儿的外形, 还能引发不可逆的肺功能损害, 甚至导致呼吸衰竭。本文回顾了脊柱侧弯对呼吸功能影响的相关文献, 认为脊柱侧弯对呼吸功能的损害主要表现在影响肺脏生长发育, 限制胸廓运动, 导致通气功能和气体交换功能障碍。呼吸衰竭主要发生在早发型或妊娠后期的侧弯患者。手术可以矫正畸形并阻止侧弯的进展, 但经胸腔手术对肺功能有一定损害。未经胸腔的手术阻止了肺功能的恶化, 但不能促进肺脏的生长发育。因此, 手术矫形时应尽量保护肺功能。

关键词: 脊柱侧弯 呼吸功能 手术 妊娠

Abstract: ABSTRACT: Scoliosis is a common disease in children that causes deformity of spine and thoracic cage. The deformity not only affects the appearance, but also leads to irreversible impairment of lung function and respiratory failure in severe cases. This systematic review on publications over past 50 years demonstrates that scoliosis impairs growth and development of lungs, limits chest wall movement, and results in restrictive ventilation defect and gas exchange dysfunction. Respiratory failure occurs primarily in early-onset scoliosis and/or during latter half of gestation. Surgery corrects deformity and may slow down its progression. However, invasive procedure itself impairs lung function. Non invasive procedures prevent the deterioration of lung function rather than promoting growth and development of lungs. As a consequence, reserve of pulmonary function is recommended when surgical intervention is considered.

Keywords: [scoliosis](#) [pulmonary function](#) [surgery](#) [pregnancy](#)

Received 2010-07-02:

Fund: International S&T Cooperation Program of China (2006DFA31450, Key-program of "Innovative Drugs" of the Ministry of Science & Technology of China (2009ZX09302-004, and Central Public-interest Scientific Institution Basic Research Fund (IMBF-200902)

Corresponding Authors: HAN Jiang na Email: janet_han2000@hotmail.com

About author: 010-65295051

引用本文:

郝冉, 吴志宏, 韩江娜. 脊柱侧弯对呼吸功能的影响[J] 中国医学科学院学报, 2011, V33(1): 102-106

HAO Ran, WU Zhi hong, HAN Jiang na. Scoliosis on Pulmonary Function[J] CAMS, 2011, V33(1): 102-106

链接本文:

http://www.actacams.com/Jwk_yxkxy/CN/10.3881/j.issn.1000-503X.2011.01.023 或
http://www.actacams.com/Jwk_yxkxy/CN/Y2011/V33/I1/102

Service

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [Email Alert](#)
- ▶ [RSS](#)

作者相关文章

- ▶ [郝冉](#)
- ▶ [吴志宏](#)
- ▶ [韩江娜](#)