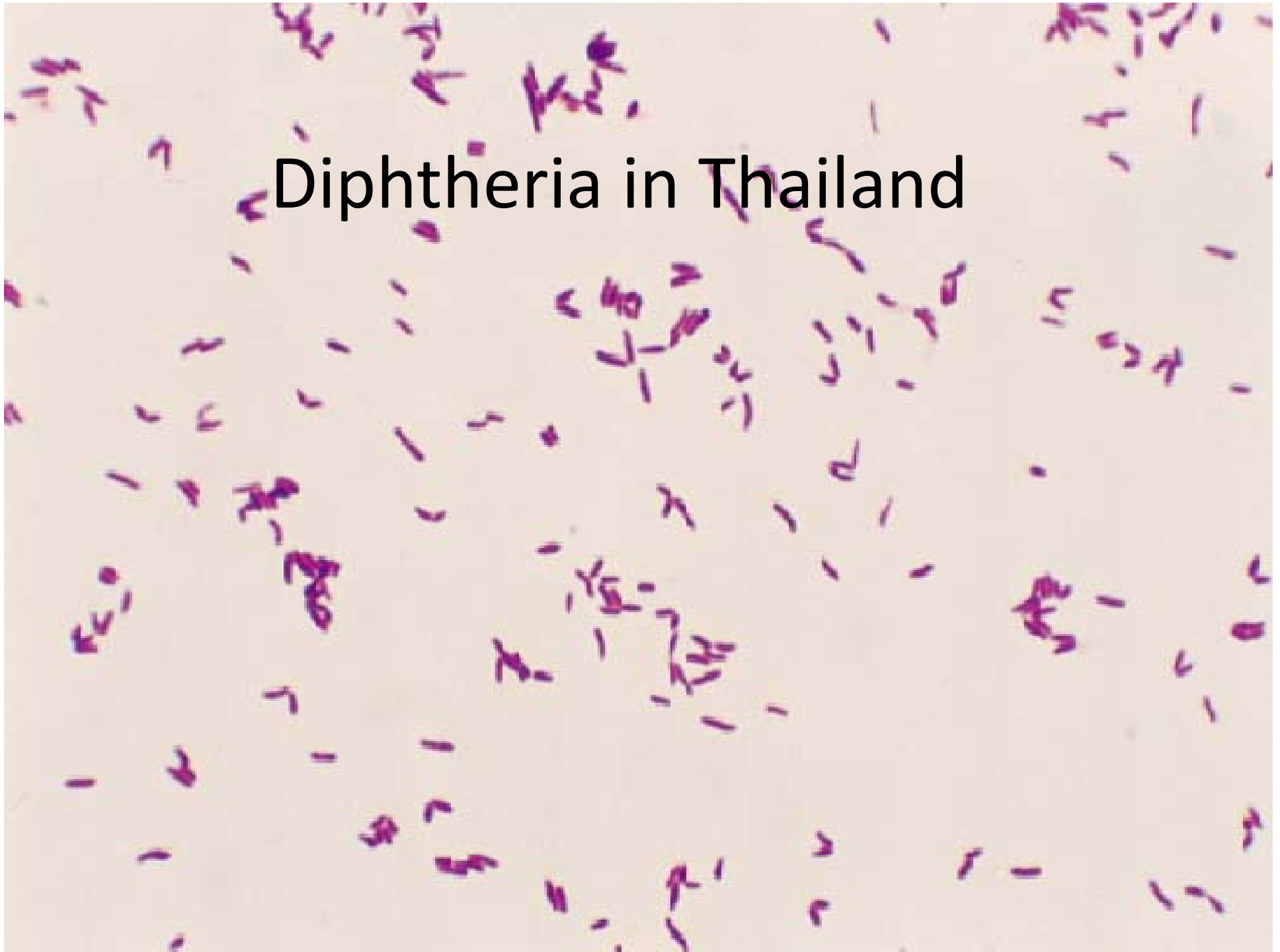


Hot Topic in Pediatric ID 2013

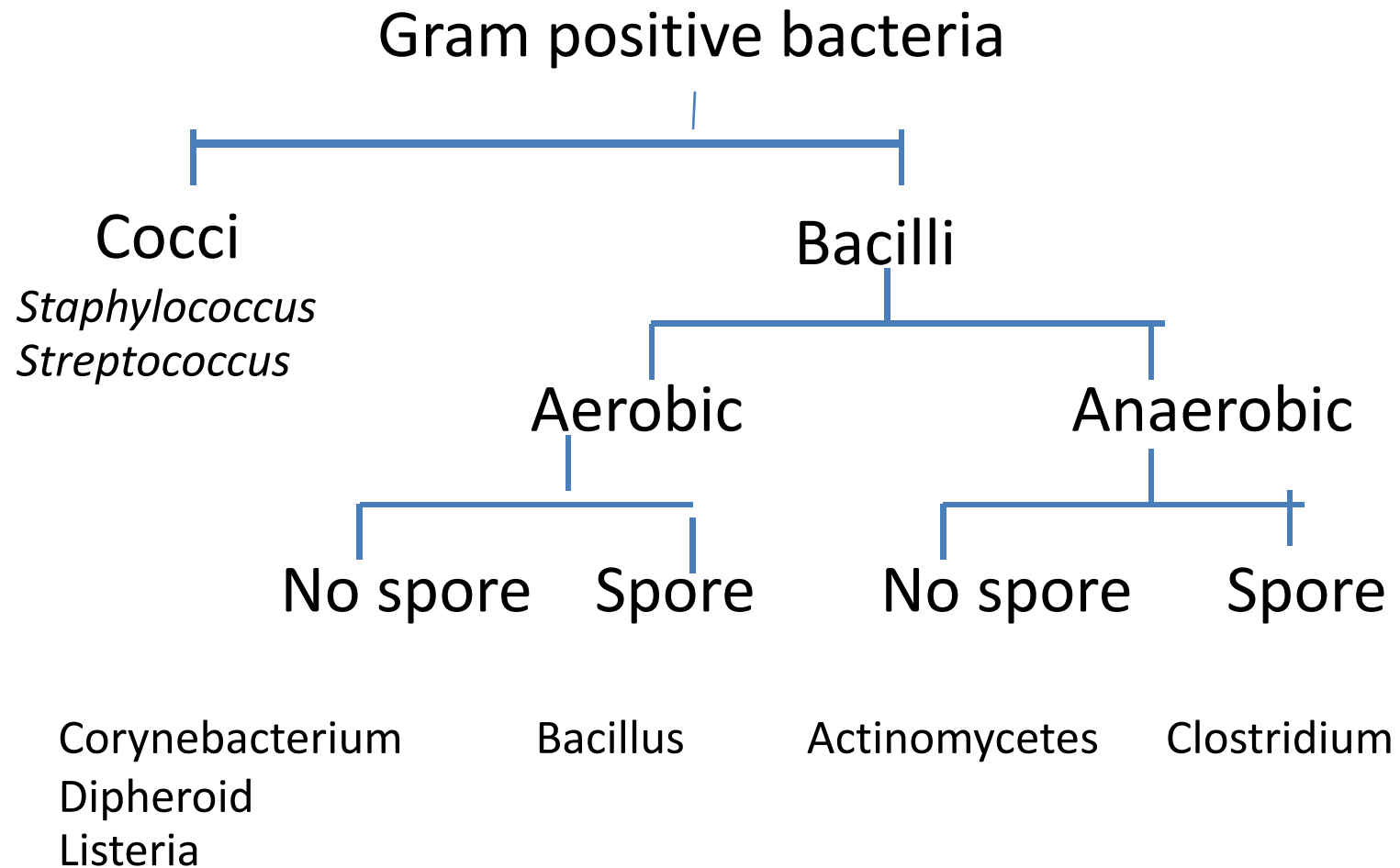
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Diphtheria in Thailand



Morphology of Gram positive



Corynebacterium diphtheriae

- Irregular staining
- Gram positive bacilli
- Non-spore forming
- Nonmotile
- Pleomorphic
- Toxigenic , nontoxigenic

Diphtheria toxin

- Exotoxin
- Consist of active A domain, binding B domain
- Toxin inhibits protein synthesis in all cells, including myocardial, renal, peripheral nerve cells, resulting in myocarditis, acute tubular necrosis, and delayed peripheral nerve conduction.
- Endocarditis can be caused by nontoxigenic strain