

CPD QUESTIONNAIRE 6.5.1

Article: A comprehensive clinical review of Platelet Rich Fibrin (PRF) and its role in promoting tissue healing and regeneration in dentistry. Part I: Definition, development, biological characteristics and function. Hartshorne and Gluckman, page 14

1. According to the authors, the gold standard for in vivo tissue healing and regeneration requires the mutual interaction between:
 - a A scaffold (fibrin matrix)
 - b Platelets and growth factors
 - c Leukocytes and stem cells
 - d None of the above
 - e All of the above
2. The blood concentrate which is obtained after centrifugation has:
 - a 5 distinct layers
 - b 4 distinct layers
 - c 3 distinct layers
3. Of the above layers in Q2, which does the bottom layer consist of:
 - a An acellular plasma (platelet-poor plasma [PPP]) supernatant layer
 - b A red blood cell (RBC)
 - c A PRF clot
4. In 2006, the preparation CGF (concentrated growth factors) was developed by:
 - a Choukroun and co-workers
 - b Sacci
 - c Anitua and co-workers
 - d Dohan Ehrenfest
5. Which statement is correct: Most leukocytes are found in:
 - a The first 25–30% proximal part of the clot
 - b The first 15–20% proximal part of the clot

Article: A comprehensive clinical review of Platelet Rich Fibrin (PRF) and its role in promoting tissue healing and regeneration in dentistry. Part II: Preparation, optimization, handling and application, benefits and limitations of PRF. Hartshorne and Gluckman, page 34

6. Optimal PRF membrane quality and treatment success is dependent on: quick collection of blood and transfer to the centrifuge, which is, as per Choukroun:
 - a 4-8 minutes
 - b 2 minutes
7. The PRF protocol is dependent on a quick collection of blood and its transfer to the centrifuge because blood will automatically start to coagulate after:
 - a 4-8 minutes
 - b 1-2 minutes
8. Which statement is correct. In vitro studies showed that:
 - a A longer centrifugation protocol produces a denser (stronger) fibrin clot with less inter-fibrous space containing less cells
 - b A longer centrifugation protocol produces a less dense fibrin clot with a looser inter-fibrous structure containing more cells.
9. Which statement is correct. Centrifuge rotational speed and subsequent vibrations, has been shown to have:
 - a No direct impact on the architecture and cell content of a PRF clot.
 - b Direct impact on the architecture and cell content of a PRF clot.
10. PRF membranes can be used in patients with systemic conditions where healing is compromised (i.e. diabetics and smokers)
 - a True
 - b False

CPD QUESTIONNAIRE 6.5.2

Article: Clinical significance of the anterior loop of the mental nerve: anatomical dissection of a cadaver population. Bobat and Rikhotso, page 52

11. Plain film radiographs are adequate for the accurate identification of the Anterior Loop (AL):
 - a True
 - b False
12. In the study described, anatomical dissection revealed AL lengths of :
 - a 0mm to 7mm
 - b 0mm to 1mm
13. Which statement is correct: The study by Uchida et al concluded that
 - a CBCT confers a low degree of accuracy when assessing the presence of an AL
 - b CBCT confers a high degree of accuracy when assessing the presence of an AL
14. Which statement is correct. In the study described:
 - a The mental foramen was probed using a Williams probe
 - b The mental foramen was probed using a Michigan probe
 - c The mental foramen was probed using a Naber's probe
15. According to the authors, when it comes to implant placement anterior to the mental foramen, the recommended safety zone (unless confirmed otherwise by 3D imaging such as CBCTs) is:
 - a 3mm
 - b 7mm
 - c 5mm

Article: A comprehensive clinical review of Platelet Rich Fibrin (PRF) and its role in promoting tissue healing and regeneration in dentistry. Part III: Clinical indications of PRF in implant dentistry, periodontology, oral surgery and regenerative endodontics Hartshorne and Gluckman, page 64

16. PRF is an ideal replacement biomaterial to replace xenogenic and expensive collagen membranes in some situations:
 - a True
 - b False
17. Which statement is correct: One clinical study showed that treatment of peri-implant defects with PRF was clinically:
 - a Less effective than with conventional flap surgery alone
 - b More effective than with conventional flap surgery alone
18. PRF plugs or membranes should not be used to fill extraction sockets, even when associated with compromised extraction sockets, severe cystic destructions or after cyst enucleation
 - a True
 - b False
19. Case studies suggest that PRF application into the osteotomy site:
 - a Decreases implant stability during the early healing period, as evidenced by lower ISQ values.
 - b Increases implant stability during the early healing period, as evidenced by higher ISQ values.
20. The combined use of platelet-rich fibrin (PRF), and mineral trioxide aggregate (MTA) as root filling material is beneficial for the endodontic management of an open apex
 - a True
 - b False