Hospital Statistics doc.1

Frequency Distribution

Ratio: x/y

Proportion: x/x + y

Rate: performance improvement /number of cases *100

C-Section

e.g. 33 patients cs out of 264

Hospital Inpatient – Person provided room, board and continuous general nursing service in an area of hospital where patients generally stay at least overnight.

Hospital Newborn Inpatient – Infant born in hospital at the current inpatient hospitalization. (born at home or on the way inpatient)

Inpatient Hospitalization – The Period in A person's life when they are inpatient in a single hospital without hospitalization.

Inpatient Admission –

Inpatient Census Data – Done 24hr period 12:01am – 12:00 midnight

Daily Census should be done at one time during the 24hr period.

Inpatient Service Day

ISD – the greater the isd the more the revenue.

Inpatient service days = number of inpatient services for a given period/total number of days

% Occupancy Rate the greater the occupancy the more the revenue for the hospital.

Indicator	X	y
Average daily inpatient	Total Number of	Total Number of Days
	Inpatient Service	For The Same Period
Average Daily Inpatient	Total Number Of	Total number of Days
Census For A&C	Inpatient Service Days	for the same period
Adults and Children	For A&C	
Average Daily Inpatient	Total Number of	Total Number of Days
Census For Newborn	Inpatient Service Days	For the Same Period
	For NBS for a given	
	period	

Bed Turnover Rate

Used to measure Hospital utilization.

Calculation = Total Discharges (including deaths) / Average Bed Count

E.g. A hospital which had 2060 discharges and had 677 beds in the month of March.

2060/677 = 3.0

Meaning each hospital bed had an average of 3 occupants during that month.

Length of Stay

Patient	LOS
1	5
2	3
3	1
4	8
Total length of Stay	27

Average length of Stay 27/5 = 5.4 days

Fetal Death Rate – Still born death

Early Fetal Death – Less than 20weeks gestation or weight of 500g

Intermediate Fetal Death – At least 20 but less than 28 weeks Gestation 501g- 1000g

Late Fetal Death 28 weeks gestation weight >= 1000grams

E.g. hospital with 269 live births and 13 intermediate and late fetal deaths.

13/269+13*100 = 4.6%

Maternal Death Rate (IP)

Death of any woman from any cause related to or aggravated by pregnancy or its management regardless of the duration or site of pregnancy.

Two types

- a) Direct maternal death results from obstetrical compilations of the pregnancy labor or peuperium.
- b).Indirect maternal death is the death of a woman from previously existing disease or a disease that developed during pregnancy.

Maternal death rate maybe an indicator of the availability of prenatal care In a community. It also helps hospitals identify conditions that could lead to maternal death.

Total direct maternal deaths (p)/total maternal discharges including deaths (p) * 100

E.g. A hospital with 275 maternal discharges and 2 deaths in May 2/275*100 = 0.73%

Hospital Infection Rate

Most common morbidity rate calculated for hospitals are related to hospital acquired infections.

Guidelines for reporting all types of infection (types of infection)

- 1. Respiratory
- 2. Gastro intestinal
- 3. Surgical Wound
- 4. Skin
- 5. Urinary Tract
- 6. Septicemia
- 7. Intravascular Catheters

****hospitals should have 0.0% infection

Total hospital infections/Total Discharges including Deaths * 100

E.g. A hospital with 725 Discharges in June and had 32 hospital acquired infections in the same month so the infection rate is 32/725*100 = 4.4%

Post-Operative Infection Rate

Hospital Post-operative infection rate is the proportion or percentage of infection

Number if infections in clean surgical cases(p)/ Total number of surgical operations(p) * 100

Consultation rate

Total number of patients receiving consultations/ Total number of discharges and Deaths * 100

Ambulatory Care Statistics

Ambulatory care includes healthcare services provided to patients who are not hospitalized (Outpatients) Not considered Inpatients or residents and do not stay in the healthcare facility overnight.

Terms

Hospital Ambulatory Care- Hospital Directed Preventive, Therapeutic \$ Rehabilitative Services Provided by physicians and their Surrogates to patients who are not hospital inpatients or home care patients.

Outpatient – A patient who receives care without being admitted for IP or Residential care.

Hospital Outpatient – A patient who receives services in one or more of the facilities owned and operated by a hospital.

Emergency Outpatient – Pt. admitted to emergency department

Clinical Outpatient

Referred OP -

Outpatient visit-

Encounter -

Occasion of service -

Ambulatory Surgery Centers -

