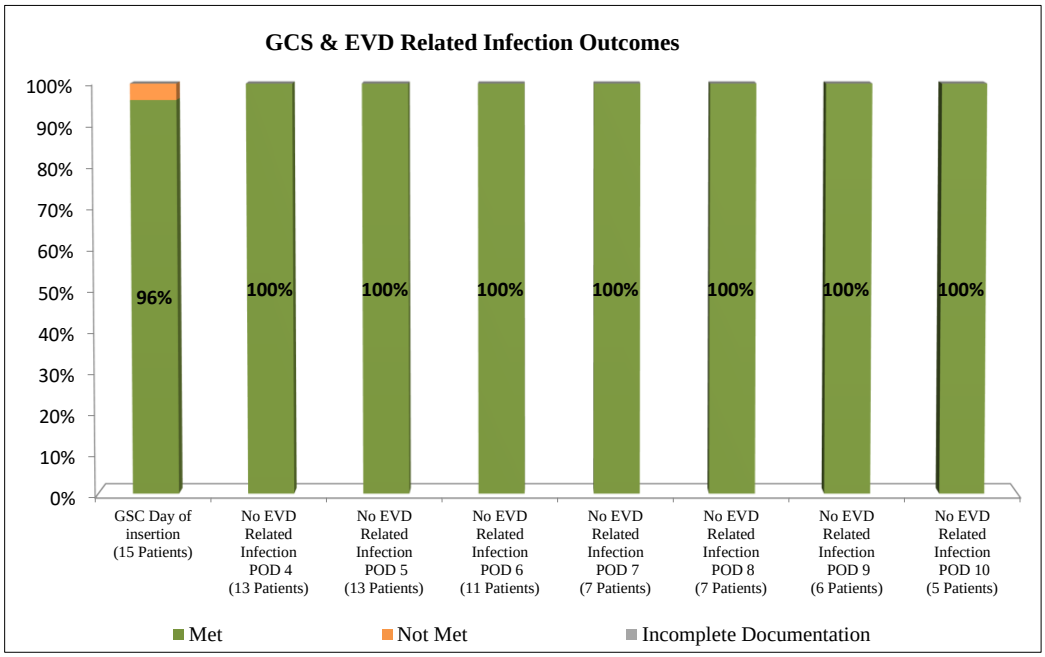
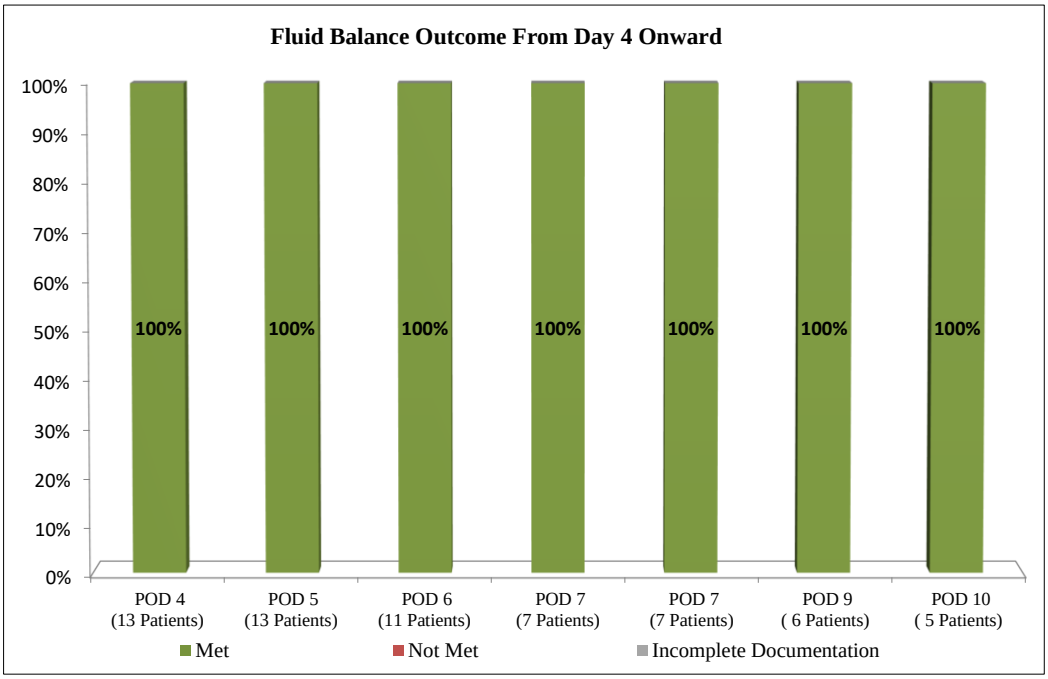
مستشفى الملك فيصل التخصصي ومركز الأبحاث
King Faisal Specialist Hospital & Research Centre
Gen. Org. مؤسسة عامة

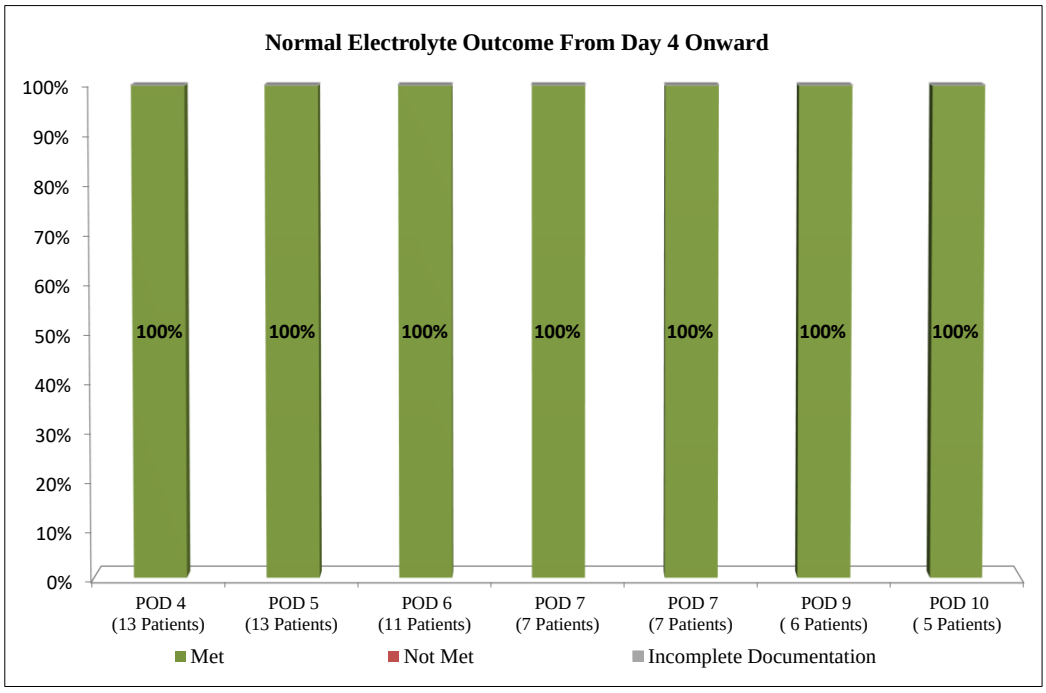
External Ventricular Drain (EVD) Management Post Insertion Clinical Pathway Report

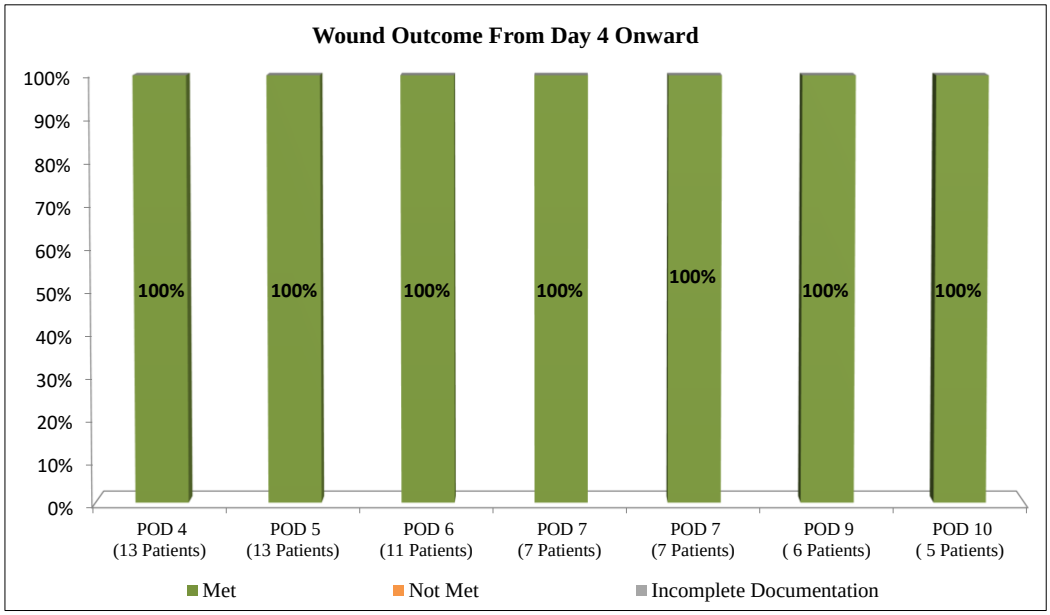
Clinical Pathway 2nd Quarter Report 2021
Data Collection Period: 01 April 2021- 30 June 2021.
Units using the clinical pathway: C1, MICU -L9, MICU -L10, PICU & A2
Data Sources: Retrospective review of Clinical Pathways
Number of patients who had EVD insertion: 15.
Number of patients managed on the Clinical Pathway: 15 (100%).

Clinical Pathway Documentation Compliance				
Discipline	**No. of Adult Patients**	**No. of Peds Patients**	**Complete Documentation**	**Incomplete Documentation**
Medical Doctor	7	8	**90%**	**10%**
C1 Nurse	4	3	**100%**	**0%**
MICU-L10	3	0	**100%**	**0%**
A2 Nurse	0	4	**90%**	**10%**

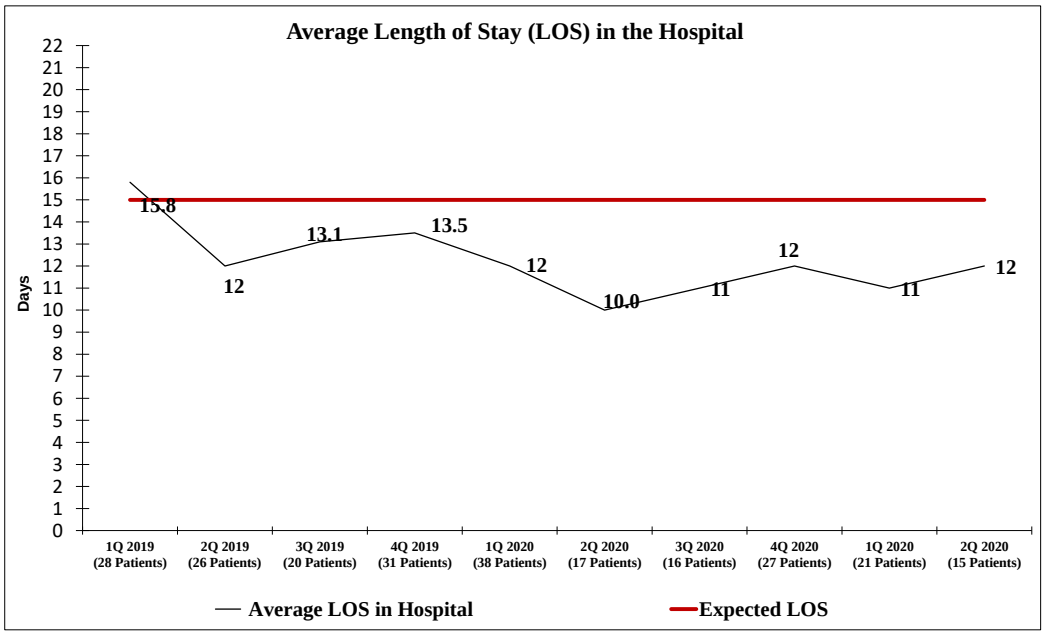


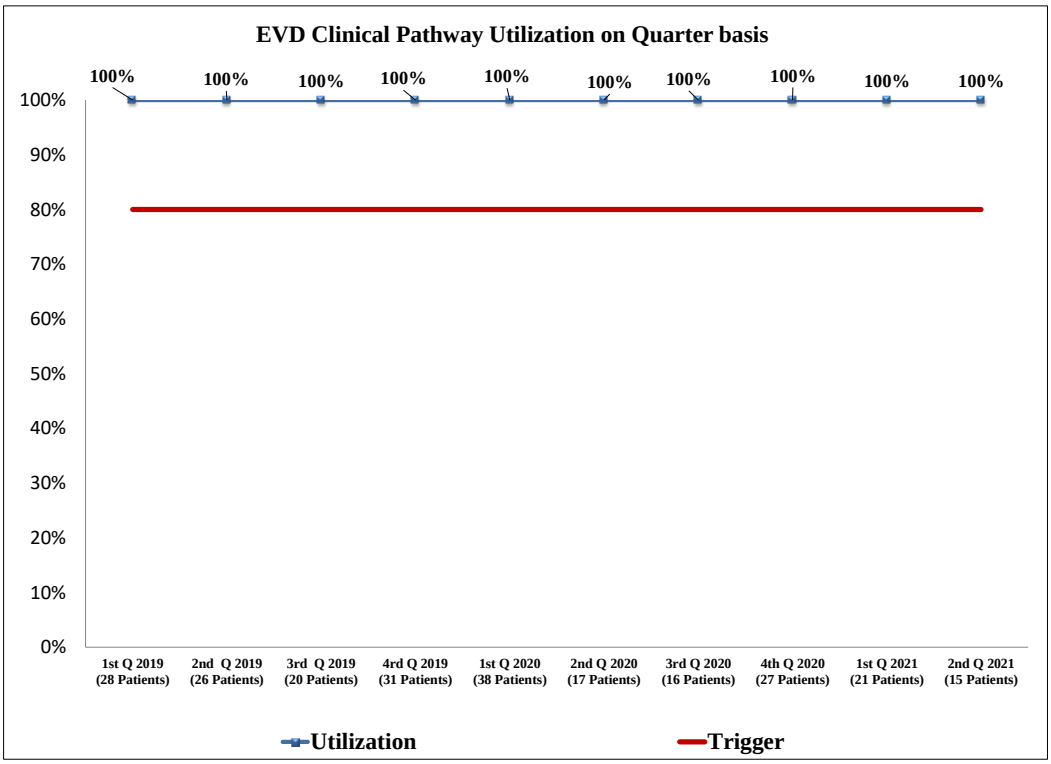

Fluid Balance Outcome From Day 4 Onward
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
100%
100%
100%
100%
100%
100%
100%
POD 4 (13 Patients)
POD 5 (13 Patients)
POD 6 (11 Patients)
POD 7 (7 Patients)
POD 7 (7 Patients)
POD 9 (6 Patients)
POD 10 (5 Patients)
Met
Not Met
Incomplete Documentation

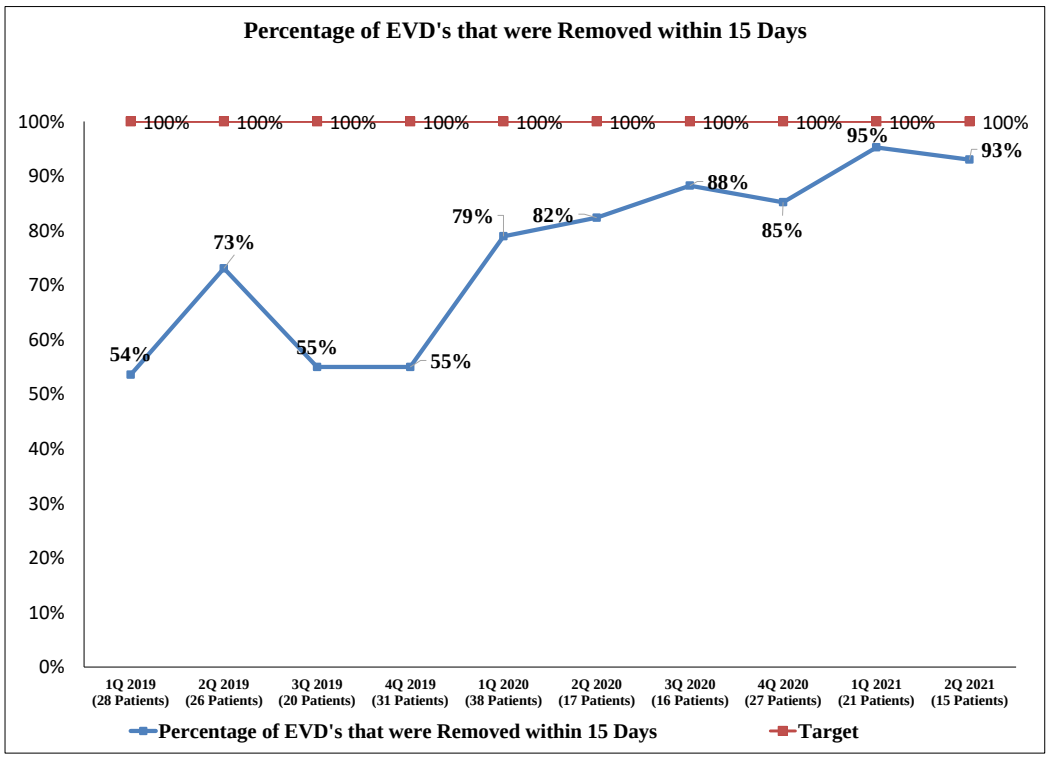

Normal Electrolyte Outcome From Day 4 Onward
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
100%
100%
100%
100%
100%
100%
100%
POD 4 (13 Patients)
POD 5 (13 Patients)
POD 6 (11 Patients)
POD 7 (7 Patients)
POD 7 (7 Patients)
POD 9 (6 Patients)
POD 10 (5 Patients)
Met
Not Met
Incomplete Documentation



Status of all the Inserted EVD's who were put on the clinical pathway	
Day 6	Two (2) EVD were removed
Day 7	Four (4) EVD were removed
Day 9	One (1) EVD was removed
Day 10	One (1) EVD was removed
Day 12	Two (2) EVD were removed
Day 15+	One (1) EVD was removed




EVD Clinical Pathway Utilization on Quarter basis
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1st Q 2019 (28 Patients)
2nd Q 2019 (26 Patients)
3rd Q 2019 (20 Patients)
4rd Q 2019 (31 Patients)
1st Q 2020 (38 Patients)
2nd Q 2020 (17 Patients)
3rd Q 2020 (16 Patients)
4th Q 2020 (27 Patients)
1st Q 2021 (21 Patients)
2nd Q 2021 (15 Patients)
Utilization
Trigger


Percentage of EVD's that were Removed within 15 Days
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
54%
73%
55%
55%
79%
82%
88%
85%
95%
93%
1Q 2019 (28 Patients)
2Q 2019 (26 Patients)
3Q 2019 (20 Patients)
4Q 2019 (31 Patients)
1Q 2020 (38 Patients)
2Q 2020 (17 Patients)
3Q 2020 (16 Patients)
4Q 2020 (27 Patients)
1Q 2021 (21 Patients)
2Q 2021 (15 Patients)
Percentage of EVD's that were Removed within 15 Days
Target

Measure:

The ultimate outcome of this clinical pathway is removal of all EVDs within 15 days

Findings:

1. This quarter 93% of the EVDs were removed within 15 days (n= 14 out of 15 EVD's)

2. This quarter utilization is **100%.**

Action plan:

1. The report to be shared with the respective Healthcare Provider/ Medical Quality Director / Clinical Pathway Coordinator

2. Encourage the Healthcare Providers to utilize the clinical pathway nurse champion as a resource for any clarifications.

3.The initiation of EVD clinical pathway will be limited only to Neurosurgery physicians

4. The EVD life span is now exceeding 15 days by only one or two days with 93% removal within 15 days; and this was based on an agreed upon action plan post the spike that happenned in the 2Q 2020.

Recommendations:

1. Physician / Nurse champions to emphasize on the importance of EVD removal within **15 days** from insertion, if patient is Neurologically stable.