MID LONGITUDINAL AXIS OF FEMORAL SHAFT

LONGITUDINAL AXIS OF PROSTHETIC STEM

ANGLE F

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MID LONGITUDINAL AXIS
OF FEMORAL SHAFT
# Microdensitometry - Calibration Studies

<table>
<thead>
<tr>
<th>name</th>
<th>immediate post op. density</th>
<th>5 year density ALSH</th>
<th>density March 1979</th>
<th>R hip raised 2.5 cm</th>
<th>L hip raised 2.5 cm</th>
<th>maximum dev. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freeman</td>
<td>0.939</td>
<td>0.942</td>
<td>0.981</td>
<td>0.967</td>
<td>0.923</td>
<td>+ 5.91</td>
</tr>
<tr>
<td>Newton</td>
<td>1.168</td>
<td>1.426</td>
<td>1.563</td>
<td>1.503</td>
<td>1.484</td>
<td>+ 5.05</td>
</tr>
<tr>
<td>Tolman</td>
<td>1.450</td>
<td>0.705</td>
<td>0.643</td>
<td>0.601</td>
<td>0.606</td>
<td>+ 6.53</td>
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<tr>
<td>Powell</td>
<td>1.337</td>
<td>0.927</td>
<td>0.934</td>
<td>0.974</td>
<td>0.924</td>
<td>- 4.28</td>
</tr>
</tbody>
</table>
HIP MECHANICS AFTER EXETER THR

$W = \frac{5}{6}$ body weight
A Study of the Radiological Appearance of the CALCAR FEMORALE after Total Hip Replacement using a Collarless Femoral Component

J. Black (Philadelphia)
A.L. Sew Hoy (Auckland)
A.J.C. Lee, R.S.M. Ling, S.S. Vangala (Exeter)
Changes in Bone Following Total Hip Replacement

*Remodeling
*Resorption
*Cavitation
*Cyst Formation
*Fragmentation
Summary of Radiographic Study Indicators of Structure and Anatomical Change

* Level of Surgical Section of Neck
* Thicknesses of Cortical Bone and Cement
* Calcar Quality (4 indices)
* Canal Width and Shape
* Cement Mantle Quality (6 indices)
* Biomechanical Measurements
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CONCLUSIONS