

CHAPTER II

OBJECTIVES

1. To type the *Pseudomonas aeruginosa* strain which were isolated from patients and environment in the Respiratory Care Unit (RCU) and Traumatic Intensive Care Unit (TICU) by using pulsed-field gel electrophoresis.
2. To use the same typing technique to type the *P. aeruginosa* strains which were isolated from sputum of the patients with respiratory tract infection in the Siriraj Hospital.
3. To compare the types of *P. aeruginosa* that isolated from different sources at the Siriraj Hospital.
4. To determine the duration of the first recovery of *P. aeruginosa* from patients in RCU and TICU after the patients were admitted in such units.
5. To determine the antimicrobial susceptibility pattern of *P. aeruginosa* against the common antimicrobials used in the treatment of respiratory tract infections.