EPIDEMIOLOGY

NORMAL FLORA / MICROBIOTA

WHAT

WHERE

WHO

ARE THEY IMPORTANT?

OPPORTUNISTS / OPPORTUNISTIC PATHOGENS

WHAT

WHY

EPIDEMIOLOGY

WHAT IS IT?

CASE REPORTING

DISEASE TRANSMISSION

CATEGORIES

CONTACT

DIRECT

INDIRECT

FOMITES

RESPIRATORY (DROPLET)

ENTERIC (ORAL-FECAL)
FOODBORNE

AIRBORNE / WATERBORNE (VEHICLE)

VECTORS

RESERVOIRS
  HUMANS

ANIMALS (ZONIOSES)

SOIL & WATER

NOSOCOMIAL INFECTIONS
  WHAT ARE THEY

THE IMPORTANCE

THE CAUSES
PATHOGENESIS

GENERAL CONCEPTS

MECHANISMS OF ENTRY AND DISSEMINATION (SPREAD)

ROUTES OF ENTRY

ADHERENCE TO HOST

DISSEMINATION

PENETRATING HOST DEFENSES: COMPONENTS

CAPSULE

M PROTEIN
OUTER LAYER OF LIPID / WAX

PENETRATING HOST DEFENSES: TOXINS & ENZYMES
  LEUKOCIDIN

  HEMOLYSINS

  COAGULASES

  KINASES / STREPTOKINASE

  HYALURONIDASE

  COLLAGENASE

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DAMAGE TO HOST CELLS

  BACTERIA
DIRECT CELL DAMAGE

TOXINS

EXOTOXINS

GENERAL CONCEPTS

NEUROTOXINS

CYTOTOXINS

ENTEROTOXINS

ENDOTOXINS

IMMUNE RESPONSE

VIRUSES

DIRECT CELL DAMAGE

TOXINS
IMMUNE RESPONSE

FUNGI
DIRECT CELL DAMAGE
TOXINS
IMMUNE RESPONSE

PARASITES
DIRECT CELL DAMAGE
TOXINS
IMMUNE RESPONSE


CASES AND EXAMPLES (ONLINE VIDEO)

http://animal.discovery.com/videos/monsters-inside-me-the-leishmaniasis-parasite.html (VECTORS)
http://animal.discovery.com/videos/monsters-inside-me-babesiosis.html (VECTORS)