Cost-effective Analysis: Post-surgical Pain Control

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Post-surgical Pain Control

The control of pain is important to the overall recovery of the patient.
Pain Control Options

- Guided imagery
  - a mental process involving a sensory quality that is used therapeutically

- Hypnosis
  - the use of altered states of consciousness

- Biofeedback
  - a method using monitoring instruments to feed back to patients' physiological data that normally would not reach their conscious awareness
Similar Benefits

- Guided imagery
- Hypnosis
- Biofeedback

- Effective in pain management
- Low risk
- Increased patient satisfaction
- Reduced LOS
- Reduced use of post-surgical care
Costs

• Guided Imagery
  - $24,530.00 / yr ($122.08 / pt.)

• Hypnosis
  - $69,215.00 / yr ($351.25 / pt.)

• Biofeedback
  - $36,165.00 / yr ($182.57 / pt.)
Annual Total Costs

- Guided Imagery
- Hypnosis
- Biofeedback

Annual costs per procedure
Costs – Annual and Per Patient

![Graph showing costs for Guided Imagery, Hypnosis, and Biofeedback.](#)
## Impact on Price

<table>
<thead>
<tr>
<th>Procedure</th>
<th>(n)</th>
<th>Guided Imagery</th>
<th>Hypnosis</th>
<th>Biofeedback</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spinal fusion</td>
<td>111</td>
<td>+ 1.8%</td>
<td>+ 5.2%</td>
<td>+ 2.7%</td>
</tr>
<tr>
<td>Total Hip Replacement</td>
<td>83</td>
<td>+ 1.9%</td>
<td>+ 5.4%</td>
<td>+ 2.8%</td>
</tr>
<tr>
<td>Auto Hema Stem Cell Transplant</td>
<td>3</td>
<td>+ 0.2%</td>
<td>+ 0.5%</td>
<td>+ 0.2%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>197</td>
<td>Avg: + 1.3%</td>
<td>Avg: + 3.7%</td>
<td>Avg: + 1.9%</td>
</tr>
</tbody>
</table>
Cost Efficiency Analysis

- Shared costs per department
  - Guided Imagery
    - $8,177 / yr
  - Hypnosis
    - $23,072 / yr
  - Biofeedback
    - $12,055 / yr
Recommendations

The recommendations per the cost-efficiency analysis, assuming similar benefit of the three interventions compared, is clearly:

Guided Imagery