Acumed® Bone Graft Harvesting System

The Acumed Bone Graft Harvesting System facilitates safe, rapid harvest of morselized autogenous cancellous graft from the iliac crest, distal radius, and distal femur through a small skin incision. This compact bone graft harvesting system is designed to be easy to use and includes four drill size options, a power adapter fitting, a starting punch, and a removal key.

**Typical Bone Graft Applications**

- Arthroplasty
- Foot/Hand
- Maxillofacial
- Spine
- Trauma

Drill tip design morselizes cancellous bone during harvest
**Bone Graft Punch**
The punch is designed to create a starting point for the drill.

**Volume (cc per pass)**

<table>
<thead>
<tr>
<th>Drill Diameter</th>
<th>Volume (cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 mm Bone Graft Drill</td>
<td>0.5 cc</td>
</tr>
<tr>
<td>8 mm Bone Graft Drill</td>
<td>0.9 cc</td>
</tr>
<tr>
<td>10 mm Bone Graft Drill</td>
<td>1.6 cc</td>
</tr>
<tr>
<td>12 mm Bone Graft Drill</td>
<td>2.5 cc</td>
</tr>
</tbody>
</table>

**Hudson Fitting Adaptor**
Allows drill to be mounted.

**Bone Graft Extractor**
The bone graft removal paddle is engineered to remove the graft from the inside of the drill.

**Cutting Drill**
Each revolution of the drill cuts new cancellous bone and loads it into the body of the trephine.

**Removal Key**
The key disconnects the bone graft drill from the adapter.

**7 mm nonsterile drill with AO Quick Release (available separately)**
<table>
<thead>
<tr>
<th></th>
<th>Autograft with Acumed Bone Graft Harvester</th>
<th>Allograft (Cancellous Chips, Corticocancellous Wedge)(^1)</th>
<th>Synthetic Bone Graft Substitutes (e.g. Callos(^\circ) Bone Void Filler)(^1)</th>
<th>Osteoinductive Agents (e.g. DBM and rhBMP)(^1,2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osteoconductive</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Osteoinductive</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Osteogenic</td>
<td>☑</td>
<td></td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Clinical Evidence</td>
<td>+++</td>
<td>+</td>
<td>+</td>
<td>+++</td>
</tr>
<tr>
<td>Surgical Time &amp; Effort</td>
<td>Low–Med</td>
<td>Low</td>
<td>Low-Med</td>
<td>Low</td>
</tr>
<tr>
<td>Donor Site Morbidity</td>
<td>Low–Med</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Volume &amp; Handling</td>
<td>1cc+</td>
<td>5 cc+</td>
<td>3 cc+</td>
<td>5 cc+</td>
</tr>
<tr>
<td>Cost per cc</td>
<td>$</td>
<td>$</td>
<td>$$</td>
<td>$$$</td>
</tr>
<tr>
<td>Material Comparison</td>
<td>Advantages</td>
<td>Limitations</td>
<td></td>
<td></td>
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<tr>
<td>---------------------</td>
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</tbody>
</table>
| **Autograft**       | - Has all mechanisms of bone healing (Osteoconductive, osteoinductive, and osteogenic)  
- Optimal environment for bone fusion  
- Inexpensive  
- Gold Standard | - Bone graft quality variability  
- Limited supply  
- Additional surgical site  
- Post-op pain |
| **Allograft**       | - No donor site  
- Osteoconductive  
- Plentiful supply  
- Available in various forms | - Sourced from donor tissue  
- Variability in donor tissue  
- Disease transfer  
- Handling |
| **Synthetic Bone Graft Substitutes** | - No donor site  
- Autograft extender and enhancer  
- Physical properties highly reproducible  
- Sterile-packed | - Expensive  
- Variable resorption rates  
- Limited clinical evidence  
- Mechanical properties vary |
| **Osteoinductive Agents** | - Available in various forms  
- Can be used with BMAC  
- No donor site  
- Can regulate production and activity of growth factors | - Ectopic bone formation  
- Osteolysis  
- Expensive  
- Not osteogenic |
Distal Radius Surgical Technique*  
Anterior Ilium Crest Surgical Technique*  
Posterior Ilium Crest Surgical Technique*  

*For reference only. For full instructions, see the current Bone Graft Harvesting System Surgical Technique.
Graft Expulsion
Insertion of Graft Removal Paddle
Trephine Detachment
Drilling
References


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