



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

Clinical Pathway 4th Quarter Report 2016

Data Collection Period: 01 October 2016 - 31 December 2016

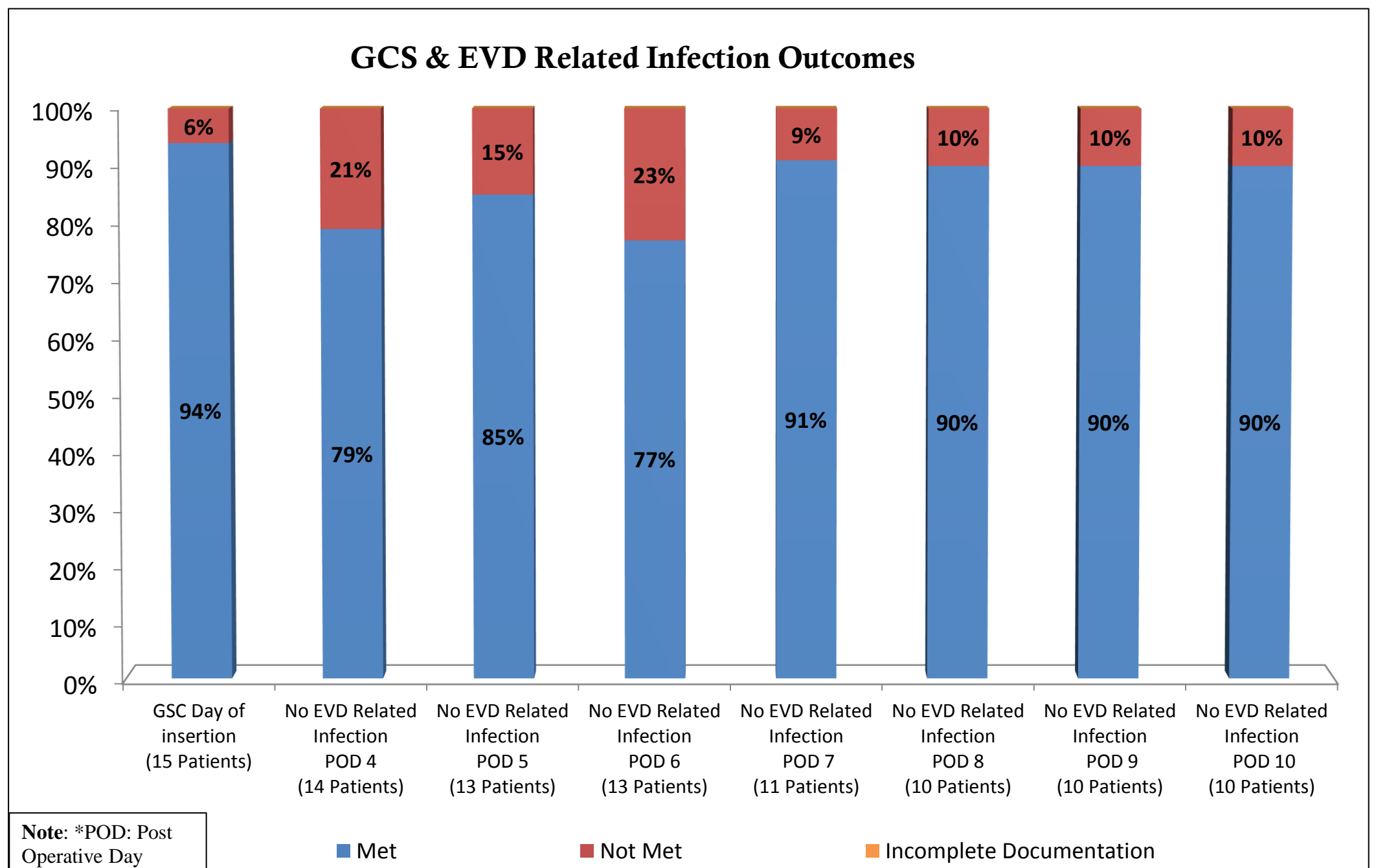
Units using the clinical pathway: C1, SSCU B, MICU C, PICU & A2

Data Sources: Retrospective review of Clinical Pathways

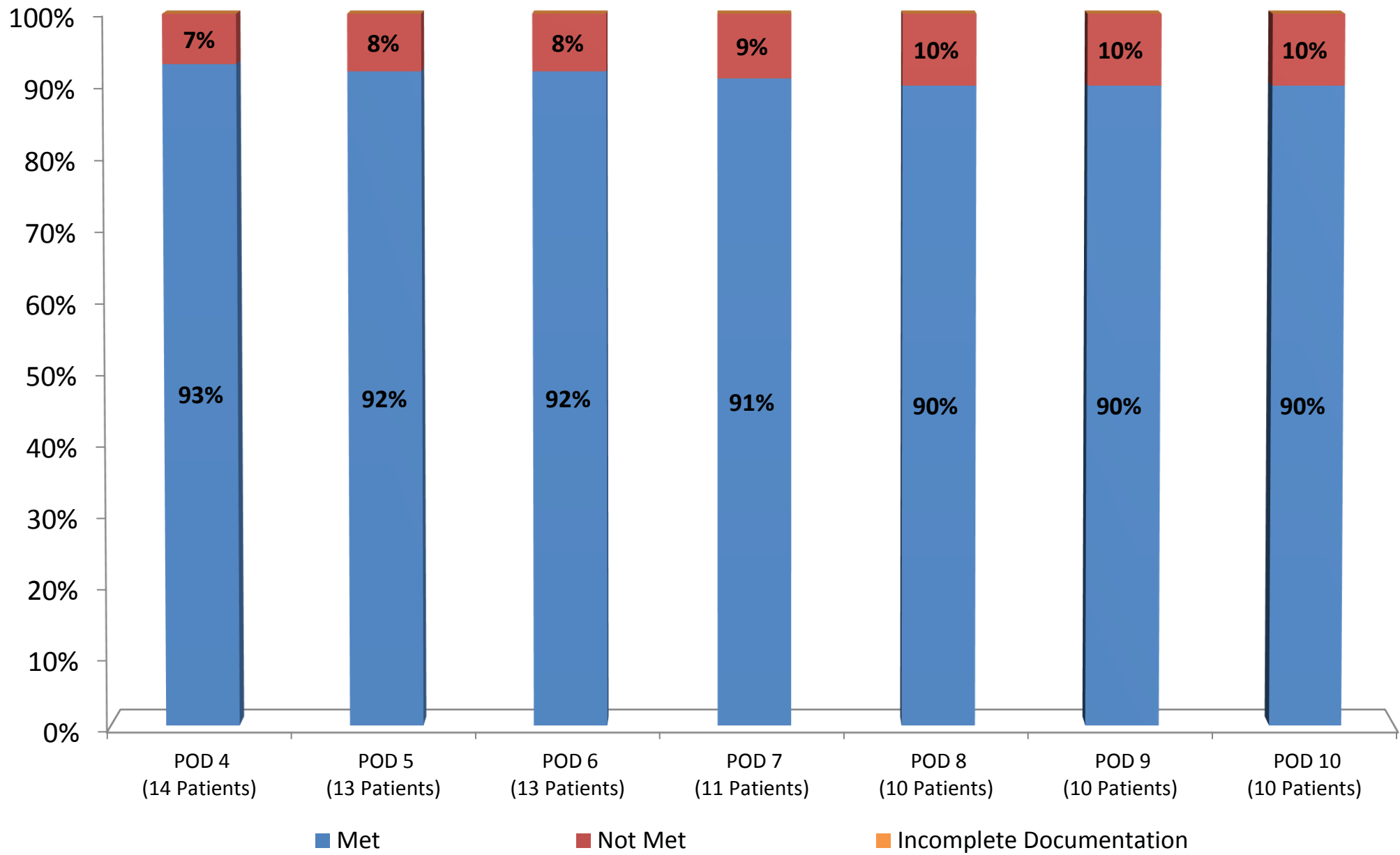
Number of patients who had EVD insertion: 25

Number of patients managed on the Clinical Pathway: **18 (72%)**

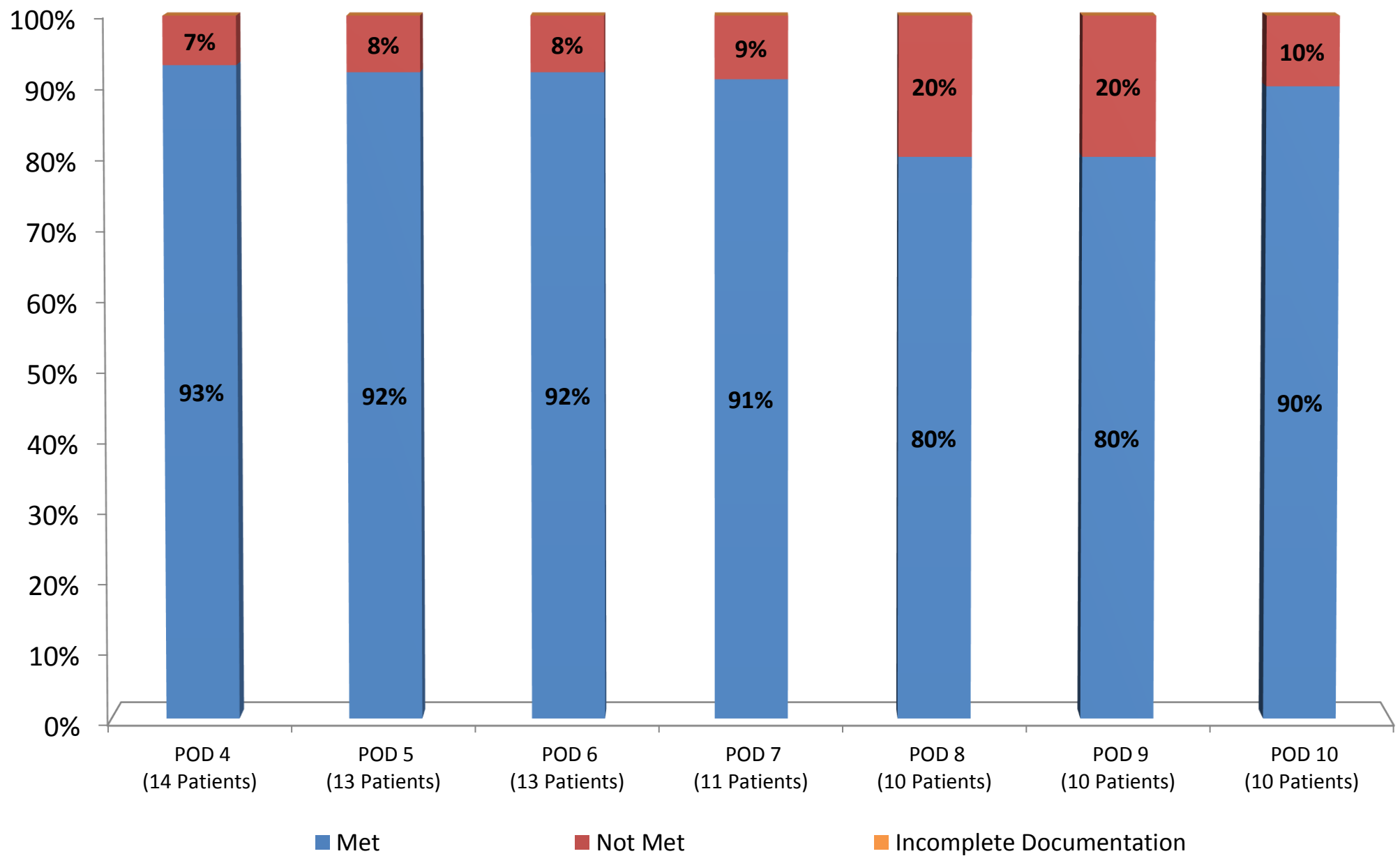
Clinical Pathway Documentation Compliance				
Discipline	No. of Adult Patients	No. of Peds Patients	Complete Documentation	Incomplete Documentation
Medical Doctor	10	8	87%	13%
C1 Nurse	5	1	100%	0%
A2 Nurse	0	5	80%	20%
PICU Nurse	0	2	100%	0%
MICU-C Nurse	1	0	100%	0%
SSCU-B Nurse	4	0	100%	0%

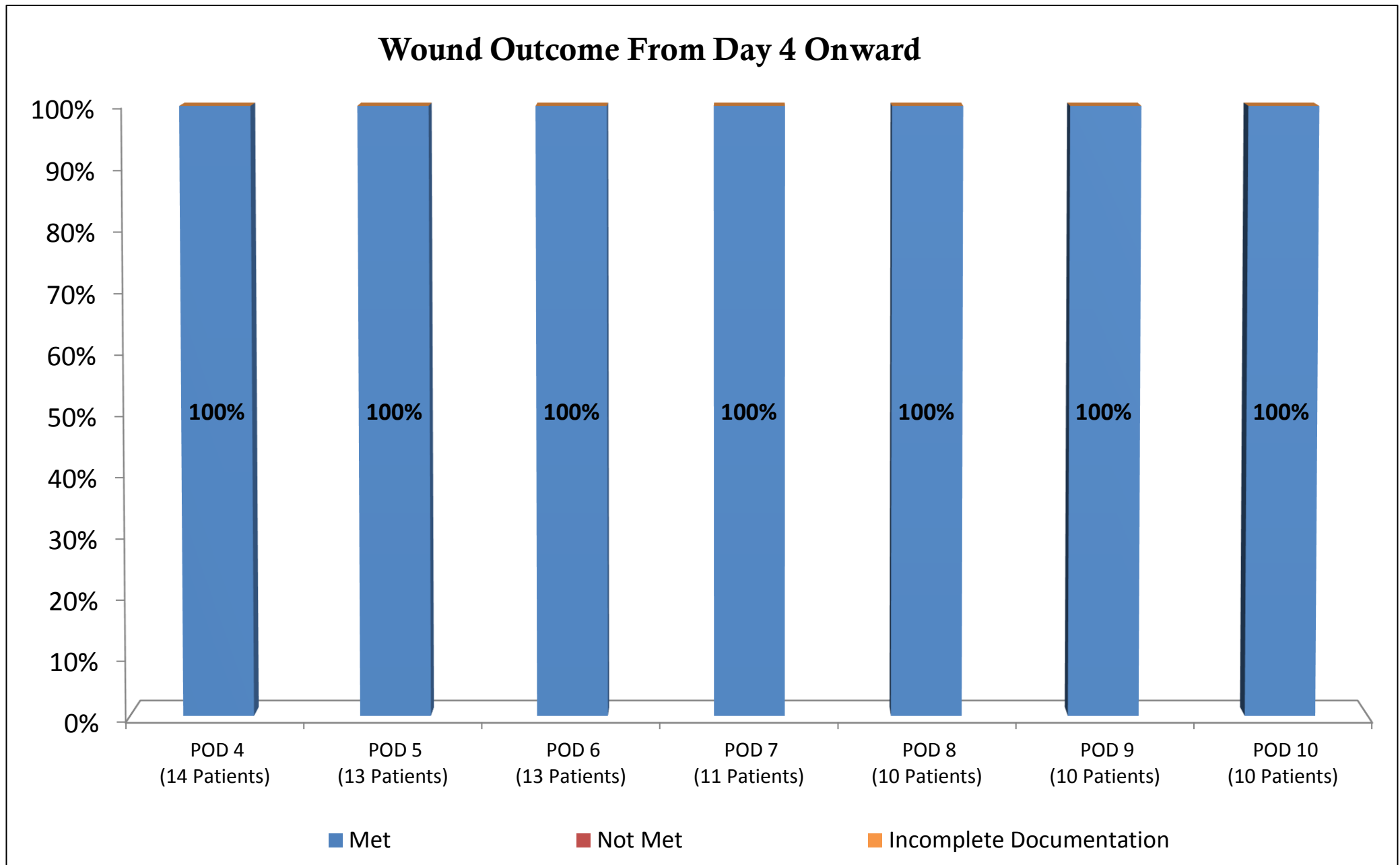


### Fluid Balance Outcome From Day 4 Onward



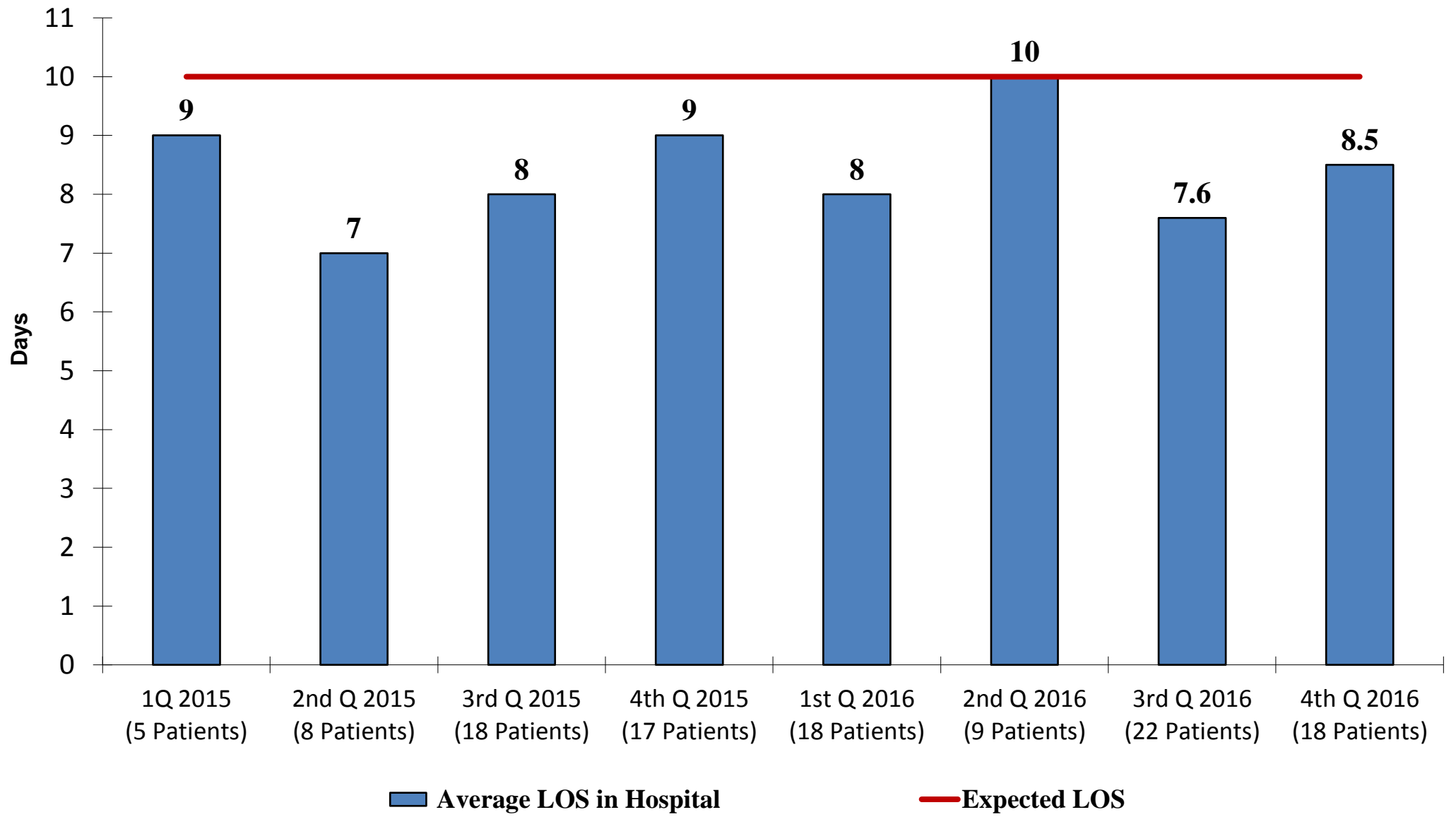
### Normal Electrolyte Outcome From Day 4 Onward



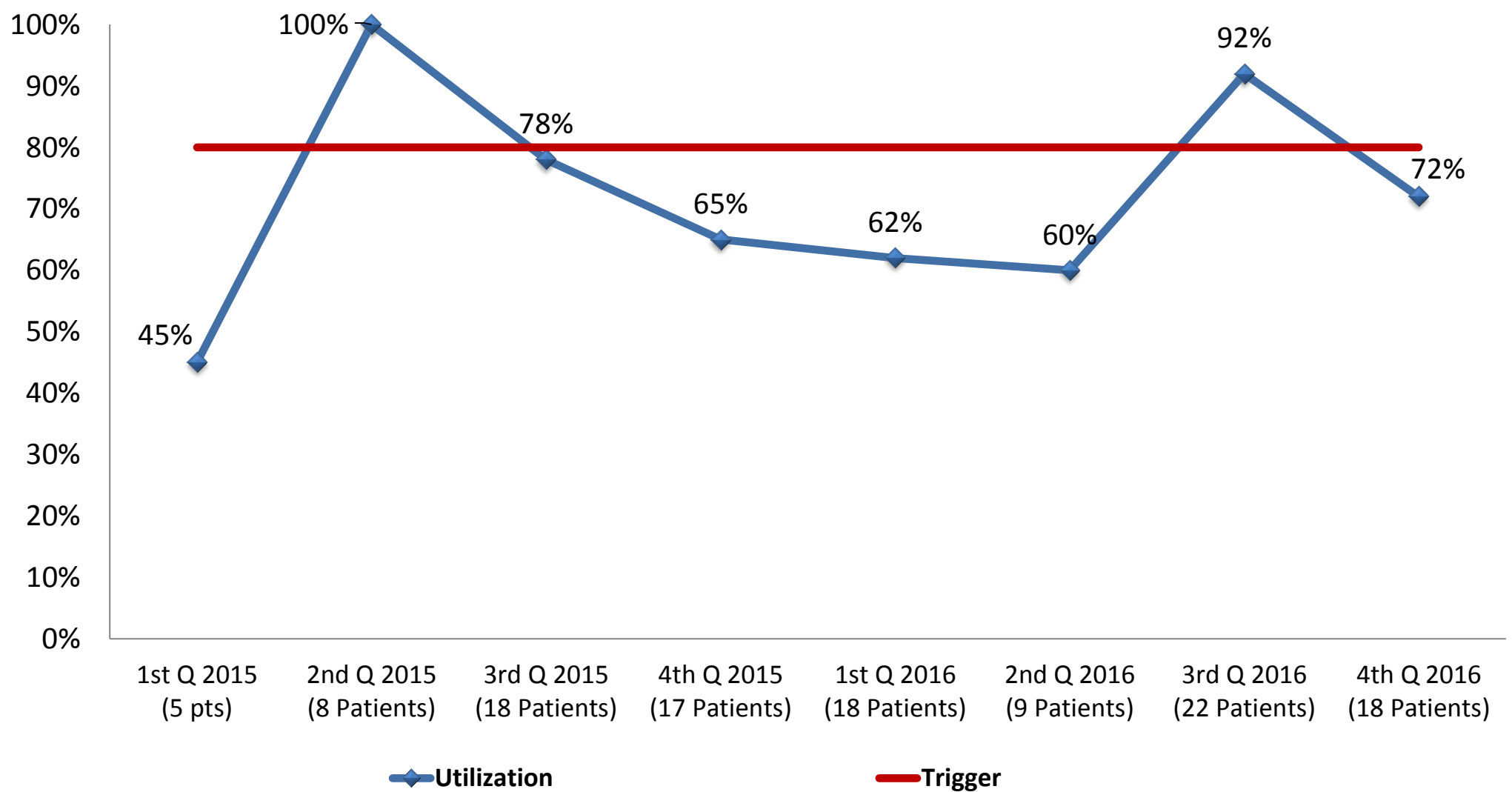


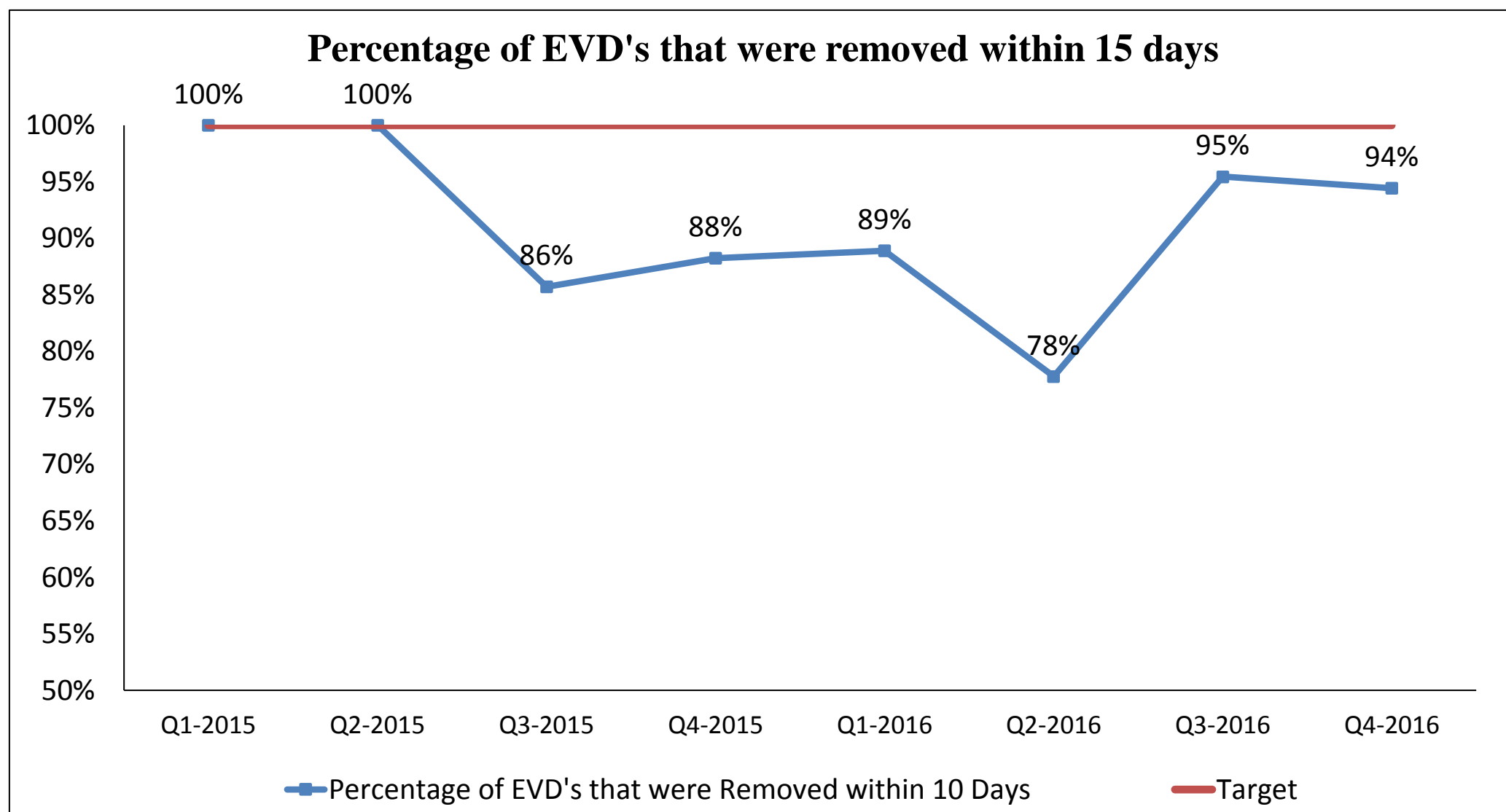
Status of all the Inserted EVD's who were put on the clinical pathway	
Day 3	Three (3) EVD removed and One (1) clamped
Day 4	One (1) EVD removed
Day 6	Two (2) EVD removed
Day 7	One (1) EVD removed
Day 9	One (1) EVD removed
Day 10	Three (3) EVD removed, One (1) EVD removed and converted to VP Shunt and One (1) EVD clamped
Day 11	Two (2) EVD removed
Day 13	One (1) EVD removed
Day 30	One (1) EVD removed

### Average Length of Stay in the Hospital



### EVD Clinical Pathway Utilization on Quarter basis





### Findings:

1. This quarter **25 patients** had EVD insertion and **18 patients** were put on the clinical pathway
2. Utilization is lower than the trigger **72%** this quarter.
3. The long-term outcome for this clinical pathway is **100%** removal of all EVD's within 15 days; for this quarter outcome it is **94%**

### Action plan:

1. Continue monitoring the EVD tracking sheet that was established by SSICU-B to keep track of the patients with the pathway.
2. The report is shared with the respective Healthcare Provider/ Medical Quality Director / Clinical Pathway Coordinator
3. Encourage the Healthcare Providers to utilize the clinical pathway nurse champion as a resource for any clarifications.
4. The Clinical Pathway Coordinator met with the author team and discussed the utilization of the pathway & the Outcome measures; hoping that next quarter will reflect the impact of this meeting.
5. Official memos and email reminder were sent in regard improving outcome measure.

### Recommendations:

1. Keep track of the pathways and pull them from the chart to be sent to MBC#19.
2. Physician / Nurse champions to emphasize on the importance of EVD removal within **15 days** from insertion, if patient is Neurologically stable.
3. EVD life span was extended to 15 days instead of 10 based on new evidence; consequently this will be reflected in the next revision of the clinical pathway.