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CONTENTS:

• Caspase 9 Expression in Bone Marrow Stem Cell (BMSCs) culture in hypoxia condition.

• The periodontal health status on type 2 diabetes mellitus patients compared with non-diabetes mellitus patients based on GPl

• Periodontal Inflamed Surface Area of Patients With Type 2 Diabetes Mellitus Compare with Non-Diabetes Mellitus
<table>
<thead>
<tr>
<th>No</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ekspresi caspase 9 pada kultur Bone Marrow Stem Cell (BMSCs) dengan kondisi hipoksia</td>
<td>38 - 44</td>
</tr>
</tbody>
</table>

[Ekspresi caspase 9 pada kultur Bone Marrow Stem Cell (BMSCs) dengan kondisi hipoksia]
Ekspresi caspase 9 pada kultur Bone Marrow Stem Cell (BMSCs) dengan kondisi hipoksia

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Abstract

Background: Bone marrow stem cells (BMSCs) have demonstrated potential for periodontal regenerative medicine strategies. Hypoxia condition was necessary to support bone marrow stem cell viability. Therefore, it is necessary to prove scientifically what the influence hypoxia precondition to the evidence of apoptosis on BMSCs culture. Objective. The purpose of this study to explore the effects of hypoxia on BMSCs on caspase 9 expression. Methods. Research design used experimental laboratories. The isolation of stem cells was made culturing the mesenchymal stem cells derived from crista iliiaca of the bone marrow from male rabbits. Stem cell culture was performed in hypoxic conditions (O2 1%, 3%, 5%) and measured caspase-9 expression using RT-PCR. Result. This hypoxic precondition in the culture of Bone Marrow Mesenchymal Stem Cells decrease caspase 9 expression. Conclusion: Hypoxic precondition can reduce apoptosis in the culture of Bone Marrow Mesenchymal Stem Cells.

Keyword: bone, marrow, mesenchymal, stem, cells, hypoxia, caspase, 9,

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