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PP-005 Guided Tissue Regeneration Membrane for Periodontal Regeneration

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Background. A variety of surgical techniques and materials continue to be developed to improve periodontal regeneration. One surgical method that is commonly used in periodontal defects using the barrier membrane is guided tissue regeneration (GTR) or guided bone regeneration (GBR). **Purpose.** This paper describes the use of various types of barrier membranes, characteristics and role in tissue regeneration. **Review.** Principles GTR / GBR is using the barrier membrane to separate the epithelial tissue and connective tissue with periodontal ligament and alveolar bone. This improves membrane function and maintaining blood clots and acts as a scaffold for cell attachment and proliferation. There are two types of membrane that is resorbable and non-resorbable membrane. The use of non-resorbable membrane require surgery to take out the membrane so that now it is rarely used. Resorbable membrane can be made of natural materials such as collagen, laminar bone, dura mater or connective tissue transplant. Moreover, it can be made of a synthetic resorbable materials. **Conclusions.** The membrane is perfectly still undiscovered, collagen membranes currently more often used because it has the optimal biocompatibility, although the extent is difficult to predict the membrane resorption.

Keywords: resorbable membrane, non-resorbable membrane, guided tissue regeneration.
