B. Questionnaire to inform discussions at Szeged, 26-28th August 2015

SIG F05: Monitoring & Assessment in undergraduate Endodontology; towards a European standard. Phase 2: Clinical Endodontics.

Response: 46/214 (21.5%) Disappointing, and must not be over-analysed.

1. Location of Endodontic teaching
   - Dedicated Endo clinic in the Dental School 20
   - Mixed ‘Conservation’ or ‘Restorative’ clinics in the Dental School 31
   - Community clinics outside the Dental School 8
   - Many offer mixed experiences

2. Nature of teachers
   - Only teachers who specialise in Endodontics 10
     (not all countries formally recognise Endodontists)
   - Only general practitioners 2
   - Combination of general practitioners and those who specialise 34

3. Typical staff/student ratios for clinical endodontic treatment
   - Average 1:7 (range 1:3 – 1:25)

4. Do schools have rules on minimum levels clinical activity in Endo?
   - Yes 34
   - No 12
     - Minimum 2 single root cases, 2 multi-root cases start to finish.
     - At least one tooth each year.
     - One tooth each year.
     - 1 incisor, 1 premolar and 1 molar.
     - 20 root canals.
     - 20 root canals.
     - 3 canals in 4th year and 6 canals in 5th year.
     - 10molar, 15 anterior.
• Requirements based on competencies.
• Single and molar endo to a satisfactory standard.
• 4th year: 20 root canal treatment (2 of which must be multirooted),
  3 cases of direct pulp capping,
5th year: treatment of at least 60 roots, including at least 2 teeth with
periradicular pathosis, 5 cases of pulp capping, 1 intra-coronal bleaching and
1 case of post-core application
• 3 roots for the 3rd year, 8 roots for the 4th year, 12 roots for the 5th year.
• 10 canals, with a minimum of 2 multi-rooted cases.
• 20 canals or 10 multi-rooted
• Absolute minimum 1 tooth with 1-2 root and 1 molar with 3-4 root within their first year.
• 10 root canals and 1 case of retreatment.
• Definite number of treatment on single canal teeth or premolar in 4th year;
  definite number of treatment on molar in 5th year and treatment of teeth with
  apical periodontitis and 2 retreatments (one must be on molar); one molar treated
  in one visit in the last (6th) year and a follow up of apical periodontitis and one surgical
  assistance (apicoectomy and root end filling).
• Minimum 8 canals.
• At least 16 root canals (most already accessed and dressed).
• One single or two-rooted tooth, one molar.
• 6 single-rooted, 3 molars.
• 30 premolar or anterior teeth, 10 molars.
• 7 teeth, including 4 molars.
• At least 4 clinical cases of consistent quality.
• 4 single/two rooted, 2 molars.
• 70 completed cases (primary and re-treatments).
• 4 canals per semester (16 total).
• 1 root canal treatment (generally do 1-5).
• 12 canals, including 1 molar.
• Sliding scale based on case difficulty assessment.

5. Student experience
It is possible for students in my school to gain NO experience of:

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Count</th>
<th>(n = 46)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indirect pulp capping</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Direct pulp capping</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>Cvek pulpotomy</td>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>
Pulp chamber pulpotomy 27
Root canal treatment 0
Molar root canal treatment 3
Root canal re-treatment 21
Apexification 37
Perforation repair 39

6. Schools concerned about the limited supply of suitable student cases?
   Yes 26  (n = 46)
   No 20

Free comments:
   • Single roots in particular.
   • Many referred cases are too complex for undergraduates.
   • ‘Novel’ methods are sought to overcome the problem.
   • Cases that are too complex often have to be managed jointly with teachers (x3).
   • An abundance of complex cases.

7. Schools that formally test endodontic skills & knowledge during the clinical years.
   Skills 43  (n = 46)
   Knowledge 39
8. Schools providing continuous assessment/feedback on clinical activity
   Paper-based system 26  (n = 46)
   Electronic system 15
   Periodic progress reviews 18
   Encouraging student reflection 38

9. Remediation for weak students
   Individual, tailored training 10  (n = 46)
   Repeat semester 1
   Summer school 1

10. Schools willing to share their materials 9

Questions to be addressed in Szeged:
1. Expected levels of activity in root canal treatment are highly variable.
   Is it possible or helpful for the ESE/ADEE to recommend minimum levels of clinical activity in undergraduate Endodontology?

2. Is it possible or helpful for ESE/ADEE to recommend minimum standards for monitoring and assessing student clinical progress in clinical endodontics?
   Eg: can we recommend that all schools assess the knowledge and skills of their students during clinical years
   What should be tested?
   How?