Patient

Female, 10 years old

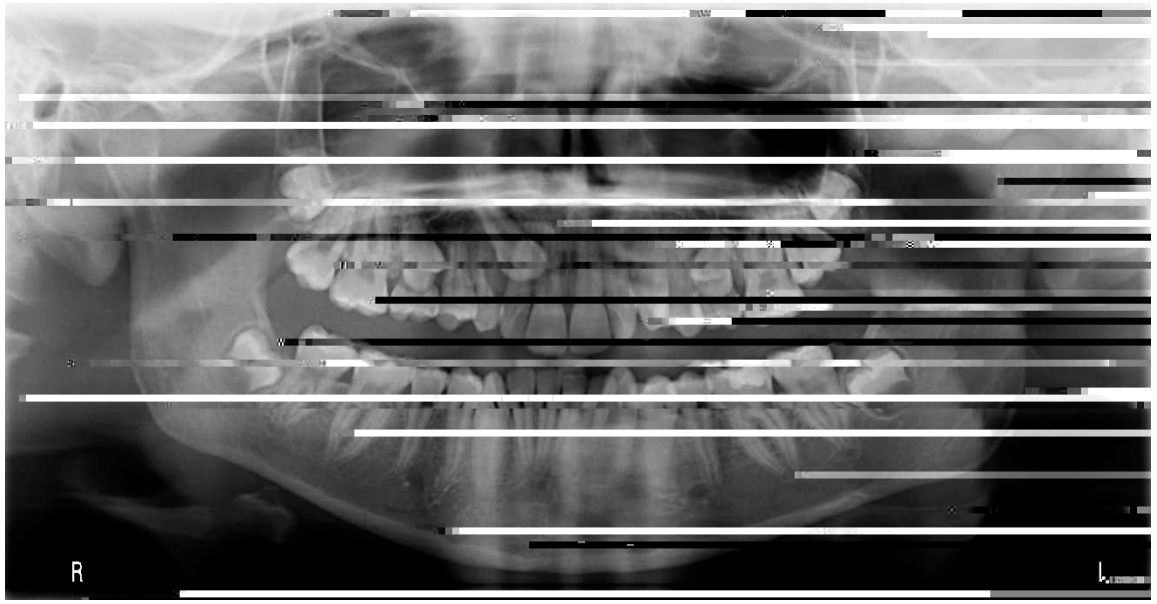
Chief Complaint

“My daughter is here for her regular check up.”

Background and/or Patient History

Current Findings

Which permanent tooth is least likely to spontaneously erupt?



A. 2
B. 5
C. 6
D. 29

Key: C
CC07, CC08, CC14
FK4
Field Test A

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient

Male, 60 years old

Chief Complaint

“My gums are bleeding for no apparent cause.”

Background and/or Patient History

Prosthetic heart valve
Medications:
- lithium (Lithobid®)
- metformin (Glucophage®)
- atorvastatin (Lipitor®)
- warfarin (Coumadin®)

Current Findings

Vital signs stable
No acute distress
Spontaneous gingival bleeding
INR: 5

Which mechanism of action most likely explains the current complaint?

A. Vitamin K inhibition
B. Direct thrombin inhibition
C. Antithrombin III activation
D. Platelet aggregation inhibition

Key: A
CC09, CC20
FK8, FK1
Field Test A

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Which is the best treatment for the labial buccal mucosal lesions?

A. Dexamethasone elixir
B.

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 48 years old
Chief Complaint
“I’ve been in pain for two days and now my face is swollen,”
Background and/or Patient History
Hyptertension Type 2 diabetes Penicillin allergy
Current Findings
Facial edema Lymphadenopathy Extensive apical radiolucency associated with tooth 6 Temp: 100.3 BP: 150/93 Blood glucose: 240 mg/dL

Where is the infection most likely located?

A. Buccal vestibule
B. Canine space
C. Nasal cavity
D. Pterygomaxillary space

Key: B
CC01, CC20, CC31
FK1, FK2, FK5, FK7
Field Test A

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

The most appropriate next step would be to:

A. discontinue current antibiotic and refer to physician.
B. discontinue current antibiotic and substitute with azithromycin (Z-Pak®).
C.

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Before extracting tooth 24, which one of the following is the best option?

A. No antibiotic administration is required.
B. Amoxicillin 2 grams should be taken 30 minutes to 60 minutes before procedure.
C.

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

What is most likely causing the chief complaint?

A.

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 9 years old
Chief Complaint
Parent: “My son was hit in the face

Which is most important to ask the parent first?

A. “Did the child lose consciousness?”
B. “Do you have the teeth?”
C. “When did the child last eat?”
D. “When did the injury occur?”

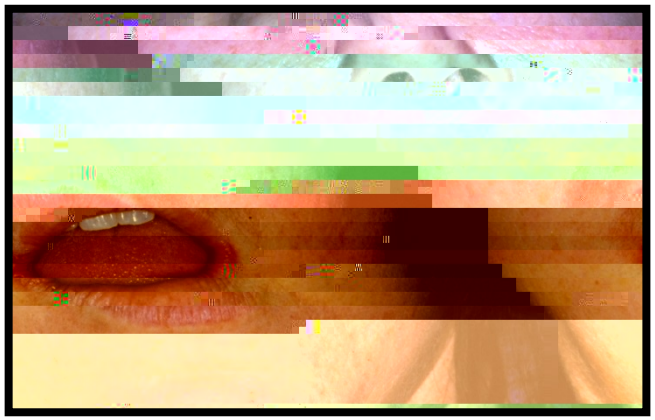
Current Findings

Key: A
CC19, CC31, CC38
FK2, FK 5, FK7
Field Test A

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 14 years old
Chief Complaint
“I can’t seem to get rid of the sores at the corners of my mouth.”
Background and/or Patient History
Painful lesion - recurrent, never go away entirely
Current Findings

The most appropriate treatment is:



A. acyclovir (Zovirax®) cream.
B. amantadine (Symmetrel®).
C. amlexanox (Aphthasol®).
D. nystatin and triamcinolone (Mycolog®-II) cream.

Key: D
CC09, CC19
FK8
Field Test A

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient

Chief Complaint

Before performing a crown lengthening surgery, which one of the following is the best option?

A. No antibiotic administration is required.
B. Amoxicillin 2 grams should be taken 30 minutes to 60 minutes before procedure.
C. Warfarin (Coumadin®) should be discontinued the morning before procedure.
D. Clarithromycin (Biaxin®) 500 milligrams should be taken 30 minutes to 60 minutes before procedure.

Current Findings

Key: B
CC19
FK8
Field Test A

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 60 years old
Chief Complaint
“My gums bleed easily.”
Background and/or Patient History
Paroxysmal supraventricular tachycardia Pulmonary embolism Type 2 diabetes Hypertension Hyperlipidemia Medications: metformin (Glucophage®) atorvastatin (Lipitor®) warfarin (Coumadin®) aspirin 81 mg daily
Current Findings
BP: 145/90 Diffuse gingival bleeding

Which mechanism of action most likely explains the chief complaint?

A. Antithrombin III inactivation
B. Coagulation activation
C. Thrombin inhibition
D. Vitamin K antagonism

Key: D
CC020
FK8

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 60 years old
Chief Complaint
“My gums bleed easily.”
Background and/or Patient History
Paroxysmal supraventricular tachycardia Pulmonary embolism Type 2 diabetes Hypertension Hyperlipidemia Medications: metformin (Glucophage®) atorvastatin (Lipitor®) warfarin (Coumadin®) aspirin 81 mg daily
Current Findings
BP: 145/90 Diffuse gingival bleeding

Which test would provide a definitive diagnosis of the complaint?

A. Bleeding time
B. International normalization ratio
C. Partial thromboplastin time
D. Platelet count
E. Serum vitamin K

Key: B
CC01, CC20
FK1

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 48 years old
Chief Complaint
“I’ve been in pain for two days and now my face is swollen.”

The most appropriate antimicrobial agent is:

A. amoxicillin and clavulanate (Augmentin®).
B. cephalexin (Keflex®).
C. clindamycin (Cleocin®).
D. metronidazole (Flagyl®).

[redacted]

Facial edema
Lymphadenopathy
Extensive apical radiolucency associated with tooth 6
Temp: 100.3 t1Ex60xMC /P <</MCID 61 3>BDC 0EMC ET /DC 0EMC E1 /P <</MI100.3 a g 0.001MI100.5Ho-0.00TJ EM0s.5Ho-56

Key: C
CC19, CC31, CC38
FK1, FK2, FK5, FK7

[redacted]

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Which screening radiograph would be most helpful in diagnosing a mandibular fracture?

A. Bitewing
B. Lateral cephalogram

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 9 years old
Chief Complaint
Parent: “My son was hit in the face with a baseball and he’s bleeding and missing teeth!”
Background and/or Patient History
Type 1 diabetes
Current Findings

Reimplantation is desired. What is the best way to protect permanent teeth after avulsion?

A. Place back into the sockets
B. Place under the tongue
C. Put in a cup of milk
D. Wrap in a wet napkin

Key: A
CC36, CC38
FK1, FK5, FK6

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 9 years old
Chief Complaint
Parent: “My son was hit in the face with a baseball and he’s bleeding and missing teeth!”
Background and/or Patient History
Type 1 diabetes
Current Findings

The fractured fragment of tooth 7 has not been found. What is the first step?

A. Administer appropriate pulp therapy
B. Ask the parent if there was a pre-existing fracture
C. Evaluate pulpal status
D. Radiographic image of lower lip

Key: B
CC01, CC03, CC06, CC08, CC31, CC32, CC38
FK1, FK2

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 37years old
Chief Complaint
“I have white stuff on my tongue.”
Background and/or Patient History
Recurrent low grade fever, fatigue, periodically feels cold and a little ill
Current Findings
White coating can be wiped off

What is the etiology of this condition?

A. Bacterial infection
B. Fungal infection
C. Viral infection
D. Vitamin B12 deficiency

Key: B
CC42
FK7

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

A drug has a half-life of 4 hours. Upon discontinuing the drug:

A. 87% will be eliminated in 8 hours.
B. 90% will be eliminated in 24 hours.
C. 94% will be eliminated in 12 hours.
D. 94% will be eliminated in 16 hours.

Key: C
CC20
FK6, FK8

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 65 years old
Chief Complaint
“A year ago I lost the filling in my back tooth.”

Physician referral is most urgent for the treatment of:

A. anxiety.
B. hypertension.
C. obesity.
D. smoking.

Current Findings
BP: 170/100 Height: 6’ 1”

Key: B
CC01, CC10
FK6, FK8

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Which mechanism of action most likely explains the current complaint?

A. Vitamin K inhibition
B. Direct

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 12 years old
Chief Complaint
“My teeth are crooked.”
Current Findings

Which permanent tooth is most likely to erupt next?

A. Tooth marked by a
B. Tooth marked by b
C. Tooth marked by c
D. Tooth marked by d

Key: D
CC??
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Which statement is correct regarding the prior skin tumor?

A. The depth of invasion is not important in establishing progno
B. It is formed by malignant Langerhans cells.
C. It is often associated with chronic actinic damage.
D. It

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

A patient has a maximum opening of 25mm. Each of the following could be a contribution. Which is the EXCEPTION?

A. Condylar ankylosis
B. Fatigue of the masseter muscle
C. Hypertrophy of the coronoid process
D. Pericoronitis

Key: B
CC05
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 45 years old
Chief Complaint
“My teeth look bad and are loose. I also have a sore throat and don’t feel good.”
Background and/or Patient History
Smoker (cigarettes), 12 pack-year history Factory worker
Current Findings
Temp: 101 F Malaise for 4-5 days Bilateral tender anterior cervical lymph nodes Bilateral enlargement of tonsils

The dentist refers the patient to his physician for the complaint of a sore throat. The patient is given a prescription for amoxicillin (Amoxil®), which is taken by the patient for the next three days. The patient returns two weeks later with complaints of pain in multiple joints and an epidermal rash on his trunk area. What is the most likely cause of these new signs and symptoms?

A. An allergy to amoxicillin (Amoxil®)
B. Bacterial endocarditis
C. Erythema multiforme
D. Rheumatic fever

Key: D
CC02
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 53 years old
Chief Complaint
“I don’t like the way I look. I want dentures.”
Background and/or Patient History
Cardiac bypass surgery, 3 years ago Right hip replacement, 5 years ago Prostate adenocarcinoma, 3 years ago Anxiety and Depression GERD Post-cancer osteoporosis Medications: alprazolam (Xanax®) bupropion (Wellbutrin®) clopidogrel (Plavix®) omeprazole (Prilosec®) simvastatin (Zocor®) zoledronic acid (Zometa®) Has not seen a dentist in 25 years Smoker (cigarettes), 30 pack-year history
Current Findings
Decayed and missing front teeth with periodontitis Sensitivity to cold in upper posterior left quadrant Xerostomia

Definitive management of the lesion would include:

A. an antifungal agent.
B. exfoliative cytology.
C. incisional biopsy.
D. tobacco cessation treatment.

Key: C
CC04
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Which is the most likely cause of the oropharyngeal signs and symptoms?

A.

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

A patient expresses the desire to quit smoking after a 40 pack-year history. Each of the following would be an appropriate action EXCEPT one. Which is the EXCEPTION?

A. Prescribe a nicotine (NicoDerm-CQ®) patch
B. Recommend hypnosis
C. Recommend nicotine (Nicorette®) chewing gum
D. Recommend use of a smokeless tobacco

Key: D
CC13
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient

The initial treatment should include each of the following EXCEPT one. Which is the EXCEPTION?

A. Bite plane splint therapy
B. Diet modification
C. Minor occlusal adjustment
D. Muscle relaxant prescription

Current Findings

Key: C
CC05
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Female, 59 years old
Chief Complaint
“I have many missing teeth and several more are loose. My mouth is also dry.”
Background and/or Patient History
Hypertension Medications: aspirin 81 mg hydrochlorothiazide/triamterene (Dyazide®) Works in the shoe section of a department store
Current Findings
Height: 5' 9" Weight: 140 lbs BP: 123/78 New patient presents for an initial examination Missing many teeth Several remaining teeth exhibit class 1-2 mobility Wants to save as many teeth as possible Willing to consider upper and lower partial dentures Intraoral examination reveals profound mucosal dryness Manipulation of major salivary gland ducts fails to produce saliva

The bilateral radiopacities are:

A. amalgam tattoos.
B. artifacts.
C. remnants from iatrogenic dentistry.
D. rigid fixation from trauma.

Key: B
CC07
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

What is the greatest threat to pulp vitality during preparation of a tooth?

A. Bacteria
B. Desiccation
C. Heat
D. Pressure

Key: C
CC19
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Which base or liner may interfere with the polymerization of a resign composite restoration?

A. Calcium hydroxide
B. Copolymer
C. Glass ionomer
D. Zinc oxide eugenol

Key: D
CC28
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 45 years old
Chief Complaint

Periodontal findings in the mandibular anterior region demonstrate a correlation between:

A. erythema and smoking history.
B. original margin position and post-therapy gingival margin position.
C. probing depths and radiographic findings.
D. soft tissue contours and local factors.

Current Findings

Key: D
CC20
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Female, 25 years old
Chief Complaint
“My upper left back tooth has been sensitive to hot, cold and chewing. I woke up in pain last night.”

What is the most appropriate emergency treatment?

Current Findings
Apical radiolucency tooth 15, no swelling

A. Antibiotics and NSAIDs
B. Occlusal adjustment and NSAIDs
C. Pulpectomy and antibiotics
D. Pulpectomy and NSAIDs

Key: D
CC17
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

The patient's physician prescribed cephalexin (Keflex®) 2 gm,

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

What should be the first action for the dentist to take after the initial oral diagnosis and treatment plan discussion?

A. Encourage the

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 1 year old, accompanied by mother
Chief Complaint
Mother: “My son fell and a baby tooth came out.”
Background and/or Patient History
Has never seen a dentist before, but family members are patients of record
Current Findings
Tooth E has avulsed and is in a cup of milk

Which action should be performed by the dentist?

A. Curette the socket and suture the site.
B. Inspect the socket and reassure the mother and infant.
C. Reimplant the tooth and splint to adjacent teeth.
D. Reimplant the tooth but do not splint.

Key: B
CC37
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Female, 30 years old
Chief Complaint
“I want my teeth fixed before getting pregnant.”
Background and/or Patient History
Duodenal ulcer Medications: antacids oral contraceptives Extractions prior to orthodontic treatment 10 years since last dental visit
Current Findings
Missing and carious teeth Gingival swelling and erythema around tooth 17 Bilateral tenderness in muscles of mastication

There are four posterior teeth present in the mandibular left quadrant. One tooth has five cusps, two teeth have four cusps, and another tooth has three cusps. Which tooth is missing?

A. 18
B. 19
C. 20
D. 21

Key: D
CC26
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Patient
Male, 5 years old, accompanied by parents
Chief Complaint
Parents: “We are here for our son’s initial exam.”
Background and/or Patient History
Duchenne muscular dystrophy, an X-linked recessive disorder, diagnosed 3 years ago Difficulty swallowing Lives in area with fluoridated water Parents assist with brushing teeth, twice daily
Current Findings
Occlusal caries noted on tooth T Gingival swelling distal to tooth T

If the patient's father is unaffected and the mother is a carrier, what is the expected incidence of siblings NOT being phenotypically affected?

A. 12.5%
B. 25%
C. 50%
D. 75%
E. 100%

Key: D
CC04
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

What poses the most prevalent risk of pathogen transmission in the dental office?

A. Aerosals
B. Dental instruments
C. Environmental surfaces
D. Hands

Key: D
CC51
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

OSHA’s bloodborne pathogen standard requires healthcare employers to do each of the following EXCEPT one. Which is the EXCEPTION?

A. Establish an exposure control plan.
B. Implement the use of standard precautions.
C. Make hepatitis C vaccinations available.
D. Provide personal protective equipment.

Key: C
CC44
FK?

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

Each of the following would be included in the treatment plan discussion EXCEPT one. Which is the EXCEPTION?

A. “Do you understand that you might have to go without teeth for a while?"
B. "The denture will allow you toT2.2ew(o)]TJ 0.005 8.16.887 0

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.

The most accurate predictor of financial stability during retirement is the:

A. ability to time the market gains and losses.
B. duration of time one has to invest.
C. formation of a defined benefit pension plan.
D. mix of stocks and bon>>Bh2.553 0 Td [(pl)-0.9(an.)9 q SC

© 2017 Joint Commission on National Dental Examinations. All Rights Reserved.