

# Assessment of Physician Performance in a Liver Transplant Program

Jim Kindscher, MD; Marty De Ruyter, MD; Malik Hamid, MD;  
 Jay Nachtigal, MD; Shea Stoops, DO; David Wild, MD



*Department of Anesthesiology  
 University of Kansas Medical Center, Kansas City, Kansas*

## BACKGROUND

- Performance of individual physicians in a liver transplant program is important to compare and encourage best practice. Little data has been published on anesthesiologists performance in liver transplantation.
- It is important to understand anesthesiologist performance as the beginning of the case is strongly controlled by the anesthesia team, including positioning the patient, attaching monitoring devices, induction of anesthesia, and placement of invasive lines.

## METHODS

- We collected data on 281 consecutive adult liver transplant cases at the University of Kansas Hospital from January 1, 2015-March 1, 2018.
- Eight different anesthesiology physicians participated in transplants during this time period.
- Number of cases each physician performed and average MELD were collected.
- We measured the time from patient entry into the operating room to incision as a marker of anesthesiologists' efficiency in placing invasive lines and getting the patient ready for surgery.
- We also tracked the percentage of patients who were extubated immediately in the operating room at the conclusion of the procedure.

## RESULTS

- Table 1 shows how each individual physician compared in the categories of number of cases performed, average MELD, in-room to incision time, and percentage of patients extubated in the OR.
- The overall average time for in room to incision was 48 minutes, with a standard deviation of 3.0.
- The average immediate extubation was 67% with a standard deviation of 10.

Physician #	No. Cases	MELD	In Room-Incision Minutes	Extubate in OR
1	40	25	50	70%
2	30	26	41	53%
3	65	27	46	55%
4	35	25	46	74%
5	32	28	50	69%
6	39	26	48	65%
7	27	26	46	44%
8	17	26	55	59%

**Table 1. Anesthesiology Physician Performance**

## DISCUSSION

- We believe it is important to track measures of physician performance to encourage best practice and uniformity in approach to care of the transplant patient.

## CONFLICTS OF INTEREST

- There are no conflicts of interest related to this presentation.