

## DRUG RELATED PROBLEMS ANALYSIS IN NEONATUS ADMITTED TO NICU (Neonatal Intensive Care Unit)

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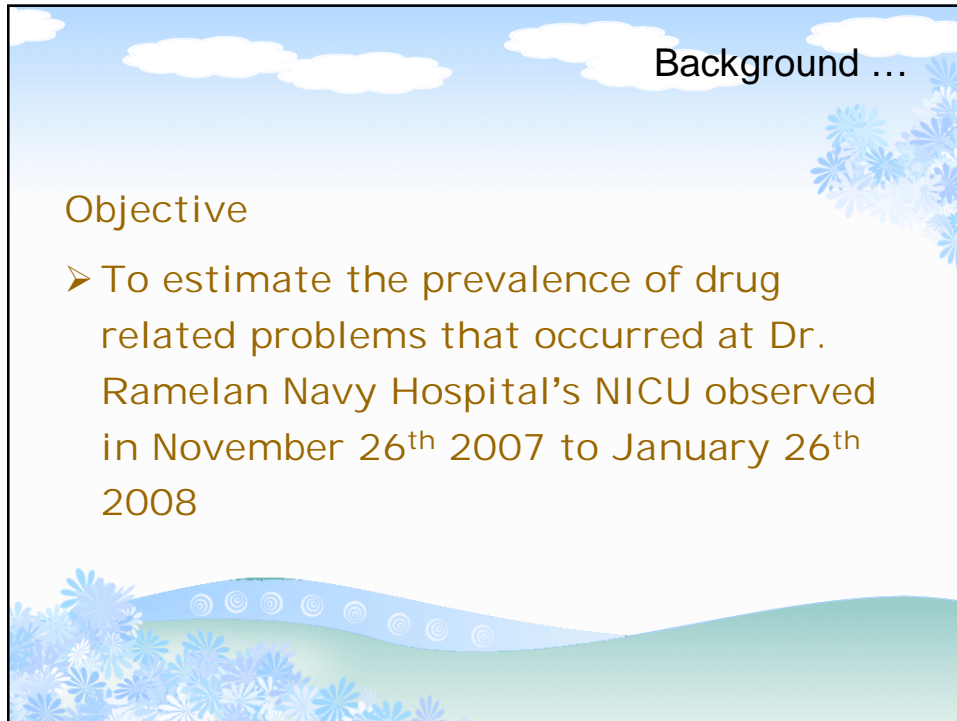
### Background

Rational drug treatment in neonates are depend on :

- Physiologic immaturity
- Age-related changes in pharmacokinetic & pharmacodynamic



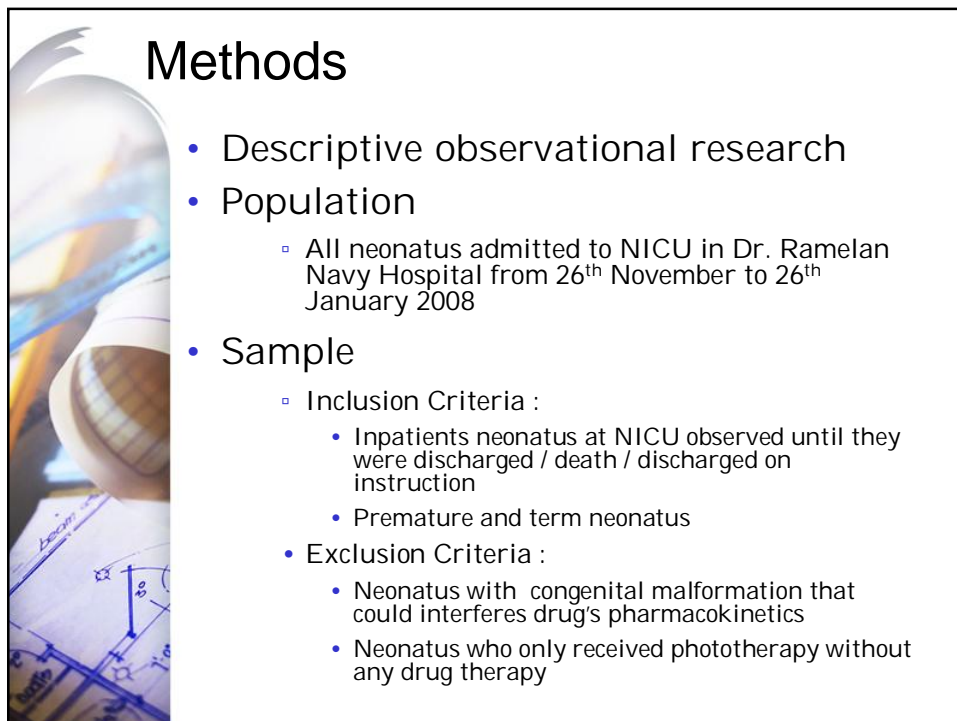
Drug Related Problems



## Background ...

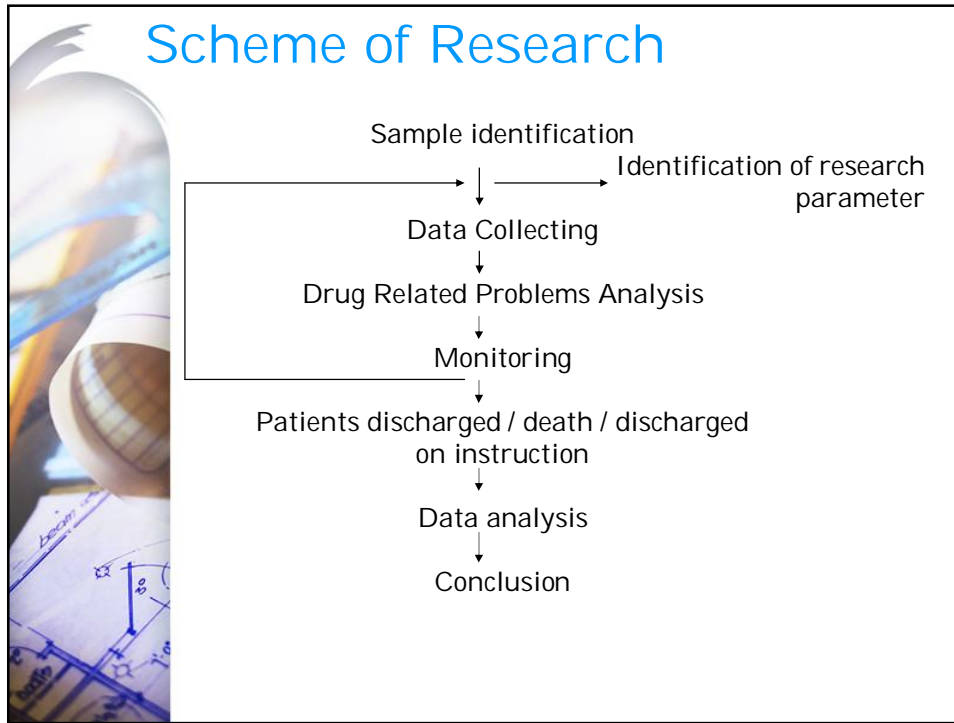
### Objective

- To estimate the prevalence of drug related problems that occurred at Dr. Ramelan Navy Hospital's NICU observed in November 26<sup>th</sup> 2007 to January 26<sup>th</sup> 2008



## Methods

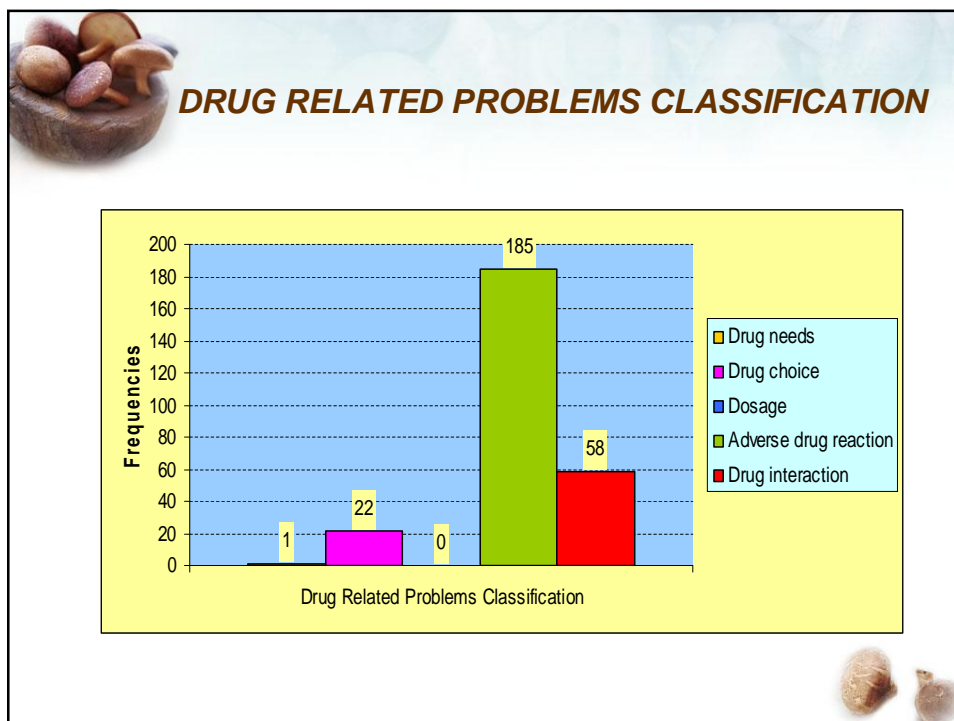
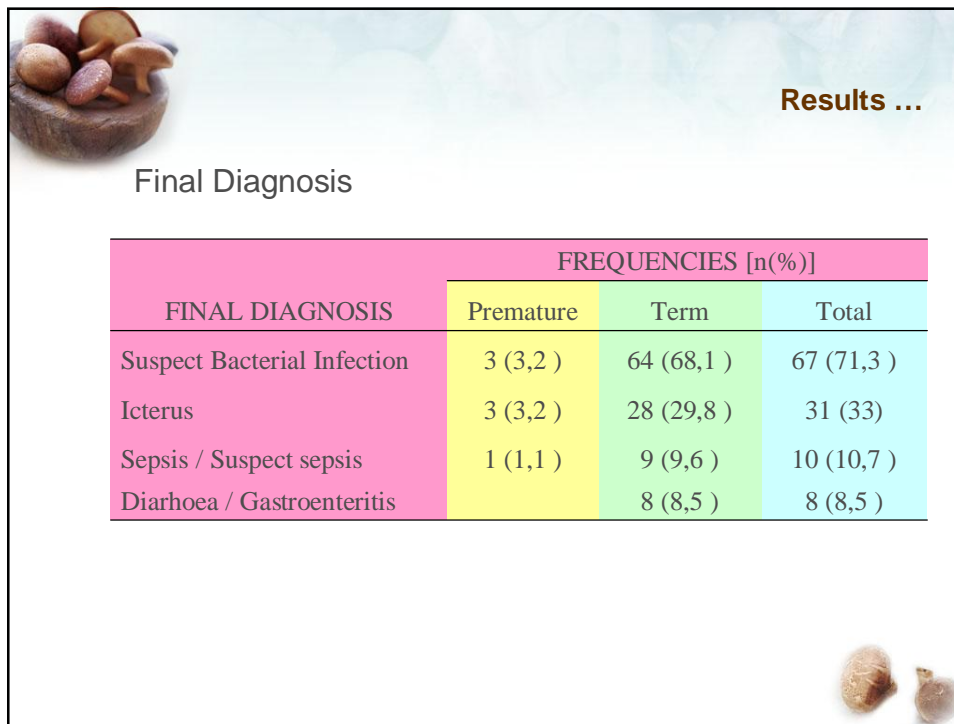
- Descriptive observational research
- Population
  - All neonatus admitted to NICU in Dr. Ramelan Navy Hospital from 26<sup>th</sup> November to 26<sup>th</sup> January 2008
- Sample
  - Inclusion Criteria :
    - Inpatients neonatus at NICU observed until they were discharged / death / discharged on instruction
    - Premature and term neonatus
  - Exclusion Criteria :
    - Neonatus with congenital malformation that could interferes drug's pharmacokinetics
    - Neonatus who only received phototherapy without any drug therapy

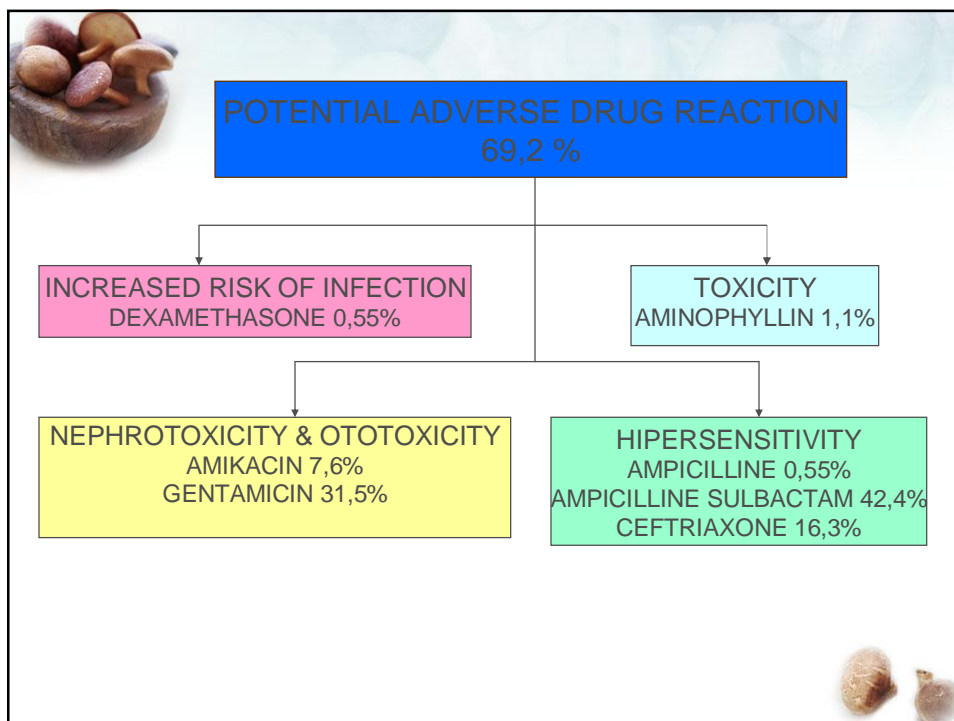
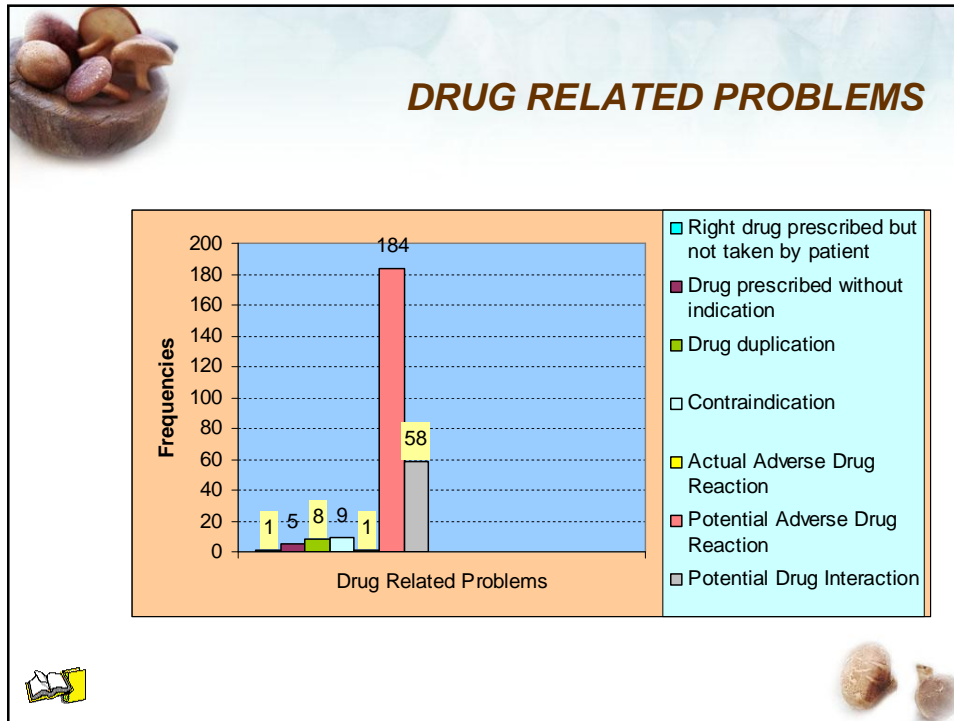


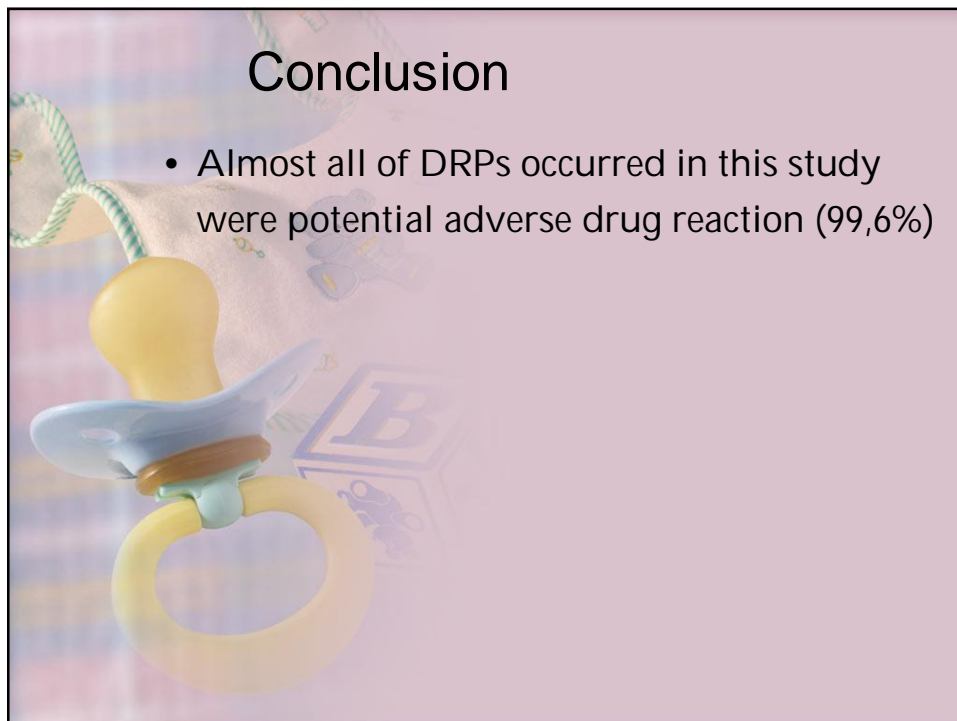
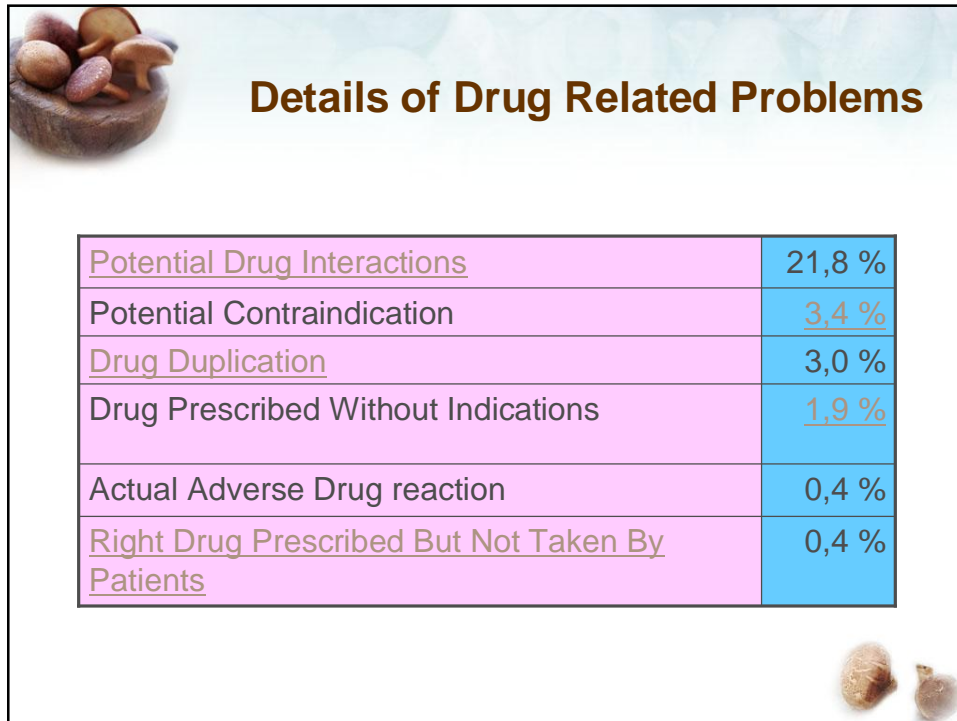
## Results

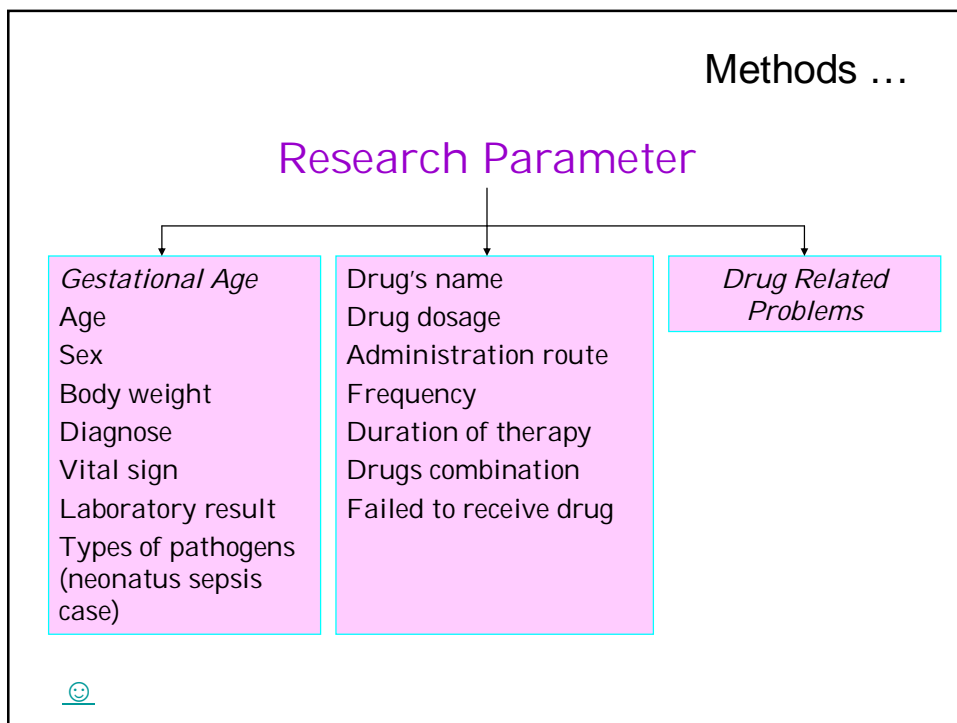
### Patients Characteristics

		FREQUENCIES		
		PREMATURE	TERM	TOTAL
Sample		5 (5,3 %)	89 (94,7 %)	94 (100 %)
Man		3 (3,2 %)	58 (64,7 %)	61 (64,9 %)
Woman		2 (2,1 %)	31 (33 %)	33 (35,1 %)
Age	Range	0 - 1 year	0 - 17 year	0 - 17 year
	Means	0,2 year	1,45 year	1,38 year
LBW		4 (4,3 %)	10 (10,6 %)	14 (14,9 %)
LGA		1 (1,1 %)	18 (19,1 %)	19 (20,2 %)





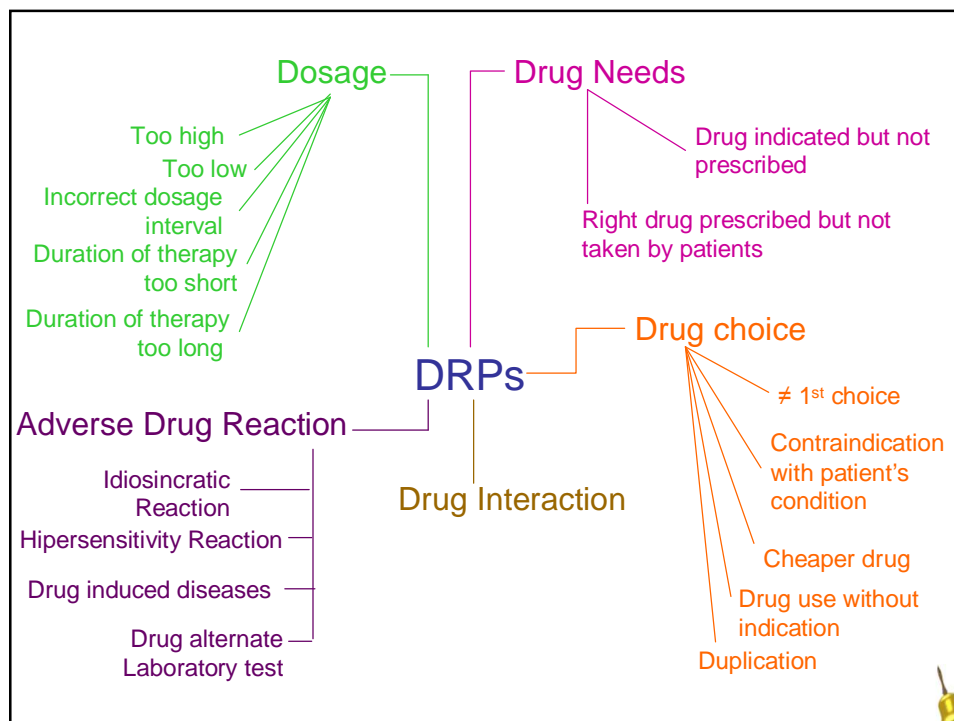




## Methods ...

### *Drug Related Problems*

- Criteria :
  - × Actual & potential DRPs
  - × DRP that identified from drug that patients bring before admitted to NICU but the DRP didn't handled.
  - × One patients could experienced more than one DRPs that came from one drug or more
  - × Identified DRPs would be counted as the real DRPs at this research, after discussion with clinical pharmacy who in charged at hospital 😊



Methods ...

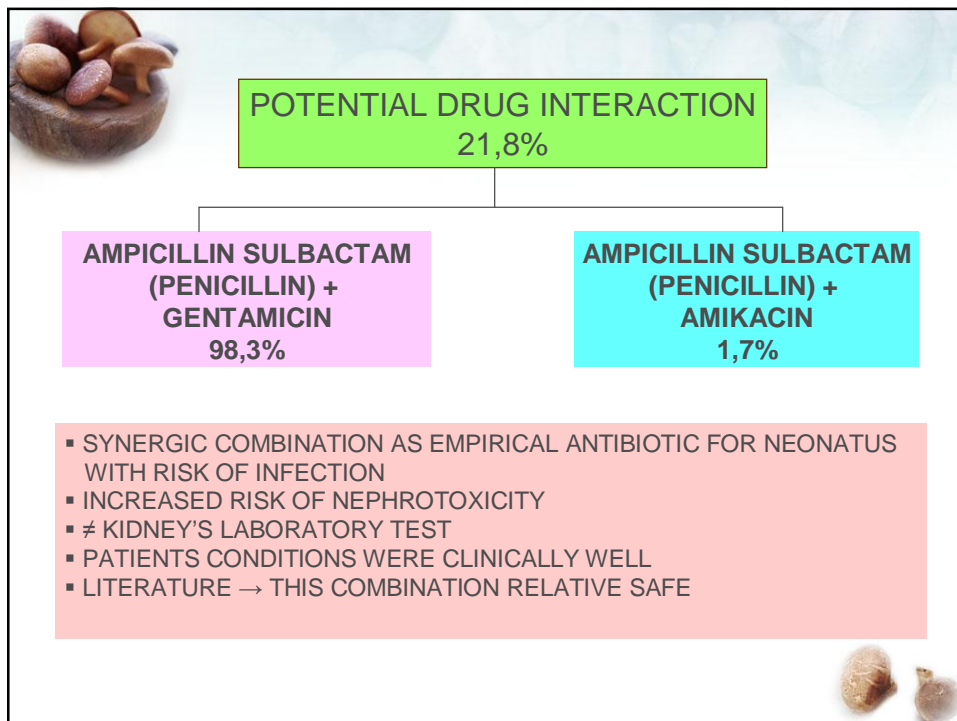
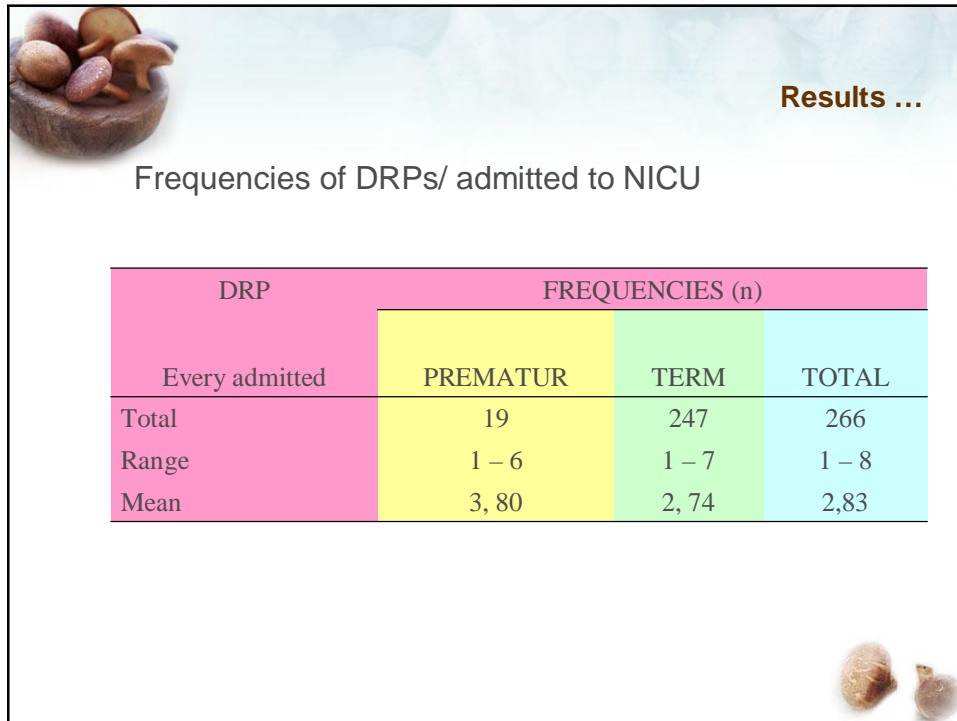
### Data Collecting Methods

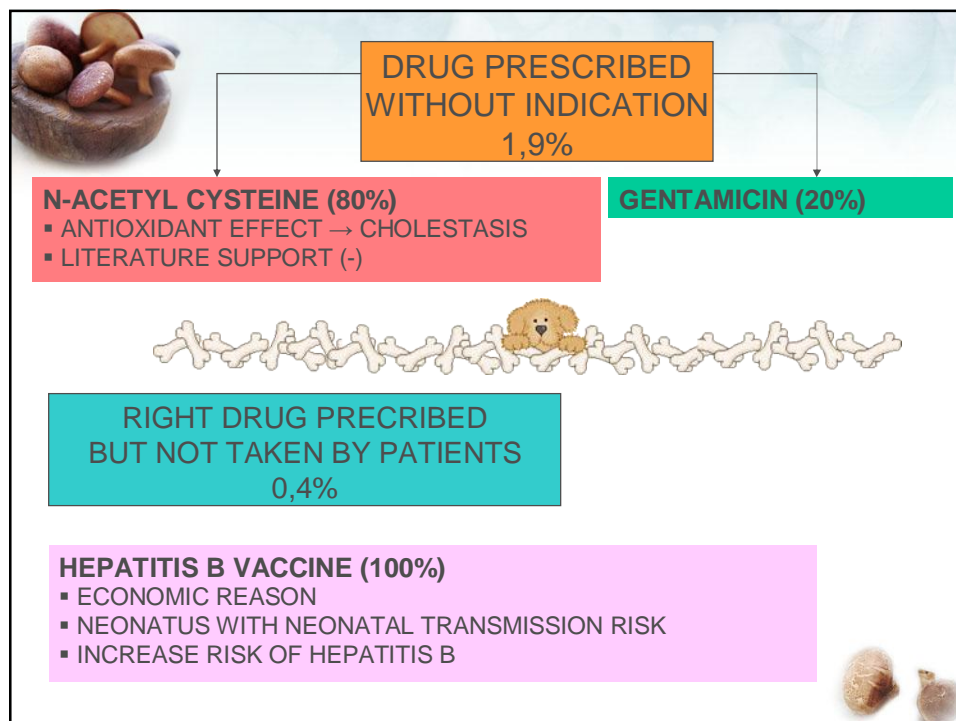
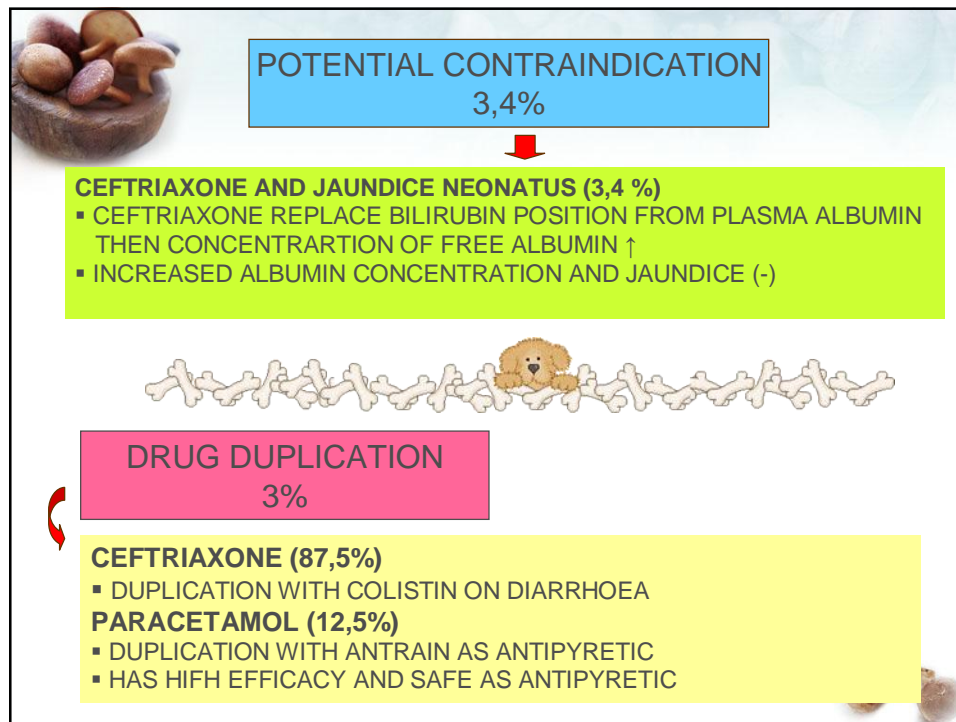
- Visited neonatus every day prospectively
- Collected patients database
- Collected patients data (*on progress*) that monitored during patients in hospital
- Drug Related Problems analysis

Methods ...

### Data Analysis Methods

- The data was analyzed in SPSS 12.0 for windows
- Descriptive statistics are shown as frequencies





The 8th Asian Conference on Clinical Pharmacy: "Toward Harmonization of Education and Practice of Asian Clinical Pharmacy"

