Clostridium botilinum SGD

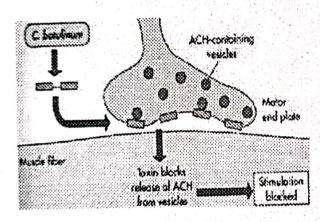
35 year female presented with symptoms of diplopia, dysphagia and flaccid paralysis with history of consuming canned beans on regular basis.

Prevention Source of trouble · Examine all cannel focils before Leve-acid foods that cooking stere inpercents Cook and reheat hoods theroughly 2333864 Keep conked books bot cobone 150 Touble signs regrees) or cold (below 40 degrees) · Clear legects Symptoms after eating turned melly # Cracked ars · Coable vision # Decopy cyclids # Loose or dented · Imable meating, swallowing or breathing · Swiften or dested book a Université bestifism cas de latif was "his edor

- 1. What is the causative agent and the disease?
- 2. How is this disease acquired and what are the types of this disease?
- 3. What is the pathogenesis of this disease?
- 4. What are the uses of toxin produced by this organism?

- Clostridium botilinum and botulism
- Oral route: Spores, widespread in soil, contaminate vegetables & meats. When foods are canned or vacuum-packed without adequate sterilization, spores survive & germinate in anaerobic environment. Toxin produced within canned food & ingested preformed. Wound botulism: associated with drug abuse. Infant botulism: Ingestion of honey containing organisms
- 3. Botulinum toxin absorbed from gut & carried via blood to peripheral nerve synapses, blocking release of acetylcholine. (stimulatory neurotransmitter). It is a protease that cleaves proteins involved in acetylcholine release.

Mechanism of Action of Botulinum Torin



4. Botox: Commercial preparation of exotoxin A used to remove wrinkles on face. Minute amounts of toxin effective in treatment of certain spasmodic muscle disorders such as torticollis, "writer's cramp," and blepharospasm.