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**Name of Journal:** *World Journal of Orthopedics*

**Manuscript NO:** 48655

**Manuscript Type:** SYSTEMATIC REVIEW

**Magnetically controlled growing instrumentation for early onset scoliosis: Caution needed when interpreting the literature**

Shaw KA *et al.* Complications with MCGR

## Abstract

### BACKGROUND

Magnetically controlled growing rods (MCGR) are a novel treatment option for early onset scoliosis (EOS). Although the complication profile with MCGR use has been reviewed, these reviews do not take into account important implants modifications.



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Magnetically controlled growing instrumentation for early onset scoliosis: Caution



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### Magnetic controlled growing rods for early-onset scoliosis ...

<https://www.sciencedirect.com/science/article/pii/S1529943016002916>

The use of magnetic controlled growing rod (MCGR) system in early-onset scoliosis following failure of conservative treatment such as bracing or casting is now well recognized , , . **Magnetic controlled growing rods have gained popularity over the recent years because control of scoliosis is achieved without the need for invasive surgical lengthening.**

Cited by: 27

Author: Kar Hao Teoh, Daniel M.G. Winson, Stua...

Publish Year: 2016

### Magnetically controlled growing rods in the treatment of ...

[https://www.researchgate.net/publication/317270393\\_Magnetically\\_controlled\\_growing...](https://www.researchgate.net/publication/317270393_Magnetically_controlled_growing...)

Studies were included if patients with early-onset scoliosis (scoliosis diagnosed before **10 years of age**) underwent implantation of magnetically controlled growing rods with a minimum of **2-year** ...

### Magnetically Controlled Growing Rods for the Management ...

[https://www.researchgate.net/publication/280219302\\_Magnetically\\_Controlled\\_Growing...](https://www.researchgate.net/publication/280219302_Magnetically_Controlled_Growing...)

Request PDF on ResearchGate | **Magnetically Controlled Growing Rods for the Management of Early-onset Scoliosis:** A Preliminary Report | A new method for the management of **early-onset scoliosis** ...

### Growing rod concepts: state of the art - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3616472>

May 08, 2012 · Growing rods seem to be a viable treatment option in early-onset scoliosis associated with **SMA**. Fig. 3 The patient in this figure is a 74-month-old girl with infantile idiopathic scoliosis whose standing height at the commencement of growing rod treatment was 115 cm. a Preoperative and immediately postoperative standing X-rays after index surgery. ...

Cited by: 20

Author: Muharrem Yazici, Z. Deniz Olgun

Publish Year: 2013

### Comparison of single and dual growing rods in the ...

<https://josr-online.biomedcentral.com/articles/10.1186/s13018-016-0413-y> ▾

Jul 12, 2016 · In the literature, the term “early onset” has been used to indicate scoliosis before **5 years old** of all etiologies, while “late onset” indicates scoliosis after age **five** [19]. The distinction is made because of the difference in spine growth and cardiopulmonary compromise before ...



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## Magnetically-Controlled Growing Rods for Early Onset ...

[https://www.researchgate.net/publication/298338969\\_Magnetically-Controlled\\_Growing...](https://www.researchgate.net/publication/298338969_Magnetically-Controlled_Growing...)

**Magnetically-Controlled Growing Rods for Early Onset Scoliosis: A Multicenter Study of 23 Cases with Minimum 2 Years Follow-Up.** Study design: retrospective OBJECTIVE.: To report the 2-year clinical and radiographic results of patients treated with **magnetically controlled growing rods** (MCGR). Summary of background data: MCGR for **early-onset**...

## Magnetic controlled growing rods for early-onset scoliosis ...

<https://www.sciencedirect.com/science/article/pii/S1529943016002916>

**Materials and methods.** We reviewed our first cohort of patients with **early-onset scoliosis** treated with **magnetic controlled growth rods** (MAGEC system, Ellipse Technologies, Inc) who were operated in 2011. This case series consisted of 8 patients, with a minimum of 44 months' follow-up and average of 48 months (44–55 months).

**Cited by:** 23

**Author:** Kar Hao Teoh, Daniel M.G. Winson, Stu...

**Publish Year:** 2016

## Magnetically controlled growing rods in the treatment of ...

[https://www.researchgate.net/publication/317270393\\_Magnetically\\_controlled\\_growing...](https://www.researchgate.net/publication/317270393_Magnetically_controlled_growing...)

**Magnetically controlled growing rods in the treatment of early-onset scoliosis: a note of caution**

Article in Bone and Joint Journal 99-B(6):708-713 · June 2017 with 43 Reads DOI: 10.1302/0301 ...

## Comparison of single and dual growing rods in the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4942973>

In the literature, the term “early onset” has been used to indicate scoliosis before 5 years old of all etiologies, while “late onset” indicates scoliosis after age five [19]. The distinction is made because of the difference in spine growth and cardiopulmonary compromise before and after age five [20].

**Cited by:** 2

**Author:** Gui-Jun Xu, Xin Fu, Peng Tian, Jian-xio...

**Publish Year:** 2016

## Growing Rods Are an Effective Fusionless Method of ...

[https://journals.lww.com/pedorthopaedics/Fulltext/2017/12000/Growing\\_Rods\\_Are\\_an...](https://journals.lww.com/pedorthopaedics/Fulltext/2017/12000/Growing_Rods_Are_an...)

**Growing rods (GRs)** have been used in **early-onset scoliosis** (EOS) effectively. The purpose of this study was to evaluate GR use in NF1. **Methods:** Retrospective data collection was performed from a **multicenter** EOS database with additional patients from our own institute. Each patient had a genetic **diagnosis** of NF1 and was treated with GR.



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Minimum 2-Year Experience with Magnetically Controlled ...

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Magnetically Controlled Growing Rod in Early-Onset Scoliosis ...

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作者: B Yilmaz - 2016 - 被引用次数: 10 - [相关文章](#)

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