Neuromodulation for Migraine

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Neuromodulation

• This is the alteration of nerve activity through applying a stimulus to specific sites throughout the body
Types of Neuromodulation

- Deep brain stimulation
- Transcutaneous SONS
- Implanted SONS
- Sphenopalatine ganglion stimulation
- Vagal nerve stimulation
- TMS
- ONS
FDA approved device
Cefaly Device/ Supraorbital Nerve Stimulator
Gammacore Device
Nerivio Device
What can you expect from a device

## A Guide to Neuromodulation Devices for Migraine

<table>
<thead>
<tr>
<th>BRAND NAME</th>
<th>CEFALY</th>
<th>Nerivio™</th>
<th>gammaCore Sapphire™</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANUFACTURER</td>
<td>CEFALY Technology</td>
<td>Theranica</td>
<td>electroCore</td>
</tr>
<tr>
<td>INDICATION <em>unless otherwise explained, indications are for patients 18+ years old</em></td>
<td>Acute and Preventive Treatment of Episodic Migraine</td>
<td>Acute Treatment of Episodic Migraine</td>
<td>Acute and Preventive Treatment of Migraine and Cluster</td>
</tr>
<tr>
<td>PRICE</td>
<td>$500 for a device Additional electrodes range from $25-$35 for more uses</td>
<td>$99 per device which holds 12 uses</td>
<td>$575 (24 stimulations/day for 31 days) Patients may be eligible for assistance up to $100 for 12 months. Cost-free options for veterans &amp; active military</td>
</tr>
<tr>
<td>EFFICACY <em>See individual websites for complete study results. Stats given for migraine only.</em></td>
<td>Acute: 79% of patients reported pain relief after 1 hr* Preventive: 38% of patients had at least a 50% reduction in migraine days</td>
<td>67% of patients achieve pain relief at 2 hours</td>
<td>Acute: 41% pain relief at two hours after 8 minutes of stimulation Preventive: 2.27 fewer migraine days</td>
</tr>
<tr>
<td>DELIVERY ADMINISTRATION</td>
<td>Acute: 1 hour as needed, on forehead Preventive: 20 mins. nightly</td>
<td>Start within 1 hour of migraine onset, on outer upper arm. Set intensity to a level that is strong but not painful and keep it at that setting for the 45 minute treatment</td>
<td>Acute: Two 2-minute stimulations at symptom onset, on neck. Can be repeated 20 mins. and 2 hours from start of 1st treatment. Preventive: 2 treatments (morning, mid-day and night) consisting of 2 consecutive two-minute stimulations daily</td>
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<tr>
<td>SIDE EFFECTS</td>
<td>Sedative effect during treatment session, sensitivity to the feeling of Cefaly on forehead, vasodilation and contact dermatitis.</td>
<td>Warmth, itching, tingling or mild pain in the arm, shoulders, or neck, muscle spasm, temporary numbness in the arm or hand</td>
<td>Application site discomfort, irritation, muscle twitching of face/head/neck resolving after treatment finishes</td>
</tr>
</tbody>
</table>
Thank you for your attention

• Any questions?