Periodontal ligament
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>enamel</td>
</tr>
<tr>
<td>D</td>
<td>dentine</td>
</tr>
<tr>
<td>PC</td>
<td>pulp cavity</td>
</tr>
<tr>
<td>RC</td>
<td>root canal</td>
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<tr>
<td>ACJ</td>
<td>amelo-cemental junction</td>
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<tr>
<td>PL</td>
<td>periodontal ligament</td>
</tr>
<tr>
<td>LD</td>
<td>lamina dura</td>
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</tbody>
</table>
Development
• Cells
  • Synthetic cells
    • Osteoblasts
    • Fibroblasts
    • Cementoblasts
  • Resorptive cells
    • Osteoclasts
    • Fibroclasts
    • Cementoclasts
Progenitor cells
Epithelial rests of Malassez
Epithelial Rests of Malassez
Periodontal connective tissue

Epithelial cell rests of Malassez
Mast cells
Macrophages
• Extra cellular substance
  • Fibers
    • Collagen
    • Oxytalan
  • Ground substance
  • Interstitial tissues
Periodontal Ligament
Transseptal Fibers
Alveolar Crest Fibers
Horizontal Fibers
Apical Fibers
Interradicular Fibers
Oxytalan Fibers
• Structures present in connective tissue
  • Blood vessels
  • Lymphatics
  • Nerves
  • Cementicles
Free Cementicle
• Functions
  • Supportive
  • Sensory
  • Nutritive
  • Homeostatic
Clinical Consideration