

Video Project 3: Endodontic Therapy (Continued)

☑ Heloise and Eva's Presentation: (Continued)

- For histological evaluation, surgery is necessary to determine the presence of inflammation at the cellular level.

histo'logical

determine /dɪ'tɜː.mɪn/

surgery /'sɜː.dʒər.i/ noun [U]

the treatment of injuries or diseases in people or animals by cutting open the body and removing or repairing the damaged part:

*The patient had/underwent **surgery** on his heart.*

He made a good recovery after surgery to remove a brain tumour.

operation /ˌɒp.ər'eɪ.ʃən/ noun [C] (UK INFORMAL **op**)

when a doctor cuts a body for medical reasons in order to repair, remove or replace a diseased or damaged part:

a major/minor/routine operation

an abdominal/cataract/transplant operation

*He's got to have **an operation** on his shoulder.*

[+ to infinitive] *We will know in a couple of days if the operation to restore her sight was successful.*

- Secondly, according to Delta Dental Study, root canal therapy yields long-term success rates of around 97%.

/'sek.ənd.li/

yield /jiːld/ verb [T]

to supply or produce something positive such as a profit, an amount of food or information:

an attempt to yield increased profits

The investigation yielded some unexpected results.

Favourable weather yielded a good crop.

- According to CAM (French Medical Benefits) there is a 95% success rate for a non-infected tooth, whereas it rates 85% for an infected tooth and 75% for a retreated tooth.
- Finally, to compare France and the USA, in France there are 7.5 million cases of root canal therapy per year while in the USA there are 15 million cases of root canal therapy per year. So, in France, adjusted for population, there are more root canal therapies than in the USA. I would like to add that if the dentist doesn't follow the root canal protocol, it may lead to nosocomial infections.

nosocomial /ˌnɒ.sə'kɒʊ.mɪəl/

Nosocomial infections are infections which are a result of treatment in a hospital or a healthcare service unit, but not secondary to the patient's original condition.

☑ **Hélène, Laura and Chloe's Presentation: (Continued)**

- These are my friends... / Here are my classmates...
- Pul'pectomy / pul'potomy
- material /mə'tiə.ri.əl/
- When a cavity has reached the pulp, where there are blood vessels and nerves, because of different circumstances, for example when the pulp is irritated by trauma or the tooth is broken, or a periapical lesion, the dentist proceeds to treat the tooth with a root canal.

/'sɜ:.kəm.stɑ:ns/

/'li:.ʒən/

/,pe.rɪ'ei.pi.kəl/

- When the pulp is infected, and bacteria penetrate the pulp, you have to devitalize the tooth.

/'pen.i.treɪt/

- Endodontic therapy consists of the removal of the pulp and the elimination of infection and the protection of the decontaminated pulp from bacterial invasion.

decon'taminated

- To treat and protect the tooth, the dentist drills into the pulp, scrapes the cavity clean, and covers the opening. He does this in five steps.

/skreɪp/

/dʌz/

- First, the dentist applies local anaesthesia.
applies a local anaesthetic.
- Second, he eliminates the infection by scraping the interior of the pulp chamber and the root canals.
- And third, he cleans the pulp chamber and the cavity by and scratching.
irrigation
irrigating (it)
- Then the dentist has to cover the opening and seal the root canals with gutta percha.

seal /si:l/ noun [C]

something fixed around the edge of an opening to prevent liquid or gas flowing through it:
Clean the seal on/around the fridge door regularly so that it remains airtight.

seal /si:l/ verb [T]

to close an entrance or container so that nothing can enter or leave it

gutta percha /'gʌ.tə'pɜ:.tʃə/

- And finally, after root canal, the tooth is very fragile, so he has to put in dental posts and/or a crown to strengthen the tooth.

/'frædʒ.aɪ/ /'frædʒ.əl/

- There are two different endodontic therapies: pulpotomy and pulpectomy. So, what are these two procedures?
- For patients, root canal therapy is one of the most feared procedures in the whole dentistry.
- Sometimes the dentist has to treat the teeth by removing all the infected pulp and applying a dressing and a temporary filling to the teeth.

This process is called pulpectomy.
This process is referred to as pulpectomy.

- Pulpotomy is definitive for baby teeth and temporary for permanent teeth.

/dɪ'fɪn.ɪ.tɪv/
/'tem.pər.ər.i/

- It consists of removing the coronal portion of the pulp, which contains 90% of
the nerves
nerve tissues
- This process tends to eliminate the pain.
= This process generally eliminates the pain.
- If the pain returns, it means that the patient is biting into the tooth or
there is a piece of nerve tissue left.
there remains a piece of nerve tissue.

/ɪ'tɜ:n/

- ... or there's still more pus building up in the infected tooth.

/pʌs/

- Could you tell us about the materials dentists use?
- Dental professionals assert that modern root canal therapy is relatively painless because the pain can be controlled.

/'mɒd.ən/
'relatively
con'trolled

- Lidocaine is a commonly used local anaesthetic.

/ˈlaɪ.də.keɪn/

- Pain control medication can be used either before or after treatment. The dentist can prescribe a week of antibiotics such as penicillin to reduce the infection and the pus, making it easier to anaesthetize the tooth when the patient comes back one week later.

/ˌæn.tɪ.baɪˈɒt.ɪk/

/ˌpen.əˈsɪl.ɪn/

/rɪˈdʒuːs/

/əˈniːs.θə.taɪz/

- Very small instruments are used to clean the pulp chamber and the root canals and to shape the space for filling.

/ˈtʃeɪm.bər/

- Files are used to scrape out the infected pulp. They are soaked in calcium hydroxide and EDTA before entry into the canal.
inserting (them)

- Calcium hydroxide disinfects the root canals. EDTA softens the dentin in order to facilitate file entry.

/ˌhaɪdˈrɒksaɪd/

/ˌdɪs.ɪnˈfekt/

/ˈsɒf.ən/

- The endodontist fills the root canals with a biocompatible material, usually a rubber-like material named gutta percha. It is placed with adhesive cement in the root canals to ensure their complete sealing.

/ˌbaɪ.əʊ.kəmˈpæt.ɪ.bl/

/ədˈhiː.sɪv/

/sɪˈment/

- In most cases, a temporary filling with calcium hydroxide paste is placed to close the opening. The dentist will remove it before the tooth is restored.
- To conclude, modern root canal therapy is relatively comfortable and helps (to) save the tooth and to have a healthy mouth.

/ˈθer.ə.pi/

/ˈrel.ə.tɪv.li/

/ˈkʌm.fə.tə.bl/

Other things we talked about:

- The exhibition is held in Lille's Fine Art Museum located in Republic Square.

And finally homework:

1. Print-out the class notes and review it actively. (Don't just read it! Try to use the sentences and talk to yourself or your friends about it.)
2. Study the text on root canal therapy and prepare yourselves for VP3.
Here are some more resources:
<http://www.youtube.com/watch?v=jTrdwBFmOAA&feature=related>
http://www.youtube.com/watch?v=wOLLHNve_iA
<http://www.youtube.com/watch?v=YfQe1QzeDIY>
3. Make comments on your classmates' video-projects (and your own as well, if you like) as soon as they are uploaded to [LanguageClassLive](#).
4. Watch videos, listen to radio programmes, read... IN ENGLISH!!!
 - You could try my website 1stparagraph.com on which I provide a selection of different articles and videos on the Internet which I think are worth reading:
<http://cyberend.com/01/category/1stparagraph/english-1stparagraph/>
You read the first paragraph on 1stparagraph.com and if you like it, you click on the link to go to the source website and read the whole article.
While reading the first paragraph on 1stparagraph.com, if you come across any new words, just double click on the word, or highlight it, to get a menu allowing you to look up the meaning in a dictionary of your choice.