1.

(a) the patient.

2.

(a) the throughput rate is 150 patients / week. (30 patients / day \* 5 days / week)

(b) capacity rate: 90 beds / 3 days. Input rate: 150 patients / 7days. (on average)

Thus, the average utilization is 71.43% (input rate / capacity rate).

(c)

Sunday: 30 patients

Monday: 60 patients

Tuesday to Thursday: 90 patients (peak occupancy)

Friday: 60 patients

Saturday: 30 patients

3.

(a) New throughput rate=150patients/week\* (1+0.20) =150\*1.20=180patients/week.

If Shouldice hospital admits 30 patients for Saturday operations. The beds are not beyond limitation. So, the new throughput rate is 180patients/7days, while the capacity rate of beds will not change. As a result, the average utilization will be 85.71% (180 patients / 7days /(90 beds / 3days)).

4.

(a) Surgeon capacity: