

HOSPITAL UTILIZATION



Declining in-patient utilization → closure / merge many small, rural US hospitals because:

- ★ Higher prices, & little investment in new technology → drive patients away.
- ★ Lower utilization, increases patient's costs →
 cash flow becomes negative.

UTILIZATION INDICES



- * Admission rate: معدل الرقود
 - (Annual admissions / Catch pop) ‰
- × Hospitalization rate/person (hospitalization volume): حجم الرقود للمستشفى (admission per-capita)
- (Annual admissions / Persons admitted) %
- × <u>Average length of stay</u>: (يوم) معدل مكوث المريض **Discharge date – Admission date**

UTILIZATION INDICES (BEDS)

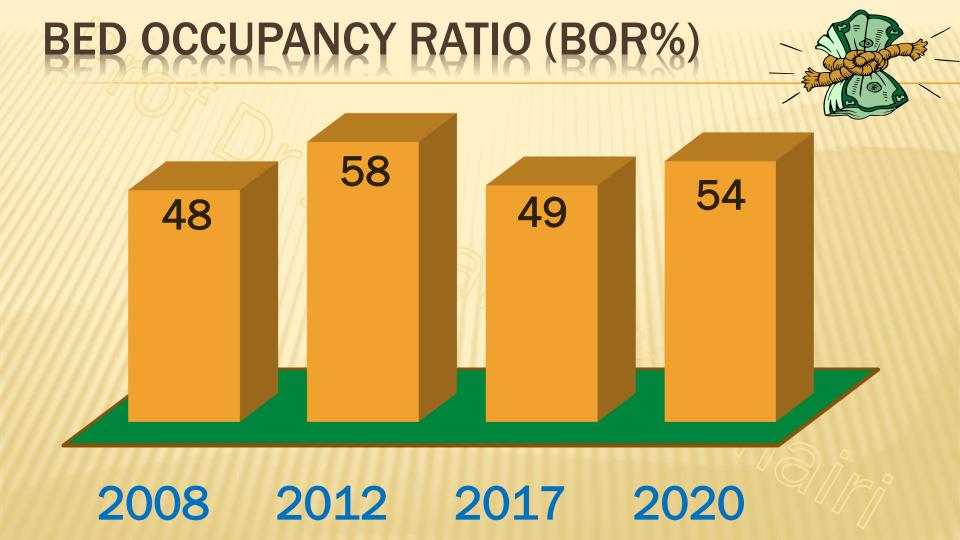


* Bed occupancy rate (ratio) (BOR): نسبة إشغال الأسرة used beds from beds provided (predisposing).

Related to length of stay:

(Average daily admissions / beds) % (Total length of stay per yr / beds x 365)%

Predisposing beds < Tot beds (including casualty)



UTILIZATION INDICES (BEDS)



- * Bed population index (BPI): سرپر/سکان (availability of beds regardless of utilization): (total bed ratio / 1000 pop) (Tot beds / Catch pop) x k
- * Population per bed مواطن لكل سرير Catch pop / tot beds. (= k / BPI)

UTILIZATION INDICES

* Turnover interval (Average period in days that a bed remains empty: (یوم)

(Admission date - Previous patient discharge date)

BOR=100% → turnover =zero
Short turnover → bed shortage.

Long turnover → excess beds

admission policy defect.

HOMEWORK: FIND OUT HOSPITAL INDICES 2020

(WRITE DOWN THE FORMULA IF PRESENT)

Hospital indices 2019

- Total hospitals (gov+private)
- NHE% for hospitals
- Admission rate (inpatient rate/1000): 80.9
- Bed occupancy ratio: 56.5
- Total bed ratio / 1000 pop: 1.2
- Pop per bed
- Total gov beds: 46627
- Predisposing beds: gov & private: 39180+5450
- Outpatient visit / 1000 pop: 703
- Outpatient visit per capita: 1.61

PRACTICAL



STUDY THE FOLLOWING DATA & WRITE YOUR CONCLUSIONS

| US Hospitals utilization data | 1980 | 2000 |
|--------------------------------------|------|------|
| Bed Occupancy rate | 76% | 66% |
| Admission rate (per 1000) | 160 | 120 |
| Average length of stay (days) | 7.6 | 5.8 |
| Outpatient visits / 1000 pop | 890 | 1900 |



Today we are adding years to life, Not life to years