Please tick which course you are evaluating: O Phantom course in Operative Dentistry (Simulation course) O Course I in Operative Dentistry (Patient course) O Course II in Operative Dentistry (Patient course)		
 O Phantom course in Operative Dentistry (Simulation course) O Course I in Operative Dentistry (Patient course) O Course II in Operative Dentistry (Patient course) 		
O Course if in Operative Dentistry (Patient course		
Mean Std.dev. students students st	MIN. Max. students students	Median students
2. How many students per semester are currently in your phantom course in operative dentistry (please specify)? 40.7 16.3	12.0 92.0	38.0
Students Universities (%)		
12–20 1 (3%)		
21–30 10 (30%)		
31–40 7 (21%)		
41–50 9 (27%)		
51–60 3 (9%)		
60–92 3 (9%)		
3. How many male students per semester are currently in your phantom course in operative dentistry (please specify)? 14.1 7.4 (36%) (11%)	3.0 30.0 (14%) (63%)	13.5 (36%)
Male students Universities (%)		
10-20% 2 (6%)		
21-30% 7 (21%)		
31-40% 13 (39%)		
41-50% 8 (26%)		
>50% 2 (6%)		
n/a 1 (3%)		
n/a= no answer given		

What is the current status of student training in preclinical and clinical endodontology in Germany and German-speaking countries?

									Mean ratio	Std.dev. ratio	Min. ratio	Max. ratio	Median ratio
4.	How is the teacher-stude	ent ratio currently def	fined in the pra	ctical parts o	f the course (p	lease spe	ecify)?		14.7	6.9	4.0	38.0	15.0
	Faculty-student ratio	Universities (%)	I										
	1: 4-5	4 (12%)											
	1: 6-9	3 (9%)											
	1: 10-12	4 (12%)											
	1: 13-15	9 (27%)											
	1: 16-19	4 (12%)											
	1: 20-22	8 (24%)											
	1:38	1 (3%)											
5	Among the teachers there	are (multiple	Completely	Disagree	Lin-	Aaree	Strongly	Do not	Mean	Std dev	Min	Max	Median
5.	answers possible):		disagree	Diougroo	decided	rigioo	agree	know	moun	Claidon		indixi	moului
			1	Ø	3	4	5	6					
5.1.	Dentists without specific	education	4 (12%)	-	2 (6%)		26 (79%)	1 (3%)	4.4	1.4	1.0	6.0	5.0
5.2.	Graduates of non-structu education courses with er	ured continuing	6 (18%)	-	3 (9%)	-	19 (58%)	1 (3%)	4.0	1.7	1.0	6.0	5.0
5.3.	Graduates of structured courses with endodontolo curriculum)	post-licensure trainin gy content (e.g.	g 10 (30%)	-	1 (3%)	-	19 (58%)	1 (3%)	3.7	1.9	1.0	6.0	5.0
5.4.	Persons working in a prace	ctice limited to	22 (67%)	-	-	-	8 (24%)	-	2.1	1.8	1.0	5.0	1.0
5.5.	Persons with an endodor specialisation, uncertified	ntology ed	13 (40%)	-	-		17 (52%)	-	3.3	1.9	1.0	5.0	5.5
5.6.	Graduates with a master endodontology	s degree in	22 (30%)	-	1 (3%)	-	5 (15%)	2 (6%)	2.1	1.9	1.0	6.0	1.0
5.7.	Specialists certified in e	ndodontics	16 (48%)	-	-	-	14 (42%)	-	2.9	2.0	1.0	5.0	1.0

II.	Time Manag	gement						
				Mean	Std.dev.	Min.	Max.	Median
6. Ho	w many hours (á 45 mi	n.) are available to you in	total for the endodontology part of the course (please specify)?	56.3	24.2	15.0	107.0	54.75
	hour (h)	Universities (%)						
	15-30	5 (15%)						
	31-50	9 (27%)						
	51-70	8 (24%)						
	71-90	6 (18%)						
	91-107	2 (6%)						
	n/a	3 (9%)						
n/a= no	answer given							
7. ⊢ s	low many hours (á 45 ι pecify)?	min.) do you have availab	e to teach the practical content of endodontology in your course (please	39.3	21.3	3.0	78.0	40.0
Pra	actical training (h)	Universities (%)						
	3-10	5 (15%)	-					
	11–20	3 (9%)						
	21–30	3 (9%)						
	31-40	6 (18%)						
	41-50	6 (18%)						
	51-60	5 (15%)						
	61-78	5 (15%)						

								Mean hours	Std.dev. hours	Min. hours	Max. hours	Median hours
8.	How many hours (á 45 min.) do you have avail (please specify)?	able to teach the	e theoretical	content for	endodon	tology in your	course	15.4	13.4	1.0	70.0	12.0
т	Theory lessons (h) Universities (%)											
	1–5 4 (12%)	_										
	6–10 12 (36%)											
	11–15 6 (18%)											
	16–20 5 (15%)											
	21–25 2 (6%)											
	26–30 1 (3%)											
	31-70 3 (9%)											
	III. Learning-teaching Settings:	Theoretical	Endodont	ology					11		1	
9.	The following learning-teaching settings are offered to convey the theoretical content (multiple answers possible):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		1	0	3	4	5	6					
9.1.	Lectures	-	-	-	-	31 (94%)	-	5.0	0.0	5.0	5.0	5.0
9.2.	Seminars = S (in-depth, mostly interdisciplinar discussion of content in smaller groups than in the lectures, including patient presentation).	ry 16 (48%)	-	2 (6%)	-	14 (42%)	-	2.9	1.9	1.0	5.0	2.0
9.2.1	. whereby the number of seminar participants is not more than 20 students	21 (64%)	-	2 (6%)	-	8 (24%)	-	2.2	1.7	1.0	5.0	1.0
9.3.	Combination S & Tutorials * (* see 8.4)	29 (88%)	-	-	-	1 (3%)	1 (3%)	1.3	1.1	1.0	5.0	1.0
9.4.	Tutorials =T (are led by students with appropriate qualifications, supervised by members of the teaching staff and represent a possible form of regulated self-study by students)	26 (79%)	-	1 (3%)	-	5 (15%)		1.7	1.5	1.0	5.0	1.0
9.5.	Subject-related study groups = GS (seminar and lecture content are practised in problem- oriented manner).	22 (67%)	-	-	-	10 (30%)	-	2.3	1.9	1.0	5.0	1.0
9.5.1	. Combination GS & T (problem-oriented)	29 (88%)	-	-	-	3 (9%)	-	1.4	1.2	1.0	5.0	1.0
9.5.2	. Combination GS & T (case study-oriented)	30 (91%)	-	-	-	2 (6%)	-	1.2	0.9	1.0	5.0	1.0
9.6.	Blended learning (combination of a. face-to- face teaching and then b. e-learning)	27 (82%)	-	-	-	6 (18%)	-	1.7	1.5	1.0	5.0	1.0
9.7.	Inverted classroom (combination of a. e- learning followed by b. classroom teaching)	27 (82%)	1 (3%)	-	-	5 (15%)	-	1.6	1.4	1.0	5.0	1.0

9.8.	Other (please specify):											
10.	Among the teachers who teach the theoretical content are (multiple answers possible):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		1	0	3	4	5	6					
10.1.	Dentists without specific education	12 (36%)	-	2 (6%)	-	15 (45%)	1 (3%)	3.3	1.9	1.0	6.0	5.0
10.2.	Graduates of non-structured continuing education courses with endodontology content	14 (42%)	-	-	-	12 (26%)	1 (3%)	2.9	2.1	1.0	6.0	1.0
10.3.	Graduates of structured post-licensure training courses with endodontology content (e.g. curriculum)	10 (30%)	-	2 (6%)	-	16 (48%)	2 (6%)	3.6	1.9	1.0	6.0	5.0
10.4.	Persons working in a practice limited to endodontics	21 (64%)	-	-	-	7 (21%)	-	2.0	1.7	1.0	5.0	1.0
10.5.	Persons with an endodontology specialisation, uncertified	8 (24%)	-	-	-	19 (58%)	1 (3%)	3.9	1.8	1.0	6.0	5.0
10.6.	Graduates with a master's degree in endodontology	20 (64%)	-	1 (3%)	-	6 (18%)	1 (3%)	2.1	1.8	1.0	6.0	1.0
10.7.	Specialists certified in endodontics	12 (36%)	-	1 (3%)	-	15 (45%)	1 (3%)	3.3	1.9	1.0	6.0	5.0
	IV. Learning-teaching Materials	: Theoretica	I Endodor	ntology								
11.	The following learning-teaching materials are offered for teaching the theoretical content (multiple answers possible):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		1	2	3	4	5	6					
11.1.	Endodontology scripts	12 (36%)	-	1 (3%)	-	18 (55%)	-	3.4	1.9	1.0	5.0	5.0
11.2.	Lecture hand-outs	3 (9%)	-	1 (3%)	-	27 (82%)	-	4.5	1.2	1.0	5.0	5.0
11.3.	E-learning modules	23 (70%)	-	1 (3%)	-	8 (24%)	-	2.1	1.7	1.0	5.0	1.0
11.4.	Other (please specify):						-					

12. What literature do you recommend? (Multiple answers possible; please indicate: title and author.)	
Textbooks	Universities (%)
Hellwig E, Klimek J, Attin T (2003) <i>Einführung in die Zahnerhaltung,</i> München, Germany: Urban & Fischer.	11 (33%)
Hülsmann M (1993) Endodontie (Checklisten Zahnmedizin), Stuttgart, Germany: Thieme.	7 (21%)
Hülsmann M, Schäfer E (2006) <i>Probleme in der Endodontie</i> , Berlin, Germany: Quintessenz Verlag.	4 (13%)
Rödig T, Hülsmann M, Nordmeyer S, Drebenstedt S (2009) <i>Grundlagen der modernen Endodontie,</i> Balingen, Germany: Spitta GmbH.	3 (9%)
Kockapan C (2003) Curriculum Endodontie, Berlin, Germany: Quintessenz Verlag.	3 (9%)
Torabinejad M, Walton RE (2008) <i>Endodontics: Principles and Practice,</i> 4 th edn St. Louis, MO, USA: Saunders Elsevier.	2 (6%)
Beer R, Baumann MA, Kielbassa AM (2003) Taschenatlas der Endodontie, Stuttgart, Germany: Thieme.	2 (6%)
Stock C, Walker R, Gulavivala K (2005) et al.: <i>Endodontie,</i> München, Germany: Urban & Fischer Verlag/Elsevier GmbH.	2 (6%)
Bargholz C, Hör D, Zirkel C (2006) <i>Praxisleitfaden Endodontie,</i> München, Germany: Urban & Fischer Verlag/Elsevier GmbH.	2 (6%)
Baumann MA, Beer R (2007) Farbatlanten der Zahnmedizin-Endodontolgie, Stuttgart, Germany: Georg Thieme Verlag KG.	2 (6%)
diverse textbooks	10 (30%)
n/a	7 (21%)

13.	The materials are made available (multiple answers possible):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		0	2	3	4	Ś	6					
13.1.	On the internet	11 33%)	-	1 (3%)	-	11 (33%)	2 (6%)	3.2	2.1	1.0	6.0	5.0
13.2.	On the intranet	9 (27%)	-	-	-	21 (64%)	2 (6%)	3.9	1.8	1.0	6.0	5.0
13.3.	Other (please specify):						_					
14.	Indicate the number of hours (á 45 min.) devo	ted to the followi	ng subjects/	topics:				Mean hours	Std.dev. hours	Min. hours	Max. hours	Median hours
14.1.	Root canal anatomy and pulp histology							2.6	2.8	0.5	15.0	2.0
14.2.	Pulp pathology and endodontic microbiology							1.7	1.2	0.5	6.0	1.0
14.3.	Endodontic radiology							1.5	0.9	0.5	4.0	1.0
14.4.	Endodontic materials							1.9	2.0	0.5	10.0	1.0
14.5.	Vital pulp therapies							1.7	1.3	0.2	5.0	1.0
14.6.	Root canal treatment on immature teeth with	non-vital pulp tiss	sues					1.4	1.3	1	6.0	1.0
14.7.	Root canal treatment							7.0	10.4	0.2	50.0	3.0
14.8.	Root canal re-treatment							2.0	2.4	0.2	10.5	1.0
14.9.	Endodontic surgery							1.2	1.1	0.2	4.0	1.0
14.10.	Endodontic regeneration							1.3	1.3	0.2	4.0	1.0
14.11.	Restoration of root filled teeth							1.6	1.7	0.2	6.0	1.0
14.12.	Bleaching of endodontically treated teeth							1.7	1.7	0.2	6.0	1.0
14.13.	Dental trauma							3.7	4.6	0.5	15.0	2.0
14.14.	Endodontic emergencies							1.8	1.3	0.5	6.0	1.0

١	V. Learning-teaching Settings:	Practical En	dodontolo	ogy								
15.	The following learning-teaching settings are offered to convey the practical content (multiple answers possible):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		1	2	3	4	5	6	_				
15.1.	On patients	33 (100%)	-	-	-	-	-	1.0	0.0	1.0	1.0	1.0
15.2.	Demonstrations	-	-	-	-	31 (94%)	-	4.9	0.4	1.0	5.0	5.0
15.3.	Hands-on exercises	4 (12%)	-	-	-	28 (85%)	1 (3%)	4.5	1.3	1.0	6.0	5.0
15.4.	Internships with students in the patient courses	6 (18%)	-	-	-	23 (70%)	-	4.2	1.6	1.0	5.0	5.0
15.5.	Internships with dentists at the university	11 (33%)	-	2 (6%)	1 (3%)	16 (48%)	1 (3%)	3.4	1.9	1.0	6.0	5.0
15.6.	Clinical traineeship with dentists in private practice	19 (58%)	-	3 (9%)	-	7 (21%)	1 (3%)	2.3	1.8	1.0	6.0	1.0
15.7.	In peer-tutored (by students in higher semesters) free practice periods	19 (58%)	-	-	-	9 (27%)	2 (6%)	2.5	2.0	1.0	6.0	1.0
15.8.	In tutored (by dental staff) free practice periods	20 (61%)	-	3 (9%)	-	5 (15%)	1 (3%)	2.2	1.7	1.0	6.0	1.0
15.9.	In free practice periods	4 (12%)	-	2 (6%)	-	25 (76%)	-	4.3	1.4	1.0	5.0	5.0
15.10.	In tutored course time	15 (45%)	-	-	-	15 (45%)	-	3.0	2.0	1.0	5.0	3.0
15.11.	Other (please specify):											
16.	The following materials are used (multiple answers possible):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		1	2	3	4	5	6					
16.1.	Videos (recorded)	8 (24%)	-	1 (3%)	-	22 (67%)	-	3.9	1.7	1.0	5.0	5.0
16.2.	Endodontology scripts (e.g. step by step)	6 (18%)	-	2 (6%)	-	22 (67%)	-	4.1	1.6	1.0	5.0	5.0
16.3.	Other (please specify):											

	VI. Learning	-teaching Requirem	ents: Practio	al Endod	ontology	1							
17.	Students learn in the below (multiple answ	e situations listed vers possible):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
			1	0	3	4	5	6					
17.1.	On patients		33 (100%)	-	-	-	-	-	1.0	0.0	1.0	1.0	1.0
17.2.	On human teeth		2 (6%)	-	-	-	31 (94%)	-	4.8	0.9	1.0	5.0	5.0
17.3.	On industrially mar simulation teeth ma model teeth)	nufactured standardised ade of plastic (e.g. Morita	4 (12%)	-	-	-	28 (85%)	-	4.5	1.3	1.0	5.0	5.0
17.4.	On patient-specific simulation teeth	DVT-based plastic	23 (70%)	-	-	1 (3%)	5 (15%)	-	1.8	1.6	1.0	5.0	1.0
17.5.	On single-root teeth	I	1 (3%)	-	-	-	32 (97%)	-	4.9	0.7	1.0	5.0	5.0
17.6.	On multiroot teeth		-	-	-	-	33 (100%)	-	5.0	0.0	5.0	5.0	5.
17.7.	Other (please specif	y):											
									Mean teeth	Std.dev. teeth	Min. teeth	Max. teeth	Median teeth
18.	Number of single-ro	ot teeth (please specify):							3.6	2.4	1.0	12.0	3.0
	Type of teeth	Universities (%)											
	Single rooted	32 (97%)											
	n/a	1 (3%)											
	01. Feb	9 (27%)											
	03. Apr	17 (52%)											
	5-7	4 (12%)											
	>8	2 (6%)											

									Mean hours	Std.dev. hours	Min. hours	Max. hours	Median hours
19.	Number of multi-roo	oted teeth (please specify)							3.6	2.4	1.0	13.0	3.0
	Type of teeth	Universities (%)											
	Multirooted	33 (100%)											
	n/a	1 (3%)											
	01. Feb	12 (36%)											
	03. Apr	15 (45%)											
	5-7	3 (9%)											
	>8	2 (6%)											
20.	The measuring of th	e working length of the roo	t canal is determ	nined by (mu	ltiple answe	rs possible	e, please spec	cify):					
м	ethods of working le	ngth determination.	Universities (%)									
	X-ray measureme	ent technology	11 (33%)										
	Endom	netry	2 (6%)										
	X-ray measureme	nt + endometry	19 (58%)										
	Gau	ge	1 (3%)										
	·	5	~ /										
			Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
			1	2	3	4	5	6					
21.	Students learn man preparation with ha tick as appropriate)	ual root canal and instruments (please	1 (3%)	1 (3%)	2 (6%)	-	30 (91%)	-	4.7	0.9	1.0	5.0	5.0
22.	NiTi instruments and canal preparation (p	re used for manual root lease tick as appropriate):	10 (30%)	-	3 (9%)	-	20 (61%)	-	3.6	1.8	1.0	5.0	5.0

23.	Which NiTi instruments do the students use for	manual root ca	anal preparat	ion (multiple	e answers p	oossible, pleas	se specify)?					
	Ni-Ti-Instruments	Universities	s (%)									
	K-Files (among other files)	18 (55%)									
	Diverse files: K-Flex, ProTape, NiTiFlex	4 (12%))									
	Hedstroem-Files	5 (15%))									
	C-files	4 (12%))									
	Reamer-Files	2 (6%)										
24.	Students learn manual root canal preparation v	vith hand instrur	ments in the	following te	chnique (m	ultiple answer	s possible, pl	lease specify):			
	Techniques of root canal treatments	Universities ((%)									
	Apical-coronal/Step-Back	24 (73%)										
	Crown Down	4 (12%)										
	Balanced Force	4 (12%)										
	Diverse techniques	3 (9%)										
	Standardized Technique	2 (6%)										
	Crown Down/Step-Back	2 (6%)										
	n/a	1 (3%)										
		Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		0	2	3	4	5	6					
25.	Students learn mechanical root canal preparation with rotary/reciprocal instruments (please tick as appropriate):	4 (12%)	-	1 (3%)	-	28 (85%)	-	4.4	1.3	1.0	5.0	5.0

26. Students learn how to prepare root canals mechanically with the following instruments (please specify):

Rotary/reciprocal instruments	Universities (%)
Reciproc-VDW	15 (45%)
MTwo	6 (18%)
ProTaper Next	5 (15%)
Diverse e.g.: VDW Rotate, WOG, F6 Skytaper, Flexmaster	4 (12%)
F360	5 (15%)
WaveOne Gold	3 (9%)
none	3 (9%)

27. Students use the following root canal irrigations (please specify):

Irrigating solution:	Universities (%)
NaOCI	25 (76%)
СНХ	14 (42%)
EDTA	11 (33%)
Citric acid	8 (24%)
Ethanol	7 (21%)
NaCl	4 (12%)
Water	4 (12%)
No NaOCI for safety reasons:	6 (18%)

28. The root canal irrigations are activated by (please specify):

Activation of the irrigating solution	Universities (%)
Activation of irrigation solution	16 (48%)
Ultrasound (Sonicflex®, PUI)	6 (18%)
Sound activated (EDDY®, Endoaktivator®)	12 (36%)
Not used in phantom course	14 (42%)
n/a	3 (9%)

								Mean	Std.dev.	Min.	Max.	Median
								Micro-	Micro-	Micro-	Micro-	Micro-
20	Number of microscopes available in the		cnocify):					scope	5 Q		32 0	1 0
29.	Number of microscopes available in the	5.2	5.5	0.0	52.0	1.0						
	Dental microscope Uni	versities (%)										
	0 6	(18%)										
	1-2 16	6 (48%)										
	3-4 5	(15%)										
	5-10 4	(12%)										
	14 1	(3%)										
	32 1	(3%)						_				
		Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		0	2	3	4	5	6					
30.	Students regularly use a microscope for root canal treatment (please tick as appropriate):	13 (40%)	-	12 (36%)	-	8 (24%)	-	2.7	1.6	1.0	5.0	3.0
31.	Students regularly use magnifying glasses for canal treatment (please tick as appropriate):	root 3 (9%)	-	9 (27%)	-	21 (64%)	-	4.1	1.3	1.0	5.0	5.0

32.	Students regularly use a microscope for root canal treatment (please tick as appropriate):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		0	2	3	4	5	6					
32.1.	Calcium hydroxide (Ca(OH)2)	12(36%)	-	2 (6%)	-	11 (33%)	-	2.9	1.9	1.0	5.0	3.0
32.2.	Mineral trioxide aggregate (MTA)	14 (42%)	-	1 (3%)	-	11 (33%)	-	2.8	1.9	1.0	5.0	1.0
32.3.	B. Biodentine (Septodont, Niederkassel) 17 (52%)		-	2 (6%)	-	6 (18%)	-	2.1	1.7	1.0	5.0	1.0
32.4.	Other (please specify):											
33.	Students use the following type of interv	visit medication (please	specify):									
	Inter-visit medicaments	Universities (%)										
	Calcium Hydroxide	27 (82%)										
	Ledermix®	8 (24%)										
	Calcium Hydroxide + CHX	2 (6%)										
	Odontopaste®	1 (3%)										
	Not used in phantom course	3 (9%)										
34.	Students use the following root canal filli	ing pastes (sealer) (ple	ase specify):									
	Root canal sealer	Universities (%)										
E	poxy resin -Sealer: AH Plus®, 2Seal®,	30 (91%)										
С	alcium Hydroxide -Sealer: Seal apex®	2 (6%)										
С	alcium silicate -Sealer: BioRoot RCX®	2 (6%)										
Sea	er on silicone base: Roeko Seal®	1 (3%)										

35.	Students perform the root canal filling as follows (multiple answers possible, please specify):												
	Root canal filling techniques Universities (%)												
	Lateral compaction 28 (85%)												
	Single cone method	6 (18%)											
	warm vertical compaction												
warm vertical compaction with Continuous Wave Technik (Buchanan)		1 (3%)											
Gut	apercha carrier pin system: Thermafil ®	1(3%)											
	n/a	1 (3%)											
36.	Students treat the tooth after completion of the root canal treatment as follows (please tick as appropriate):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median	
		1	2	3	4	5	6						
36.1.	Temporary restoration (e.g. cement filling)	13 (40%)	-	_	-	14 (42%)	-	3.1	2.0	1.0	5.0	5.0	
36.2.	Definitive restoration (e.g. adhesive filling)	14 (42%)	-	-	-	25 (76%)	-	4.4	1.4	1.0	5.0	5.0	
36.3.	Other (please specify):												

			Mean days	Std.dev. days	Min. days	Max. days	Median days
37. In how many treatment steps/days sl	nould the root canal treatme	t be completed? (please specify):	4.9	4.9	1.5	20.0	3.0
Treatment days or course days	Universities (%)						
1-3	10 (33%)						
5-7	2 (6%)						
10	1 (3%)						
20	1 (3%)						
not relevant	11 (33%)						
depending on situation	4 (12%)						
n/a	4 (12%)						
			Mean	Std.dev.	Min.	Max.	Median
		C	of teeth	of teeth	of teeth	of teeth	of teeth
38. Students prepare and fill at least this	number of teeth, both huma	n and simulated (please specify):	6.5	3.9	1.0	18.0	6.0
Minimum number of teeth to be prepared and filled (extracted, industrial)	Universities (%)						
1-3	7 (21%)						
4-6	11 (33%)						
7-10	8 (24%)						
11-13	4 (12%)						
14-18	2 (6%)						
n/a	1 (3%)						

١	VII. Examinations in Theoretical and Practical Endodontology												
39.	The theoretical content is tested in the following situations (multiple answers possible, please tick as appropriate):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median	
		1	2	3	(4)	5	6						
39.1.	On a written examination with free text	15 (45%)	-	-	-	13 (40%)	-	2.9	1.9	1.0	5.0	1.0	
39.2.	On a written examination, e.g. multiple-choir format, with one correct answer	ce 9 (27%)	-	1 (3%)	-	18 (55%)	-	3.6	1.7	1.0	5.0	5.0	
39.3.	On a written examination, e.g. multiple-choir format, with several correct answers	ce 12 (36%)	-	1 (3%)	-	17 (52%)	-	3.3	1.9	1.0	5.0	5.0	
39.4.	In an oral examination	16 (48%)	-	2 (6%)	-	11 (33%)	-	2.7	1.9	1.0	5.0	1.0	
39.5.	In a structured oral examination (OSOE = Objective Structured Oral Examination)	20 (61%)	-	1 (3%)	-	5 (15%)	-	1.8	1.6	1.0	5.0	1.0	
39.6.	Other (please specify):												
40.	The practical content is tested in the following settings (multiple answers possible, please tick as appropriate):	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median	
		1	Ø	3	4	5	6						
40.1.	On patients	33 (100%)	-	-	-	-	-	1.0	0.0	1.0	1.0	1.0	
40.2.	OSCE = Objective Structured Clinical Examination	16 (48%)	-	-	-	10 (30%)	1 (3%)	2.7	2.0	1.0	6.0	1.0	
40.3.	Portfolio	21 (64%)	-	-	-	1 (3%)	3 (9%)	1.8	1.7	1.0	6.0	1.0	
40.4.	In an alternative format (e.g., Mini-CEX = Mini-Clinical Evaluation Exercise, DOPS = Direct Observation of Procedural Skills)	21 (64%)	-	-	-	5 (15%)	2 (6%)	2.1	1.9	1.0	6.0	1.0	
40.5.	On human extracted teeth	10 (30%)	-	1 (3%)	-	18 (55%)	-	3.5	1.9	1.0	5.0	5.0	
40.6.	On industrially produced standardised simulation teeth made of plastic (e.g. Morita model teeth)	11 (33%)	-	-	1 (3%)	18 (55%)	-	3.5	1.9	1.0	5.0	5.0	
40.7.	On patient-specific DVT-based plastic simulation teeth	25(76%)	-	-	1 (3%)	2 (6%)	-	1.4	1.1	1.0	5.0	1.0	
40.8.	The test teeth are installed in endodontic models (please tick as appropriate)	10 (30%)	-	-	-	19 (58%)	-	3.6	1.9	1.0	5.0	5.0	
40.9.	The test teeth are measured endometrically (please tick as appropriate)	15 (45%)	-	-	1 (3%)	13 (40%)	-	2.9	1.9	1.0	5.0	1.0	
40.10.	Other (please specify):												

41.	The evaluation of the theoretical/practical tests is carried out (multiple answers possible, please tick as appropriate):	Completely disagree	Disagre	e Un- decideo	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		0	0	3	4	5	6					
41.1.	By a central office	15 (45%)	-	-	-	6 (18%)	1 (3%)	2.3	1.9	1.0	6.0	1.0
41.2.	By one dentists	16 (48%)	-	-	-	8 (24%)	1 (3%)	2.5	1.9	1.0	6.0	1.0
41.3.	By several dentists	4 (12%)	-	-	-	23 (70%)	1 (3%)	4.5	1.4	1.0	6.0	5.0
41	.4. Other (please specify):								<u> </u>		1	
42.	The pass mark is (please tick as appropriate)	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
		1	2	3	4	5	6					
42.1.	60%.	2 (6%)	-	-	-	26 (79%)	-	4.7	1.0	1.0	5.0	5.0
42.2.	Different than 60%	11 (33%)	-	-	-	5 (15%)	-	2.2	1.8	1.0	5.0	1.0
42.3.	Determined individually	13 (40%)	-	2 (6%)	-	3 (9%)	-	1.9	1.5	1.0	5.0	1.0
42.4.	Other (please specify):											
	VIII. Learning Goals											
43.	The following learning objectives/goals are taught in your curriculum (multiple answers possible, please tick as	Completely disagree	Disagree	Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
	The graduates can:	n	0	3	4	5	6					
-		Ŭ										
43.1.	explain the etiology and pathogenesis of pulmonary and periradicular diseases.	1 (3%)	-	1 (3%)	5 (15%)	26 (79%)	-	4.7	0.8	1.0	5.0	5.0
43.2.	diagnose pulp and periapical diseases.	1 (3%)	1 (3%)	3 (9%)	7 (21%)	21 (64%)	-	4.4	0.9	1.0	5.0	5.0
43.3.	carry out the prevention of pulp and periradicular diseases.	2 (6%)	2 (6%)	2 (6%)	6 (18%)	21 (64%)	-	4.3	1.3	1.0	5.0	5.0
43.4.	plan the endodontic treatment and carry it out.	1 (3%)	-	-	6 (18%)	26 (79%)	-	4.7	0.8	1.0	5.0	5.0
43.5.	in particular, use primary, but also secondary evidence collected and critically evaluated to make decisions on a medical/dental issue in everyday dental practice.	⁷ 2 (6%)	3 (9%)	7 (21%)	5 (15%)	12 (36%)	4 (12%)	4.0	1.4	1.0	6.0	4.0

	IX.	Other												
				Completely disagree	Disagree	e Un- decided	Agree	Strongly agree	Do not know	Mean	Std.dev.	Min.	Max.	Median
				0	2	3	4	5	6					
44.	The co succe	ourses are regularly evalu ss (please tick as appropr	lated for riate).	1 (3%)	1 (3%)	3 (9%)	6 (18%)	21 (64%)	1 (3%)	4.4	1.0	1.0	6.0	5.0
45.	l cons regarc subjec tick as	ider an exchange with oth ding the examination form of endodontology to be appropriate).	ner universities ats for the useful (please	1 (3%)	-	3 (9%)	1 (3%)	27 (82%)	1 (3%)	4.5	0.9	1.0	6.0	5.0
46.	There univer appro	is already an exchange w rsities in Germany (please priate).	vith other e tick as	12 (36%)		15 (45%)) -	14 (42%)	2 (6%)	3.3	1.9	1.0	6.0	5.0
	Excha spec	ange with (please ify):												
47.	There interna appro	is already an exchange w ational universities (please priate).	vith other e tick as	23 (70%)	_	1 (3%)	_	6 (18%)	3 (9%)	2.24	1.9	1.0	6.0	1.0
	Excha specif	inge with (please y):		23 (1076)	-	1 (376)		0 (10%)	3 (376)					
48.	There for en appro	is a special department/p dodontology (please tick a priate).	oolyclinic only as	24 (73%)	-	4(12%)	1 (3%)	4(12%)	-	1.8	1.42	1.0	5.0	1.0
										Mean Euro	Std.dev. Euro	Min. Euro	Max. Euro	Median Euro
49.	What	are the endodontology ma	aterial costs for t	he course per	student in E	uro (please	specify)?			127.50	94.40	0.00	370.00	100.00
	C	osts in Euro	Universitie	es (%)										
		0-50€	3 (9%	b)										
		51-100€	6 (18%	%)										
		101-200€	4 (12%	%)										
		201-300€	1 (3%	b)										
		>301€	1 (3%	b)										
	No a	answer possible	12 (369	%)										
		n/a	7 (21%	%)										

50. Here you can enter in free-text format, if necessary, what else you think is worth mentioning on the subject of student training in preclinical endodontology in the Phantom Course in operative dentistry.

With regard to the new dental licensing regulations, this evaluation must be questioned with regard to the current status since the implementation of the new regulations will certainly require an adjustment and all the data here will no longer be valid after October 2020.

The questionnaire is only conditionally applicable to this university.

We regularly invite companies to present their views on future progress in endodontology to those already trained by us and to members of the teaching staff. Furthermore, there is a private continuing education group for people interested in endodontics which also regularly organises local events.

In the endodontic part of the phantom III course at least one dental colleague (with a focus on endodontology) is already involved in the practical supervision of the students for two half days per week.