

ENGLISH FOR DENTISTS IN PRACTICE
PART FOURTY: TOOTH INJURY
PART THREE
Answers

VOCABULARY PRACTICE

Read the text below.

There are some factors that affect the results of regenerative endodontic treatment. To achieve successful results of the treatment procedure, a thorough understanding of these factors is very important.

The first factor is the disinfection of the canal. The absence of bacteria is critical for successful revascularization because the new tissue will stop at the level it meets bacteria in the canal space. In necrotic cases with apical periodontitis it must be recognized that the vital tissue might not be normal pulp tissue, despite the fact that root development continues and dentine maturation occurs. In teeth with open apices and necrotic pulps, it is possible that some vital pulp tissue and Hertwig's Epithelial Root Sheath remain. When the canal is properly disinfected, the inflammatory process reverses and these tissues may proliferate.

The second factor is the apex diameter. A tooth with an open apex allows the migration of mesenchymal stem cells into the root canal space, and this could allow host cell homing to form new tissue in the root canal space. An apical opening of 1.1 mm in diameter or larger is beneficial, with natural regenerative endodontic treatment occurring in approximately 18% to 34% of teeth with immature roots.

The third factor is the patient age. Most of endodontic treatment procedures have generally been limited to patients who are reaching adolescence, mostly aged from 8 – 16 years. It would not be advisable to perform regenerative endodontic treatment procedures in children younger than 8 years or older than 16 years.

In addition, the procedure of revascularization may carry some complications and limitations. Firstly, it must be noted that it's difficult to achieve success in fully formed permanent teeth. Secondly, there is some potential for clinical and biological complications such as crown discoloration, development of resistant bacterial strains (due to long-term use of antimicrobial agents), and allergic reaction to intracanal medicament. Next, if tissue is reinfected, there is a potential risk of necrosis. What's more, the concentration and composition of the stem cells entrapped in the fibrin clot is unpredictable, particularly in older patients, and may lead to the disparity in the result. And last but not least, lack of long-term follow-up studies still makes revascularization procedure a supplement but not a substitute to the already existing treatment protocols such as apexogenesis, apexification, or partial pulpotomy.

On the basis of what you've read, mark the sentences True (T) or False (F)

1. Revascularization is ineffective in the presence of bacteria. **T** / F
2. The pulp like tissue may develop and grow only if the channel is properly cleaned. **T** / F
3. The wider the opening of the apex is the lower the chances of successful revascularization are. T / **F**
4. Revascularization seems to be most effective in children of any age. T / **F**
5. It is impossible for pulp reinfection after the procedure of revascularization. T / **F**

Look at the text above. Find synonyms to words and phrases below.

1. outcomes- _____ results _____
2. alive, living- _____ vital _____
3. to go backwards- _____ reverse _____
4. to cause to expand, grow or spread - _____ proliferate _____
5. a straight line that crosses a circle through the centre, or the length of this line-
_____ diameter _____
6. to aim at something and move quickly and directly to it- _____ host to _____
7. having a good effect or influence on someone or something- _____ beneficial _____
8. the period of your life when you change from being a child to being a young adult-
_____ adolescence _____
9. not harmed or affected by something- _____ resistant _____
10. a condition in which part of the body has decayed and no longer works normally-
_____ necrosis _____
11. to be in a dangerous situation that is difficult to escape from- _____ entrapped _____
12. a difference between things- _____ disparity _____
13. a phrase used when you mention the final person or thing in a list, in order to say that they
are equally important- _____ last but not least _____
14. something extra- _____ supplement _____
15. something new or different instead of what is normally used - _____