MAGEC™ Remote Control Technology for the Treatment of Spine Deformities

Ellipse Technologies, Inc., an innovative company focused on developing implantable technology to treat a broad spectrum of spinal and orthopedic applications, has developed a novel treatment for abnormal curvature of the spine. The company’s initial spinal products address the treatment of scoliosis and focus on the children who suffer from the debilitating effects of this common and challenging spine disease.

MAGEC (MAGnetic Expansion Control) is an adjustable growing rod that utilizes a remote control to non-invasively lengthen the device. Following a minimally invasive procedure to implant the MAGEC Rod, the device can be lengthened, or retracted, non-invasively by using the MAGEC ERC (External Remote Controller), thereby eliminating the need for additional unnecessary surgeries and increasing quality of life.

Product Benefits:
- Maximizes thoracic spine height without the need for multiple surgeries to lengthen the growing rod
- Non-invasive adjustment via remote control
- Bi-directional axial adjustment to a maximum of 48mm
- Minimally invasive surgery
- Single or dual rod construct
- Independent distraction capability on dual rod constructs

Published in The Lancet
Magnetically Controlled Growing Rods for Severe Spinal Curvature in Young Children: A Prospective Case Series.
The LANCET, April 19, 2012; doi:10.1016/S0140-6736(12)60112-3; Prof Kenneth Man-Chee Cheung MD et al. Clinical study focused on assessing the effectiveness and safety of a new magnetically controlled growing rod (MCGR) for non-invasive outpatient distractions.

Not available for sale in the United States.
MAGEC is a system which includes proprietary implants (growing rods) and the External Remote Controller (ERC). Magnets outside the body contained in the ERC device communicate with magnets of the implanted rods.

- The device works with standard pedicle screws and hooks for increased ease of use.
- The ERC is a portable, hand held unit that uses permanent magnets to automatically modify the length of the growing rod through the touch of a button. The amount of distraction/retraction is visible immediately on the MAGEC ERC display module.

MAGEC eliminates the need for multiple surgeries to lengthen the growing rod. By using the implant with the ERC, the device can be adjusted frequently, through a non-invasive approach in an outpatient setting.

Visit www.ellipse-tech.com to learn more about our exciting technology.

Product Reference Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>No.</th>
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<tbody>
<tr>
<td>Rods for Dual Rod Use</td>
<td>4.5 mm standard rod with 4.5 mm long extension</td>
<td>RA002-4545SL</td>
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<tr>
<td></td>
<td>4.5 mm offset rod with 4.5 mm long extension</td>
<td>RA002-4545SLR</td>
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<td>5.5 mm standard rod with 5.5 mm long extension</td>
<td>RA002-5555SL</td>
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<td>Rods for Single Rod Use</td>
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<td></td>
<td>5.5 mm standard rod with 5.5 mm long extension</td>
<td>RA002-5555SL</td>
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<tr>
<td>Non-Sterile Accessories</td>
<td>External Remote Controller (ERC2)</td>
<td>EAD-M1</td>
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