MSS WEEK 2

EVERYTHING IN ONE FILE SUMMARY & TESTBANK



PREPARED BY



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METABOLIC DISORDERS:

Osteopenia = bone mass 1-2,5 SD Below mean

Osteoporosis: severe osteopenia > than 2.5 SD below the mean, with increase risk for fractures

PRIMARY OSTEOPOROSIS = generalized, more common, postmenopausal, aging (senile)

secondary OSTEOPOROSIS= localized, less common, Hyperthyroidism, malnutrition, steroids

OSTEOPOROSIS

more common in women

prevention is more efficient than treatment

factors: genetic (can not control, same family), physical activity + nutrition (can be controlled)

aging = decrease in activity of osteoprogenitor cells and osteoblast + decreased biological activity of matrix bound growth factors

menopausal: less estrogen, high IL-1, IL-6, TNF + High RANK, RANKL interactions + high osteoclast activity clinically: Vertebral fractures are the most common

(which make me think that they are the reason of becoming shorter, you can ignore me)

Femur and pelvic fractures: immobility, PEs (pulmonary embolism (جلطة على الرئة)), pneumonia (40-50K death/yr in USA)

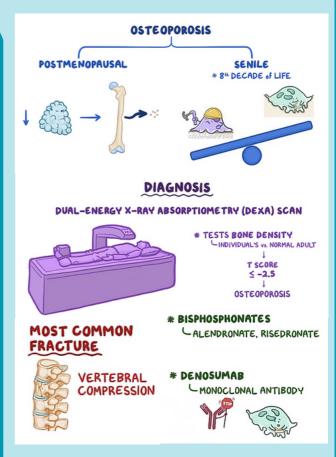
prevention: (Exercise • Calcium & vitamin D)

treatment : (Bisphosphonates: reduce osteoclast •

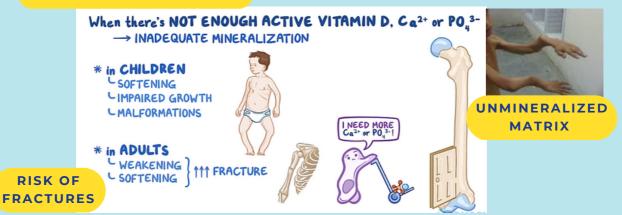
Denosumab: (more efficient) anti-RANKL; blocking

osteoclast • Hormones (estrogen): risking DVT and

stroke



RICKETS & OSTEOMALACIA



HYPERPARATHYROIDISM (HPT)

hyperparathyroidism is a condition where the body releases too much parathyroid hormone.

Primary hyperparathyroidism is usually caused by a parathyroid adenoma, resulting in high calcium and low phosphate levels. Secondary hyperparathyroidism is usually caused by chronic kidney disease, resulting in low calcium, high phosphate, and low vitamin D levels.

Tertiary hyperparathyroidism is caused by chronic secondary hyperparathyroidism from kidney disease, resulting in hypercalcemia and high phosphate.

Hyperparathyroidism arises from either autonomous or compensatory hypersecretion of PTH and can lead to osteoporosis, brown tumors, and osteitis fibrosa cystica (von Recklinghausen's disease of bone). However, in developed countries, where early diagnosis is the norm, these manifestations are rarely seen.

PAGET DISEASE OF BONE (OSTEITIS **DEFORMANS**

- Increased badly formed bone structure.
- 3 phases (lytic, mixed, sclerotic)
- 1% in USA; geographic variation Genetic and environmental factors
- 50% of familial Paget and 10% of sporadic (+RANK & -OPG)
- Viruses (measles and RNA viruses) pattern of lamellar bone

DX: x-ray; serum Alk P, Normal Ca and PO4 secondary osteoarthritis; fractures; osteosarcoma (1%)

PAGET'S DISEASE of BONE

- * EXCESSIVE BONE RESORPTION & HAPHAZARD BONE GROWTH
- * USUALLY ASYMPTOMATIC
- * RESULTS in WEAK, MISSHAPEN BONES

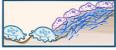


LEONTIASIS OSSEA (LION FACE) **AXIAL SKELETON MORE AFFECTED**

* LYTIC PHASE



* MIXED PHASE



* SCLEROTIC PHASE

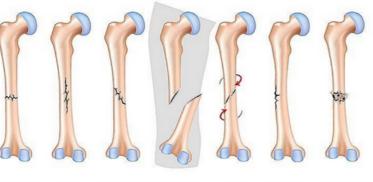


MOSAIC

FACTORS IMPACTING PROPER **HEALING:**

- Displaced and comminuted #s
- Inadequate immobilization (delayed union or nonunion)
- **Pseudoarthrosis**
- Infection (open #s) Transversem
- Malnutrition
- Steroids/AIDrugs

Types of Bone Fractures



Linear Nondisplaced Displaced, SKIN IS INTACT

Compound SKIN IS PENTRATED

Greenstick Comminuted **SKIN IS INTACT**

SOFT BONE FRACTURE

> Infarction (ischemic necrosis) of bone and marrow ASSOCIATED CONDITIONS: -Vascular injury: trauma, vasculitis - Drugs: steroids -Systemic disease: Sickle -**Radiation MECHANISM: -**Mechanical disruption -Thrombotic occlusion -

MORE YELLOW LESS RED , LESS VASCULAR



PATHOLOGY TESTBANK

In the Paget disease of bone, lesions have a mixture of lamellar and woven bone, which *** gives it a classic pattern.	
An isolated increase in serum alkaline phosphatase is commonly indicative of ***	
Serum calcium levels (increase/decrease/do not change) in Paget disease of bone. ***	
hyperparathyroidism will have high calcium and low phosphate.	
hyperparathyroidism in chronic renal disease will have low calcium, elevated phosphate, and low vitamin D.	
The stage of Paget disease of bone involves increased osteoblast activity.	
Paget disease of bone, also known as, is a common, localized bone disorder that involves an increase in both osteoblastic and osteoclastic activity.	
74-year-old woman is brought to the emergency department because of generalized muscle aching, weakness and pain in the left hand. The symptoms started gradually a few months ago and have been progressing over time Past medical istory is notable for uncontrolled hypertension, type 2 diabetes mellitus and od-stage renal disease and she has been receiving dialysis three times per weather.	l di

A- SECONDARY HPT

B- PRAIMARY HPT

for the past 2 years. A radiograph of the patient's hands is shown:

C- PAGET DISEASE

A 71-year-old man comes to the office because of non-radiating lower back pain. The pain has been present for the past 5 months and has progressively worsened. He has tried ibuprofen, which was initially able to control the pain but is no longer able to do so. He has no history of back trauma and does not perform any heavy lifting. Physical examination is notable for a decrease in height of 3 inches when compared with measurements taken one year ago and tenderness over the lumbar spine. What is the most likely underlying pathology of this patient's condition?

0	A. Decreased osteoblast activity, normal osteoclast activity
0	B. Intervertebral disc space calcification
0	C. Decreased osteoblast activity, increased osteoclast activity
0	D. Increased osteoblast activity, decreased osteoclast activity

MOSAIC
PAGET
DO NOT CHANGE
PRIMARY
SECONDARY
SCLEROTIC
OSTEITIS DEFORMANS

MICROBIOLOGY

Impetigo:

is a contagious superficial bacterial infection observed most frequently in children ages two to five years

IMPETIGO

NONBULLOUS

LESIONS BEGIN AS PAPULES
SURROUNDED BY
ERYTHEMA. SUBSEQUENTLY
THEY BECOME PUSTULES
THATBREAK DOWN TO
FORM THICK, ADHERENT
CRUSTS WITH A
CHARACTERISTIC GOLDEN
APPEARANCE

BULLOUS

YOUNG CHILDREN IN WHICH THE VESICLES ENLARGE TO FORM FLACCID BULLAE WITH CLEAR YELLOW FLUID

IMPETIGO

PRIMARY

DIRECT BACTERIAL
INVASION OF
PREVIOUSLY NORMAL
SKIN

SECONDARY

SKIN TRAUMA SUCH AS ABRASIONS, MINOR TRAUMA, AND INSECT BITES

ECTHYMA IS AN ULCERATIVE FORM OF IMPETIGO IN WHICH THE LESIONS EXTEND THROUGH THE EPIDERMIS AND DEEP INTO THE DERMIS

PATHOLOGY & CAUSES

- Highly infectious skin infection; affects superficial epidermis
 - Commonly affects children
 - Skin-to-skin spread possible
- Contact with carrier → pathogen enters intact/non-intact skin → incubation → lesion formation, spread over body through scratching
- Commonly caused by S. aureus, S. pyogenes

THE PRINCIPAL PATHOGEN IS S. AUREUS AND BETA-HEMOLYTIC STREPTOCOCCI (G , C)

TREATMENT OF IMPETIGO IS IMPORTANT FOR REDUCING SPREAD
OF INFECTION, HASTENING THE RESOLUTION OF DISCOMFORT,
AND IMPROVING COSMETIC APPEARANCE

TREATMENT

MEDICATIONS

Topical antibiotic

(FEWER SIDE EFFECTS)(LOWER RISK OF MRSA). MUPIROCIN AND RETAPAMULIN ARE FIRST-LINE TREATMENTS, MUPIROCIN IS A MIXTURE OF SEVERAL PSEUDOMONIC ACIDS INHIBITS ISOLEUCINE TRNA SYNTHETASE IN BACTERIA

FOLLICULITIS

PATHOLOGY & CAUSES

- Hair follicle inflammation (pyoderma), usually infectious cause
- May also be due to persistent trauma (mechanical folliculitis)
- Pathogen enters hair follicle →
 inflammatory inflammatory response →
 infection causes a perifollicular infiltrate of
 lymphocytes, neutrophils, macrophages →
 pustule formation

CAUSES

- Bacteria
 - S. aureus, Pseudomonas aeruginosa (hot-tub folliculitis)

RARELY, CANDIDA AND CERTAIN
DERMATOPHYTES CAN CAUSE FOLLICULITIS

RISK FACTORS

- · Swimming pools, hot tubs
- Shaving against hair growth, tight clothes causing friction, profuse sweating (hyperhidrosis)
- Use of antibiotics, acne medication, topical corticosteroids
- · Upper respiratory presence of S. aureus



man presents to his primary care physician for evaluation of lesions on the abdomen. The lesions were fluid-filled sacs that eventually burst leaving behind yellow, crusted areas of inflammation.

Which of the following pathogenic factors is most likely responsible for this clinical presentation?

0	A. Streptolysin O
0	B. Toxin B
0	C. Exfoliative toxin A

These findings are consistent with bullous impetigo, which is most commonly caused by strains of Staphylococcus aureus that secrete exfoliative toxin A,

A SKIN ABSCESS

is an infection of the dermis and deeper layers of skin that contains purulent material. referred to as carbuncles and furuncles.

the most common organisms are Staphylococcus aureus ([MRSA]) and streptococci. is round and feels firm and squishy painful, red

Diagnosis: by clinical examination. Culture is recommended, primarily to identify MRSA simple cutaneous abscesses include hidradenitis suppurativa (chronic inflammatory condition of the hair follicle) and ruptured epidermal cysts

"incision and drainage." with local anesthesia.

Antibiotics traditionally unnecessary unless the patient has signs of systemic infection, cellulitis, multiple abscesses, immunocompromise, or a facial abscess.

CELLULITIS

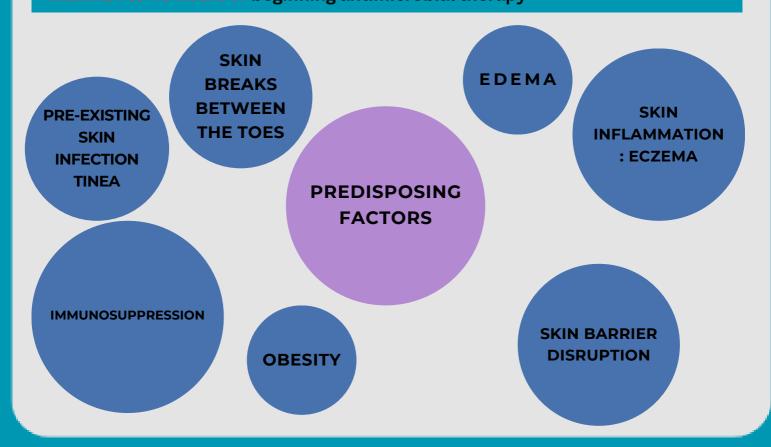
skin erythema, edema, and warmth ,it develops as a result of bacterial entry (beta-hemolytic streptococci most commonly group A Streptococcus or Streptococcus pyogenes; S. aureus MRSA .)

Petechiae and/or hemorrhage, and superficial bullae can occur

• Fever and other systemic manifestations of infection may also be present.

Cellulitis and erysipelas are nearly always unilateral, in the lower extremities

involves the deeper dermis and subcutaneous fat more indolent course with development of localized symptoms over a few days ,Patients with cellulitis typically have symptomatic improvement within 24 to 48 hours of beginning antimicrobial therapy



ERYSIPELAS

occurs in young children and older adults are caused by beta-hemolytic streptococci involves the upper dermis and superficial lymphatics erysipelas is nonpurulent, acute onset, clear demarcation, "butterfly" involvement of the face

PATIENTS WITH NONPURULENT
CELLULITIS SHOULD BE MANAGED
WITH EMPIRIC THERAPY LIKE
CEFAZOLIN FOR INTRAVENOUS
THERAPY AND CEPHALEXIN FOR
ORAL THERAPY

NECROTIZING FASCIITIS

PATHOLOGY & CAUSES

- · Potentially life-threatening infection
 - Progressive destruction of deep soft tissue (subcutaneous fat, muscle fascia)
- Bacteria spread via subcutaneous tissue

 → release exotoxins → tissue destruction
 spreads along fascial planes

TYPES

Type I: polymicrobial

- Causes: combination of aerobic, anaerobic bacteria
 - Most common anaerobes: Bacteroides.

Clostridium, Peptostreptococcus

- Enterobacteriaceae: Escherichia coli, Klebsiella, Proteus, Enterobacter
- Facultative anaerobic streptococci
- Common sites
 - Perineum (Fournier's gangrene): impaired gastrointestinal/urethral mucosal integrity → spreads to anterior abdominal wall; gluteal muscles; scrotum, penis (in biological male); labia

Type II: monomicrobial

 Causes: Group A Streptococcus, other beta-hemolytic streptococci, Staphylococcus aureus

DIAGNOSIS

DIAGNOSTIC IMAGING

CT scan

 Subcutaneous gas visualized in fascial planes

LAB RESULTS

Blood

TREATMENT

MEDICATIONS

- . Empiric IV antibiotics
 - Carbapenem/beta-lactam-betalactamase inhibitor + vancomycin/ linezolid + clindamycin

SURGERY hemodynamic support

 Direct surgical examination of skin, subcutaneous tissue, fascial planes, muscle
 → debridement of all devitalized, necrotic tissue

LANDMARKS:

RAPID PROGRESSION SEVERE PAIN

PRESENCE OF GAS

ACUTE
183 M PROTEIN

PENETRATING TRAUMA
RECENT SURGERY

MUCOSAL BREACH
IMMUNOSUPPRESSION
DIABETES

RISK:



- Erythema (without sharp margins; 72 percent)
- Edema that extends beyond the visible erythema (75 percent)
- · Severe pain (out of proportion to exam findings in some cases; 72 percent)
- · Fever (60 percent)
- Crepitus (50 percent) Crackling Sound , طقطقة طقطقة و الجلد
- Skin bullae, necrosis, or ecchymosis (38 percent) small bruits . كدمة





PYOMYOSITIS:

purulent infection of skeletal muscle usually with abscess formation infection of the tropics

Staphylococcus aureus is the most common cause fever and pain with cramping localized to a single muscle group

Stage 1 is crampy local muscle pain, swelling, and low-grade fever.

- Stage 2 occurs 10 to 21 days after the initial onset of symptoms: fever, exquisite muscle tenderness, and edema.
- Stage 3 is characterized by systemic toxicity.
 Radiographic imaging for diagnosing
 stage 1 pyomyositis =can antibiotics alone, stag 2 or 3:
 both antibiotics and drainage

RISK FACTORS:
IMMUNODEFICIENCY
(PARTICULARLY HIV
INFECTION), TRAUMA,
INJECTION DRUG USE,
CONCURRENT
INFECTION, AND
MALNUTRITION

STAPHYLOCOCCUS AUREUS





Traumatic gas gangrene is most commonly caused by C. perfringens;

spontaneous gangrene is most commonly caused by the more aerotolerant C.

septicum

CLOSTRIDIAL MYONECROSIS

is a life-threatening muscle infection that develops eithe.

contiguously from an area of trauma or hematogenously
rapidly progressive invasion and destruction of healthy muscle
hemolysis, break
toxins are produced by C. perfringens; of these,
C. perfringens is responsible for a range of soft-tissue infections
including cellulitis, fasciitis or suppurative myositis, and myonecrosis
with gas formation

Clostridial food poisoning, an intoxication characterized by (1) a short incubation period (8 to 12 hours), (2) a clinical presentation that includes abdominal cramps. (3) a clinical course lasting less than 24 hours.

THE TOXIN INVOLVED IN GAS GANGRENE IS KNOWN AS A-TOXIN.

enterotoxin = transition from vegetative cells to spores= is released in small intestine

diagnosis = pain, systemic toxicity and gas in the soft tissue, crepitus specifically

who have not received tetanus immunization for 5 years should receive a booster vaccine (HBO)

TREATMENT IS USUALLY



penicillin clindamycin tetracycline chloramphenicol metronidazole DEBRIDEMENT AND EXCISION,
WITH AMPUTATION .
WATERSOLUBLE ANTIBIOTICS
ALONE ARE NOT EFFECTIVE

DIABETIC FOOT INFECTIONS:

WITH SUBSTANTIAL MORBIDITY AND MORTALITY

RISK FACTORS FOR DEVELOPMENT OF DIABETIC FOOT INFECTIONS INCLUDE NEUROPATHY, PERIPHERAL VASCULAR DISEASE, AND POOR GLYCEMIC CONTROL

NO SENSATION= LATE TO RECOGNIZE, NO SWEAT = DRY SKIN = INFECTION, FOOT DEFORMITIES,

PERIPHERAL ARTERY DISEASE CAN IMPAIR BLOOD FLOW NECESSARY FOR HEALING, HYPERGLYCEMIA IMPAIRS NEUTROPHIL FUNCTION AND REDUCES HOST DEFENSES

SUPERFICIAL DIABETIC FOOT INFECTIONS -- GRAM-POSITIVE COCCI
ULCERS THAT ARE DEEP-----POLYMICROBIAL = ENTEROCOCCI,
ENTEROBACTERIACEAE, PSEUDOMONAS AERUGINOSA, AND ANAEROBES.
WOUNDS WITH EXTENSIVE LOCAL INFLAMMATION, NECROSIS, MALODOROUS
DRAINAGE ---- ANAEROBIC ORGANISMS (BACTEROIDES, CLOSTRIDIUM)
CAN SUBSEQUENTLY EXTEND TO JOINTS, BONES, AND THE SYSTEMIC

MAY REACH BONE

CIRCULATION

UNINFICTED •

NO PUS

MILD

EREYTHEMA LESS THAN 2 Cm + PAIN, PUS

THREE KEY STEPS:

1) DETERMINING THE

2) IDENTIFYING

UNDERLYING

FACTORS

3) ASSESSING THE

MICROBIAL ETIOLOGY

moderate •

deep tissue abscess

SEVERE

SYSTEMIC TOXICITY = TACHYCARDIA ACIDOSIS , etc

NEUROPATHIC ULCERS

CAUSES

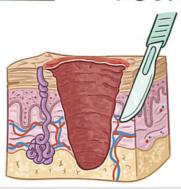
* DIABETES MELLITUS — IMPAIRS WOUND HEALING

- * TIGHT GLYCEMIC CONTROL
- * GOOD FOOT HYGIENE
- * DIABETIC SOCKS/ SHOES
- * DAILY FOOT INSPECTIONS



TREATMENT

NEUROPATHIC ULCERS



- * DEBRIDEMENT of NONVIABLE & INFECTED TISSUE
- * REVISIONAL SURGERY on BONY ARCHITECTURE
- * VASCULAR RECONSTRUCTION

mini testbank

A 24-year-old man presents with small, yellow pustules confined to the hair follicles along the beard neckline. He reports pain and redness gradually increasing for the last couple of days. On examination, there are inflamed follicles. Gram stain shows cocci in grape-like clusters. What is the best next step?				
Oral antibiotics				
Biopsy				
Incision and drainage				
Packing and marsupialization				
Culture of exudate				
is a rapidly progressing, life threatening soft tissue infection that has pain that may*** be out of proportion to exam findings and causes bullae and a purple color to the skin.				
Necrotizing fasciitis requires (medical/surgical) emergency treatment.				
Crepitus in necrotizing fasciitis is due to production of				

A 30-year-old man is brought to the emergency department with pain and discoloration of the right thigh. A week ago the patient was involved in a motor vehicle accident and suffered deep lacerations over the same region. The patient was evaluated at an urgent care facility afterward and a piece of scrap metal was removed from the right thigh. The appearance of the right thigh is shown. On palpation of the right thigh, there is tenderness and crepitus. Which toxin is most likely responsible for this patient's presentation?



(TRUE / FALSE) MILD FOOT ULCER INFECTIONS CAUSE SYSTEMIC ILLNESS

IF SOMEONE HAS LOCAL INFECTION (MORE EXTENSIVE OR INVOLVING DEEPER TISSUES)

- ABSCESS, OSTEOMYELITIS, SEPTIC ARTHRITIS, FASCIITIS
- NO SIRS (NO OR MILD FEVER AND NO WBC ELEVATION),
 -ERYTHEMA >2CM AROUND ULCER
 WHAT IS THEIR IDSA SEVERITY?

IF SOMEONE HAS LOCAL SIGNS OF INFECTIONS WITH NO SYSTEMIC SIGNS- LOCAL SWELLING OR INDURATION

- ERYTHEMA 0.5 TO 2 CM AROUND ULCER- LOCAL TENDERNESS OR PAIN- LOCAL WARMTH
- PURULENT DISCHARGE- INVOLVEMENT OF SKIN/SUBCUTANEOUS TISSUE ONLY
WHAT IDSA SEVERITY ARE THEY?

A 32-YEAR-OLD FEMALE PRESENTS TO HER FAMILY PHYSICIAN COMPLAINING THAT HER LOWER LEG FEELS HOT AND PAINFUL. PHYSICAL EXAM SHOWS THE LOWER LEG TO HAVE ERYTHEMA, EDEMA, AND IT IS VERY WARM TO THE TOUCH. THE ERYTHEMATOUS AREA IS NONELEVATED AND HAS POORLY DEFINED MARGINS. THERE IS NO DRAINAGE OR EXUDATES AND NO EVIDENCE OF ABSCESSES. SHE HAS NO RECOLLECTION OF ANY TRAUMA OR INJURY TO THE AREA. THE WOMAN HAS NORMAL VITAL SIGNS AND HER COMPLETE BLOOD COUNT IS NORMAL. SHE HAS NO KNOWN ALLERGIES.

WHAT IDSA SEVERITY ARE THEY?

oral antibiotics
necrotizing fasciitis
surgical
gas (Co2)
A toxin
false
moderate
mild
uninfected

PHARMACOLOGY

ANTIBACTERIAL

BACITRACIN



poorly absorbed through the skin, so systemic toxicity is rare . + (Hydrocortisone) , Frequently with (polymyxin B and neomycin

GRAMICIDIN



FUSIDIC ACID



acts as a bacterial protein synthesis inhibitor

POLYMYXIN B SULFATE



"neurotoxicity and nephrotoxicity"

NEOMYCIN



Aminoglycoside antibiotics





greater activity than neomycin in renal failure (because it is excreted by kidney)

Acne

most common skin diseases
psychological impact (depression)
Four main factors cause acne:
Excess oil (sebum) production.
Hair follicles clogged by oil and dead skin cells
Bacteria
Inflammation

Cutibacterium acnes (Propionibacterium acnes)

Comedonal Lesions -- Inflammatory Lesions--Nodulocystic Lesions -- Scaring

- **♣** cream → sensitive or dry skin
- $\frac{4}{}$ lotion \rightarrow any skin type
- ∔ gel → oily skin
- $\frac{1}{4}$ solution \rightarrow oily skin

Acne treatment

sali -ret - azel - clin- ery- metro - benz









Topical Retinoids



avoid in pregnancy ,at night se: pustular flare • photosensitivity • skin irritation and erythema • dryness and peeling

Azelaic Acid



competitive inhibitor of mitochondrial oxidoreductases and of 5 alpha-reductase inhibiting the conversion of testosterone to 5 dehydrotestosterone, decrease in pigmentation

Salicylic Acid 10



as aspirin (salicylates), keratolytic blocked skin pores to allow pimples to shrink, reduce swelling and redness

Benzoyl Peroxide



exhibits bactericidal effects against Cutibacterium acnes , at night

Clindamycin



in ribosome , 50 protein inhibitors

10% absorbed, so, possibility of Pseudomembranous
colitis . well tolerated and less likely to cause
irritation

Erythromycin

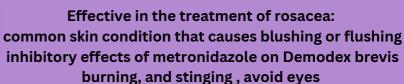


in ribosome , 50 protein inhibitors

Adverse local reactions to erythromycin solution may

include a burning sensation

Metronidazole



SYSTEMIC THERAPY: FOR NODULOCYSTIC ACNE

Oral Antibiotics

Tetracycline 5 **Doxycycline** 1 Minocycline **Eythromycin**



(Accutane)



Hormonal Therapy

dryness photosensitivity arthralgias se: teratogenic, mucosa alteration of liver enzymes hypertriglyceridemia and hypercholesterolemia





expulsion of open comedones and the transformation of closed comedones into open ones

promotes dermal collagen synthesis, new blood vessel formation, and thickening of the epidermis, which helps diminish fine lines and wrinkles Stabilizes lysosomes, increases RNA polymerase activity, increases PGE2, cAMP, and cGMP levels, and increases the incorporation of thymidine into DNA

DRUGS FOR PSORIASIS

TAZAROTENE: TOPICAL ANTI-INFLAMMATORY AND ANTIPROLIFERATIVE ACTIONS. TERATOGENIC

APREMILAST: AS A SELECTIVE INHIBITOR OF THE ENZYME **PHOSPHODIESTERASE 4** (PDE4) AND INHIBITS **SPONTANEOUS PRODUCTION OF TNF-ALPHA FROM HUMAN** RHEUMATOID SYNOVIAL CFLLS

Side Effects

- diarrhea
- nausea.
- stomach pain.
- vomiting.
- headache.
- sore throat, cough, and fever.
- sneezing, runny nose, and nasal congestion.

CALCIPOTIENE: SYNTHETIC VITAMIN D3 DERIVATIVE

ACITRETIN: GIVEN ORALLY. HEPATOTOXIC AND TERATOGENIC PATIENTS SHOULD NOT BECOME PREGNANT FOR 3 YEARS AFTER STOPPING TREATMENT, AND ALSO **SHOULD NOT DONATE** BLOOD.

ROFLUMILAST: LONG-ACTING INHIBITOR OF THE ENZYME **PHOSPHODIESTERASE-4** (PDE-4) FOR CHRONIC PLAOUE **PSORIASIS**

ETANERCEPT: BIOLOGIC, DIMERIC FUSION PROTEIN OF TNF RECEPTOR LINKED TO THE FC **PORTION OF HUMAN IGG1**

DEUCRAVACITINIB:

PSORIASIS. ALLOSTERIC INHIBITOR OF

FOR ADULTS WITH PLAQUE

Side effects:runny nose, congestion, or sore throat sore on mouth, lips, gums, tongue or roof of mouth, acne.

ALEFACEPT:

BIOLOGIC,

IMMUNOSUPPRESSIVE DIMER FUSION PROTEIN OF CD2 LINKED TO THE FC PORTION OF **HUMAN IGG1**

EFALIZUMAB:

BIOLOGIC, RECOMBINANT **HUMANIZED IGG1 MONOCLONAL ANTIBODY.** • WITHDRAWN: PROGRESSIVE **MULTIFOCAL LEUKOENCEPHALOPATHY** (PML), · CAN CAUSE **THROMBOCYTOPENIA**

TAPINAROF: FOR ADULTS, ONCE DAILY

MINI TESTBANK

D 10%

if a female patient takes for treatment of Psoriasis ,she should not become pregnant for 3 years after stopping treatment .				
	Select 1 correct answer			
A Tazarotene	B Calcipotiene	C Acitretin		
is	s Effective in the treatme	ent of rosacea		
	Select 1 correct answer			
A Erythromycin	B Isotretinoin	C Metronidazole		
should not be given to a liver diseased patient to treat Psoriasis Select 1 correct answer				
A Acitretin	B Tazarotene	C Erythromycin		
a Biologic drug for Psoriasis can progressive multifocal leukoencephalopathy (PML) Select 1 correct answer				
A Alefacept	B Roflumilast	C Efalizumab		
a 24 years old female work as a r		vere acne , and she needs a		
quick treatment , the best drug is	Select 1 correct answer			
A Metronidazole	B Clindamycin	C Isotretnoin		
convenient to treat plaque psoriasis in adults with Respiratory infection Select 1 correct answer				
A Tapinarof	B Deucravacitinib	C Apremilast		
should not be given to a patient with deficiency of platelets in the blood to treat Psoriasis				
Select 1 correct answer				
A Etanercept	B Metronidazole	C Efalizumab		
what percentage of Salicylic Acid is the perfect one ? Select1 correct answer				
A 25% B 50%	C 2%			

CACCACD