IACDE STUDENT EXCHANGE PROGRAMME

REGENERATIVE STRATEGIES IN ENDODONTICS

Course I :-

- Maturogensis of young permanent teeth with immature apices and thin dentinal walls with ortho grade placement of PRF and biological coronal seal with MTA.
- Case assessment with CBCT and 3D Reconstruction as a diagnostic tool for better case evaluation.

Course II

- Corrective surgeries – Hemisection / Radisection/Intentional Replantation-(Any One)
- Auto transplantation with aid 3-D printed tooth.

Course III

- Utilization of customized grid on 3D Printed human mandible of periapical defects for precise, minimal extension of Periapical osteotomy site as an aid in surgical endodontics.
- Utilization of 3D printed template with surgical trephine fabrication for peruse osteotomy localization in surgical endodontics.
- Comparative analysis of the above 2methods will be carried out and data presented to evaluate the pro's and cons of both techniques.
- As both surgical methods will be preformed with 3D assisted manufacturing aids an understanding of this technology to benefit the clinician in the area of surgical will be endodontics highlighted.

Day & Month : _____

No Of candidates:

No Of days: 3

Day 1 – 9:30 – 12:30 - Lecture Sessions (3 Hrs)

1:30 – 3:30 - Lecture Sessions (2 Hrs)

Day 2 – Demo on3D assisted manufacturing aids in PA surgeries.

9:30 – 12:30 – Course I

12:30 – 3:30 - Course II

Day 3 – Live – Demo on Corrective surgeries.

9:30 – 12:30 – Course III

12:30 – 3:30 - Auto transplantation

Course fee: 3000

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REGENERATIVE STRATEGIES IN ENDODONTICS

COURSE OBJECTIVES:

1. To understand the basic principles behind regenerative aspects in Endodontic therapy and periradicular surgeries.
2. To provide an update on the regenerative protocol and its clinical significance.
3. Case selection and treatment planning approaches in regenerative therapy.
4. Practical application about the preparation of first and second generation platelet derived regenerative modalities.
5. Various placement techniques and its impact in clinical outcomes.
6. To understand the role of scaffolds in revascularization/ regenerative procedures.
7. To provide an understanding in the areas of stem cell therapy & the role of growth factors in tissue engineering.
8. Significance of coronal seal and methods of obtaining the same with MTA (including material aspects)
9. LSTR therapy and preparation of modified triple antibiotic paste.
10. Future scope for research and update on recent advances in regenerative treatment modalities.

Course I :-

- Maturogensis of young permanent teeth with immature apices and thin dentinal walls with ortho grade placement of PRF and biological coronal seal with MTA.
- Case assessment with CBCT and 3D Reconstruction as a diagnostic tool for better case evaluation.

Course II

- **3- D Printed** Guided Periradicular surgery of a large periapical bony defect using scaffold / PRF as a regenerative aid.
- **3-D Printed** template preparation prior to surgical intervention to minimally design soft – tissue management for better predictable outcome.

Course III

- Corrective surgeries – Hemisection / Radisection/Intentional Replantation-(Any One)
- Auto transplantation

[Outline on auto transplantation procedures – case selection criteria, prognostic criteria, treatment planning and evidence based literature survey on success rates and recent recommendations / guidelines on auto transplantation therapy]

Day & Month : 6th - 8th September 2018

No Of candidates: 10

No Of days: 3

Day 1 – 9:30 – 12:30 - Lecture Sessions (3 Hrs)
1:30 – 3:30 - Lecture Sessions (2 Hrs)

Day 2 – Live – Demo on regenerative therapy.
9:30 – 12:30 – Course I
12:30 – 3:30 - Course II

Day 3 – Live – Demo on Corrective surgeries.
9:30 – 12:30 – Course III
12:30 – 3:30 - Auto transplantation

Course fee: 3000