Questions and Answers in EBD Volumes 3 and 4

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Previously¹ we have outlined the Questions and Answers addressed by summaries in EBD volumes one and two. Here we list a further 84 questions, answers and evidence levels of areas addressed in EBD volumes 3 and 4. Evidence levels² are only given for those papers achieving level 3A and above.

Question	Answer	Evidence level	Volume and page number
Cariology Is a glass ionomer fissure sealant effective in reducing occlusal caries?	Glass ionomer sealant has a caries-preventive effect	1B	4.79
Are there clear agreed definitions for early or severe childhood caries?	No — There is a clear need for Internationally accepted definitions		3.75
Cosmetic Dentistry Are dentist prescribed home applied tooth whitening agents effective?	On average a 2 shade guide improvement in colour can be achieved with no adverse effects	1A	3.76
Dental Education Are computer-aided learning (CAL) programmes effec- tive in teaching dental students?	CAL programmes are as effective as other methods	1A	4.81
Dental Implants Do hydroxyapatite implants survive as long as titanium ones?	The review suggests that survival rates for both sets of implants are similar, but that more work and better	2A	3.77–78
Does the use of dental implants in edentulous patients result in better quality of life compared with conventional treatment?	Implant patients had better quality of life in this short term follow-up study	1B	3.73–74
Endodontics In patients with radiographically determined failure of surgical endodontics what is the success rate of repeat surgery?	Success rate for repeat surgery was found to be 37.5%	2A	4.51
Infection Control How well do dental team members follow infection control guidelines?	Compliance has improved but work needs to be done to improve important gaps that do exist	18	4.33
Oral Cancer What is the discriminatory ability of visual oral cancer	Discriminatory ability is high irrespective of grade and	2A	3.79–80
Does information about oral cancer encourage primary care patients to accept oral cancer screening?	A simple leaflet in primary health care setting can change knowledge about oral cancer and increase intention to go for screening and reduce anxiety about	1B	4.68
What are the risk factors associated with the develop- ment of oral cancer in young people?	screening Oral cancer has increased in people aged under 45. Tobacco and alcohol use may be involved but clear risk factors are yet to be identified. More work is required to	2B	4.7
ls human papilloma virus (HPV) a risk factor for oral cancer?	identify risk factors in younger people Both oral dysplasia and oral cancer are more commonly associated with HPV than normal mucosa		4.29
Oral Medicine Which antifungal agent is the most effective in oropharyngeal candidiasis?	A number of effective agents are available. Because of drug resistance it seems sensible to limit their use to	1A	4.14
Does systemic penicillin improve pain control in patients with irreversible pulpitis?	reaument of clinically evident oral candidal infection Evidence suggests that use of antibiotics does not help in pain relief of irreversible pulpitis	1B	3.72
What are the features of cluster headaches?	The review provides encouraging results and guidelines	2A	4.10

QUESTIONS AND ANSWERS

2A

3A

1B

1B

1B

2A

1A

1A

1B

1B

3A

1A

2A

1A

1A

1A

4.86

4.15

3.67-68

3.100-101

3.107-108

4.53-54

4.52

4.80

4.82

3.52

4.16

4.30

3.10

4.49-50

3.12-13

3.11

4.66

3.66

In patients with hypertension does use of epinephrine
containing anaesthetic solution or epinephrine impreg-
nated retraction cord produce adverse cardiovascular outcomes?

for appropriate management

regional block anaesthesia

normalised ratio was <4.1

more research needed

present

TMD.

dose aspirin prior to minor oral surgery

tude of an optimum orthodontic force

that there are characteristic features

particular treatment method.

patients

Epinephrine in dental local anaesthetics has little effect

on blood pressure and heart rate in hypertensive patients at doses equivalent to one or two cartridges. There is no reliable evidence concerning the safety of epinephrine in gingival retraction cord in hypertensive

. The available evidence suggests that complication from

intra-oral procedure for HIV/AIDS patients is low so they

This small trial showed similar effectiveness during

infiltration anaesthesia - more studies are needed in

This trial suggests that it is not necessary to stop low-

The study in a hospital situation showed that there was

no need to stop anticoagulation in the International

Retractor use was associated with an increase in

temporary nerve damage, but neither protective nor detrimental with respect to permanent damage Current evidence suggests that enucleation with appli-

cation of Carnoy's solution provides best outcome but

There is no clear evidence to provide an answer at

There is currently no evidence identifying the magni-

This paper adds weight to the evidence that orthodon-

tic treatment does not predispose patients to TMD later

in life and that most malocclusions, with the exception of lateral displacements on closing and/or unilateral crossbite, are not associated with the development of

This trial showed increased bracket failure with hydro-

The quality of the available data is limited but suggests

No reliable evidence to support the superiority of one

Targeted supervised toothbrushing with home support

Evidence suggests that PMCs are more effective than

Some evidence for increasing attachment loss but

Currently the evidence for possible effect of EMD in

can produce significant reduction in caries levels.

amalgam restoration but more research required

factors for success and failure not clear

treatment of intrabony defects is small

No strong evidence to support effectiveness

philic primer but involved small numbers of patients

may be treated in dental practice as other patients

Are people with HIV/AIDS at greater risk of complications from intra-oral dental procedures than HIVnegative patients?

Oral Surgery

Is ropivacaine as effective as bupivacaine?

Is it necessary to stop low-dose aspirin prior to oral surgery?

Do you need to discontinue anticoagulants before routine dental extractions?

Does the use of a lingual retractor increase the risk of nerve damage during third molar extraction?

What treatment is best for people with odontogenic keratocvsts?

Orthodontics

What is the most effective adhesive for bonding orthodontic brackets to teeth? What is the optimal force required for orthodontic tooth movement? Does orthodontic treatment have any consequences for

the long-term development of signs and symptoms of temporomandibular disorders?

Is a hydrophilic or conventional primer more effective in orthodontic bonding?

Are there characteristic features of the craniofacial skeleton in patients of children who have orofacial clefting?

Paediatric Dentistry

In children with pulpally involved primary molars what pulp treatment techniques are effective in retaining the tooth and avoiding long-term sequelae?

In children with high-risk of dental caries is supervised toothbrushing effective in reducing disease? Are preformed metal crowns (PMCs) more effective than amalgam restorations in primary molars?

Periodontology

Is guided tissue regeneration effective in treatment of infra-bony pockets? Is potassium nitrite containing toothpaste effective in

reducing dentine hypersensitivity? In patients with intrabony defects is surgery with enamel matrix derivative (EMD) more effective than

other treatments?

Is the use of grafting biomaterials or biological agents and open flap debridement (OFD) more effective than OFD alone for deep intra-osseous pockets?

Do adjunctive systemic antimicrobials improve clinical outcome of scaling and root planing in treatment of periodontitis?

In people with gingivitis and periodontitis are powered toothbrushes more effective than manual ones in reducing bleeding and inflammation?

When treating chronic periodontitis, are machinedriven more effective than hand instruments?

What is the quality of randomised controlled trials (RCT) in periodontology?

In patients who have periodontitis, what is the effect of

Currently there is no evidence to support the use of these graft materials and biological agents for treating periodontal intra-osseous pockets	1A	4.64–65
Periodontal treatment may be more effective with adjunctive antimicrobials	1A	4.62
Powered brushes particularly counter-rotational and oscillation rotating brushes are more effective	1A	4.57
There are no obvious clinical differences but ultrasonic/ sonic instruments provide a small time saving. More research is needed in particular regarding patient related benefits.	1A	4.56
The quality of RCT reporting in periodontology (and probably other dental disciplines) needs to improve	1A	4.3
This study shows a negative effect of smoking on	1B	4.6
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QUESTIONS AND ANSWERS

smoking on the response to access flap surgery?	gingival surgery but more studies are required to clarify		
In patients with moderate to advanced periodontal disease, is scaling plus minocycline microspheres more effective than scaling along?	the real effect This study shows a statistical benefit but further studies would be needed to show a convincing clinical benefit	1B	4.5
In patients having intra-bony periodontal defects treated with enamel matrix proteins, does the use of post surgical antibiotics improve outcome?	No advantage in using systematic antibiotics in this type of surgery had been demonstrated	1B	4.4
In patients undergoing periodontal scaling and root planning, is an anaesthetic gel effective in producing pain relief?	No clear answer yet	1B	4.78
Is subantimicrobial dose doxycycline in conjuction with subgingival scaling and root planning effective in treatment of adult periodontitis?	The trial did not provide a definitive answer	1B	3.14–15
In patients with buccal gingival recession is periodontal plastic surgery effective?	With the exception of free gingival grafts and lateral sliding flaps, most surgical techniques are successful at producing root coverage for Miller's Class I and II defects	2B	4.67
What is the prevalence of root sensitivity after period-	Current best evidence suggest over half of all patients	2B	4.63
Is subgingival debridement clinically effective in people who have chronic periodontitis?	subgingival debridement and plaque control is effective in reducing pocket depth and improving attachment	2B	4.61
Is periodontitis associated with coronary heart disease, preterm birth and low birth weight?	While studies do show an association there is no evidence to recommend periodontal treatment to reduce coronary heart disease or preterm low birth weight	2C	4.58
Is guided tissue regeneration (GTR) more effective than connective tissue grafting (CTG) in the treatment of gingival recession defects?	There is no clinical advantage in using GTR over CTG in treatment of gingival recession defects	3A	3.103–104
Is it possible to distinguish between chronic and aggressive periodontitis based on presence of particular periodontal pathogens?	At present there is no evidence to support differentia- tion based on particular pathogenic bacteria		4.60
In patients with periodontal disease are residual probing depth, bleeding on probing and furcation status predictors of further attachment loss?	Residual probing depths may be an indication of further disease progression		4.59
Which anti-infective therapies are effective in peri- implantitis?	Evidence is absent for anti-infective treatment for peri- implantitis so good quality trials are needed		4.78
Preventive Dentistry Are fluoride mouth rinses effective in preventing caries?	Fluoride rinses reduce caries. Fluoride rinses are more effective in high caries areas. Background fluoride use has little influence on the preventive effect of fluoride rinses.	1A	4.85
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QUESTIONS AND ANSWERS

	high so it is difficult to give a good estimate of effect		
Is fluoridation associated with other negative effects?	The available evidence is insufficient to reach conclu-		3.49
Is fluoridation associated with cancer?	The available evidence showed no association but the evidence was of low quality		3.47-48
Are there differences between natural and artificial fluoridation?	The available evidence is insufficient to reach conclu- sions		3.50
Is fluoridation associated with bone fractures?	The available evidence showed no association but the evidence was of low quality		3.45–46
Is fluoridation associated with fluorosis?	There was an association between fluorosis and fluoridation and a dose-response was identified but the quality of the studies was low		3.43–44
Does fluoridation result in a reduction of caries across social groups bringing equity	Some evidence of a beneficial effect but quality of evidence and number of studies small		3.41–42
Does water fluoridation have an effect over and above that offered by alternative interventions and strategies?	Evidence not of high quality but suggests an effect over and above other sources of fluoride (eg toothpaste)		3.40
Radiography Can the use of a computer-assisted learning programme improve the ability of dental students to detect caries from bitewing radiographs?	A CAL programme can help to reduce caries detection variability	1B	4.77
Restorative Dentistry When patients require posterior restorations are ceramic restorations more effective than other restorative materials?	Little evidence to support any difference in clinical performance of ceramic restorations over other poster-	1A	4.31
Are dental appliances effective in the treatment of obstructive sleep appoea?	Dental appliances may be a useful adjunct in the treatment of obstructive sleep appoea	1B	3.51
Which material provided the best clinical properties for temporary restorations?	No difference were noted between material in this small study	1B	3.102
Which filing material last longest?	Amalgam had the best clinical performance but the quality of the included studies in the review was mediocre and there was little direct comparison of materials	3A	3.96–99
Temporomandibular Disorders			
Is occlusal adjustment effective for the treatment and prevention of temporomandibular joint disorders?	At present there is no evidence to support occlusal treatment in treatment or prevention of temporoman- dibular joint disorders	1A	4.32
Is arthrocentesis with sodium hyaluronate more effec- tive than arthrocentesis alone in people with tempor- omandibular derangements	Patients in both groups benefited from treatment with suggestion that those having sodium hyaluronate did better but trial is with small number of patients	1B	3.70–71
Is minimal treatment effective in people who have anterior disk displacement?	Results suggest that patients will normally improve with minimal treatment	1B	3.69
What are the long term predictors of signs and symptoms of temporomandibular disorders?	Parafunction, tooth wear, TMJ clicking and deep over- bite are possible predictors, but their predictive value require further study	2B	4.55

Lawrence A, Richards D. Questions answered in EBD Volumes 1 and 2. EBD 2002; 3:27–29.
 Richards D. Not all evidence is created equal — so what is good evidence. EBD 2003; 4:17–18.