

وَأَنْهَزَتْ بِرَأْسِهَا الْيَأْسَ مِنْ كِبَانَا
فَجَسَّنَ الظَّنَّ بِاللَّهِ بِجَنَانَا

Disease	Type / Depth	Cause	Pathogenesis (HOW)	Clinical Features	Pain	Key Clue	Risk Group	Diagnosis	Treatment
Petechiae / Purpura / Ecchymosis	Vascular	Many (infection)	Vessel damage → bleeding	Small → medium → large hemorrhage	no	Size difference	—	Clinical	Treat cause
Endocarditis	Embolic	Staph, Strep, HACEK	Vegetations → emboli → vessel occlusion	Petechiae, splinter hemorrhage, Janeway, Osler	mixed	Janeway (painless) vs Osler (painful)	Valve disease	Blood culture	IV antibiotics
Meningococemia	Vascular	Neisseria meningitidis	Endotoxin → cytokines → vasculitis → shock	Petechiae → purpura → necrosis	yes	Purpuric rash + septic shock	Young	Blood culture, Gram stain	Penicillin
Impetigo (non-bullous)	Superficial	Staphylococcus aureus + Streptococcus pyogenes	Superficial infection	Vesicles → rupture → crust	no	Honey-colored crust	Children	Clinical	Mupirocin
Impetigo (bullous)	Superficial	Staph toxin	Exfoliative toxin	Large bullae	no	Bullae + systemic symptoms	Children	Clinical	Antibiotics
Ecthyma	Deep (dermis)	Staph + Strep	Infection extends deeper	Ulcer + thick crust	yes	Punched-out ulcer + scar	Diabetic, elderly	Clinical	Antibiotics
SSSS	Superficial split	Staph toxin	Desmoglein-1 destruction	Peeling skin + bullae	yes	Scalded skin	Neonates	Clinical	Anti-staph antibiotics
Primary Syphilis	Vascular	Treponema pallidum	Endarteritis → ischemia	Painless chancre	no	Hard painless ulcer	Sexually active	Serology + darkfield	Penicillin
Burn/Wound Infection	Variable	Staph + Strep + Pseudomonas aeruginosa	Barrier loss → invasion → sepsis	Ulcer, necrosis	yes	Green smell = Pseudomonas	Burn pts	Culture	Dicloxacillin / carbapenem
Ecthyma gangrenosum	Deep + vascular	Pseudomonas	Vessel invasion → necrotizing vasculitis	Red → black necrosis	yes	Black necrotic center	Immunocompromised	Blood culture	Piperacillin + gentamicin