Supplemental Material

Table S1 - Inclusion/Exclusion Criteria

Inclusion criteria:

- Population:
 - O Adults presenting with acute dental pain and/or infection
 - Any healthcare setting or service (not limited to dentistry)
- Intervention
 - Any care provided for the relief of acute dental pain or treatment of acute dental infection, including operative and pharmacological treatment and other nonpharmacological approaches (including advice only or referral to other services).
- Outcome
 - All outcomes measured and reported by the study which are related to the relief of acute dental pain or treatment of acute dental infection.
- Study/publication type
 - o Primary research reported in peer reviewed journals
 - English language only

Exclusion criteria:

- Population
 - o Animal studies
 - o In-vitro / lab-based studies
 - o People under the age of 18 years
 - People with other oral or dental conditions (eg emergency dental conditions such as cervico-facial infections requiring hospitalisation, dental trauma or haemorrhage following an extraction; oral cancer; or chronic conditions such as chronic facial pain, TMD or trigeminal neuralgia)
 - People attending for routine preventative care
 - People attending for postoperative pain following routine/scheduled dental care eg removal of third molars
 - o People with unusual medical conditions eg glucose-6-dehydrogenase deficiency
 - o Papers which include both adults and children
 - o Papers which include non-acute as well as acute conditions
 - o Paper which included non-dental as well as dental conditions
- Intervention
 - Approaches outside of conventional guidelines eg holistic or complementary therapies including acupuncture
- Outcomes
 - Outcomes which are not related to the relief of acute dental pain or treatment of acute dental infection.
 - Outcomes relating to local anaesthesia to enable treatment
- Study/publication type:
 - Systematic review
 - o Guidelines and guideline development
 - o Trial Protocol
 - o Opinion piece/Commentary/Review articles/Case Reports/Letters
 - Qualitative studies
 - Studies if updates had subsequently been published
 - o Manuscript not in English (e.g. abstract in English but not the rest)
 - No abstract available or only an abstract available

Table S2 – Search terms for each database

Database	Population search terms	Boolean	Intervention search terms	Limitations employed			
		Operator					
CINAHL Plus (EBSCO	((Acute* or Urgent or	AND	(Procedure or Treat* or Endodont* or	English Language			
Host)	Unschedul* or Emergenc*)		Exodont* or Extract* or Extirpat* or Incis*	Academic Journals			
	AND (Dent* or Odontogenic		or Drain* or Debrid* or Irrigat* or Prescri*				
	or Dentoalveolar) AND		or Antibiotic* or Antimicrob* or Antiseptic				
	(Pain or Toothache or		or Analgesi* or Advice or Refer* or Patient				
	Pulpitis or Infection or		Care or Dental Care or Procedure or Treat*				
	Swell* or Abscess or		or Endodont* or Exodont* or Extract* or				
	Pericoronitis or Osteitis or		Extirpat* or Incis* or Drain* or Debrid* or				
	Socket or Periodontitis or		Irrigat* or Prescri* or Antibiotic* or				
	Implantitis or Ulcer* or		Antimicrob* or Antiseptic or Analgesi* or				
	Stomatitis))		Advice or Refer*)				
Dentistry and Oral Science	((Acute* or Urgent or	AND	(Procedure or Treat* or Endodont* or	English Language			
Sources (EBSCO Host)	Unschedul* or Emergenc*)		Exodont* or Extract* or Extirpat* or Incis*	Academic Journals			
	AND (Dent* or Odontogenic		or Drain* or Debrid* or Irrigat* or Prescri*				
	or Dentoalveolar) AND		or Antibiotic* or Antimicrob* or Antiseptic				
	(Pain or Toothache or		or Analgesi* or Advice or Refer* or Patient				
	Pulpitis or Infection or		Care or Dental Care or Procedure or Treat*				
	Swell* or Abscess or		or Endodont* or Exodont* or Extract* or				
	Pericoronitis or Osteitis or		Extirpat* or Incis* or Drain* or Debrid* or				
	Socket or Periodontitis or		Irrigat* or Prescri* or Antibiotic* or				
	Implantitis or Ulcer* or		Antimicrob* or Antiseptic or Analgesi* or				
	Stomatitis))		Advice or Refer*)				
EMBASE (Ovid Online)	((Acute* or Urgent or	AND	(Procedure or Treat* or Endodont* or	English Language			
	Unschedul* or Emergenc*)		Exodont* or Extract* or Extirpat* or Incis*	Human			
	AND (Dent* or Odontogenic		or Drain* or Debrid* or Irrigat* or Prescri*				
	or Dentoalveolar) AND		or Antibiotic* or Antimicrob* or Antiseptic				
	(Pain or Toothache or		or Analgesi* or Advice or Refer* or Patient				
	Pulpitis or Infection or		Care or Dental Care or Procedure or Treat*				
	Swell* or Abscess or		or Endodont* or Extract* or				
	Pericoronitis or Osteitis or		Extirpat* or Incis* or Drain* or Debrid* or				
	Socket or Periodontitis or		Irrigat* or Prescri* or Antibiotic* or				

	Implantitis or Ulcer* or		Antimicrob* or Antiseptic or Analgesi* or	
	Stomatitis)).mp		Advice or Refer*).mp	
Medline (Ovid Online)	((Acute* or Urgent or	AND	(Procedure or Treat* or Endodont* or	English Language
	Unschedul* or Emergenc*)		Exodont* or Extract* or Extirpat* or Incis*	Human
	AND (Dent* or Odontogenic		or Drain* or Debrid* or Irrigat* or Prescri*	
	or Dentoalveolar) AND		or Antibiotic* or Antimicrob* or Antiseptic	
	(Pain or Toothache or		or Analgesi* or Advice or Refer* or Patient	
	Pulpitis or Infection or		Care or Dental Care or Procedure or Treat*	
	Swell* or Abscess or		or Endodont* or Exodont* or Extract* or	
	Pericoronitis or Osteitis or		Extirpat* or Incis* or Drain* or Debrid* or	
	Socket or Periodontitis or		Irrigat* or Prescri* or Antibiotic* or	
	Implantitis or Ulcer* or		Antimicrob* or Antiseptic or Analgesi* or	
	Stomatitis)).mp		Advice or Refer*).mp	
PsychINFO (Ovid Online)	((Acute* or Urgent or	AND	(Procedure or Treat* or Endodont* or	English Language
	Unschedul* or Emergenc*)		Exodont* or Extract* or Extirpat* or Incis*	Human
	AND (Dent* or Odontogenic		or Drain* or Debrid* or Irrigat* or Prescri*	
	or Dentoalveolar) AND		or Antibiotic* or Antimicrob* or Antiseptic	
	(Pain or Toothache or		or Analgesi* or Advice or Refer* or Patient	
	Pulpitis or Infection or		Care or Dental Care or Procedure or Treat*	
	Swell* or Abscess or		or Endodont* or Exodont* or Extract* or	
	Pericoronitis or Osteitis or		Extirpat* or Incis* or Drain* or Debrid* or	
	Socket or Periodontitis or		Irrigat* or Prescri* or Antibiotic* or	
	Implantitis or Ulcer* or		Antimicrob* or Antiseptic or Analgesi* or	
	Stomatitis)).mp		Advice or Refer*).mp	
Scopus	Search within article title,	AND	(Procedure or Treat* or Endodont* or	Published Articles
	abstract, key words:		Exodont* or Extract* or Extirpat* or Incis*	English Language
	'((Acute* or Urgent or		or Drain* or Debrid* or Irrigat* or Prescri*	Human
	Unschedul* or Emergenc*)		or Antibiotic* or Antimicrob* or Antiseptic	
	AND (Dent* or Odontogenic		or Analgesi* or Advice or Refer* or Patient	
	or Dentoalveolar) AND		Care or Dental Care or Procedure or Treat*	
	(Pain or Toothache or		or Endodont* or Extract* or	
	Pulpitis or Infection or		Extirpat* or Incis* or Drain* or Debrid* or	
	Swell* or Abscess or		Irrigat* or Prescri* or Antibiotic* or	
	Pericoronitis or Osteitis or		Antimicrob* or Antiseptic or Analgesi* or	
	Socket or Periodontitis or		Advice or Refer*)	

	Implantitis or Ulcer* or Stomatitis))'			
Web of Science	Stomatitis))' ((Acute* or Urgent or Unschedul* or Emergenc*) AND (Dent* or Odontogenic or Dentoalveolar) AND (Pain or Toothache or Pulpitis or Infection or Swell* or Abscess or Pericoronitis or Osteitis or	AND	(Procedure or Treat* or Endodont* or Exodont* or Extract* or Extirpat* or Incis* or Drain* or Debrid* or Irrigat* or Prescri* or Antibiotic* or Antimicrob* or Antiseptic or Analgesi* or Advice or Refer* or Patient Care or Dental Care or Procedure or Treat* or Endodont* or Exodont* or Extract* or Extirpat* or Incis* or Drain* or Debrid* or	Articles English Language
	Socket or Periodontitis or Implantitis or Ulcer* or Stomatitis))		Irrigat* or Prescri* or Antibiotic* or Antimicrob* or Antiseptic or Analgesi* or Advice or Refer*)	

Table S3 – Quality assessment of the studies using Critical Appraisal Skills Programme (CASP) Checklist for Randomised Controlled Trials

	a) Is the basic study design valid for an RCT?			b) Was the s sound?	tudy methodol	ogically			c) What are the r	d) Will the in help?	Overall		
	1. Clear research question?	2. Random- isation?	3. All participants accounted for?	4a. Participants blinded?	4b. Investigators blinded?	4c. Analysts blinded?	5. Study groups similar at the start?	6. Same treatment for each group?	7. Comprehensive reporting?	8. Benefits vs harms/costs?	9. Locally applicable?	10. Better than existing care?	Include?
Fazakerley et al, 1993	Yes	Yes	Yes	Yes	Yes	Can't tell	Can't tell	Yes	Yes	Yes	Yes	Yes	Yes
Fouad et al,	103	103	103	103	103	Cantien	Can t ten	103	103	103	103	103	103
1996	Yes	Yes	Yes	Yes	Yes	Can't tell	Can't tell	Yes	Yes	Yes	Yes	Can't tell	Yes
Houck et al, 2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nagle et al, 2000 Pavithra et	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
al, 2015 Santini et	Yes	Yes	Yes	Yes	Yes	No	Can't tell	Yes	No	Yes	Yes	Yes	Yes
al, 2017 Beus et al,	Yes	Yes	Yes	Yes	Yes	Can't tell	Yes	Yes	Can't tell	Can't tell	No	Can't tell	Yes
2018 Eren et al,	Yes	Yes	Yes	Yes	No	Can't tell	Yes	Yes	No	Yes	Yes	Can't tell	Yes
2018 Wolf et al,	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2019 Al-Rawhani	Yes	Yes	Yes	Can't tell	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
et al, 2020 da Silva et	Yes	Yes	Yes	Yes	Yes	Can't tell	Yes	Yes	Yes	Yes	Yes	Yes	Yes
al, 2020	Yes	Yes	Yes	Yes	Yes	Can't tell	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Supplemental material

	Explicit theoretical framework	Aims in main report	Setting described	Sample size considered	Sample of reasonable size	Data collection method	Choice of data collection tool(s)	Detailed recruitment data	Measuring tool assessed	Question and method fit - data collection	Question and method fit - analysis	Analysis method selected	Users involved in design	Strength/ limitation discussion	Total (% of maximum)
Scoring: 0 = No mention; 1=very slightly covered; 2=Moderately covered; 3=Completely covered. Where independent reviewer scores differed, averages are provided.															
Gibson et al,	0	2	2	0	2			2	0	2	2	1	1	2	21 (53%)
1993 Nusstein et al,	0	2	2	0	3	2	1	2	0	3	2	1	1	2	
2002	1	3	2	0	0	3	2	3	1	2	3	1	0	1	22 (55%)
Campanelli et		3	2	O	O	3	2	3		2	3		Ü		
al, 2008	0	2	3	0	1	3	0	3	1	3	3	1	0	1	21 (53%)
Cohen et al,															26 (000)
2009	3	3	3	1	2	3	3	3	1	3	3	3	3	2	36 (90%)
Wilson et al,															23 (58%)
2013	0	1	3	0	1	1	3	2	1	2	2	1	3	3	23 (30%)
Aaron et al,															24 (60%)
2018	0	3	3	3	3	3	1	0	0	3	2	1	0	2	(, , ,
Penniston et al, 1996	0	2	3	3	1	2	0	2.5	0	3	3	1	0	0	20.5 (51%)
Adriaenssen et	U	2	3	3	1	2	U	2.3	U	3	3	1	U	U	
al, 1998	2	1	3	3	3	2	1	2	0	1	2	0	0	0	20 (50%)
Doroschak et	-	•	3	5	5	2	•	-	o o	•	-	Ü	Ü	Ü	
al, 1999	3	3	3	2	1	3	3	2.5	2	3	3	1	0	2	31.5 (79%)
Gallatin et al,															22 (55%)
2000	3	3	1	0	1	3	1	3	0	3	2	1	0	1	22 (55%)
Henry et al,															22 (55%)
2001	3	3	1	0	1.5	2.5	0	3	0	3	2	1	0	2	22 (33 %)
Hersh et al,	_	_	_	_	_	_	_		_	_	_	_	_	_	30 (75%)
2003	3	3	3	0	3	2	3	3	0	3	3	2	0	2	()
Runyon et al, 2004	3	3	2	3	3	3	1	3	0	3	3	2	0	3	32 (80%)
Sethi et al,	3	3	2	3	3	3	1	3	U	3	3	2	U	3	
2014	1	3	1	2	3	3	3	3	0	3	3	2	0	1	28 (70%)
Bultema et al,		3		2	3	3	3	3	O	3	3	2	Ü		
2016	3	3	1	0	3	2	2	3	0	3	3	1	0	2	26 (65%)
Sebastian et al.	2		*	Ü		_	_	3	J	2	,	•	3	-	21 (526)
2016	2	3	1	0	3	2	1	3	0	2	2	1	0	1	21 (53%)
Taggar et al,															26 (65%)
2017	3	3	1	1	3	3	1	3	0	2	2	1	0	3	20 (03%)