

Supplementary Online Content

Schoppy DW, Rhoads KF, Ma Y, et al. Measuring institutional quality in head and neck surgery using hospital-level data—negative margin rates and neck dissection yield [published online October 5, 2017]. *JAMA Otolaryngol Head Neck Surg*. doi:10.1001/jamaoto.2017.1694

eTable 1. Descriptive characteristics of 1,008 hospitals in the final dataset

eFigure. CONSORT diagram illustrating patient/hospital inclusion and exclusion criteria

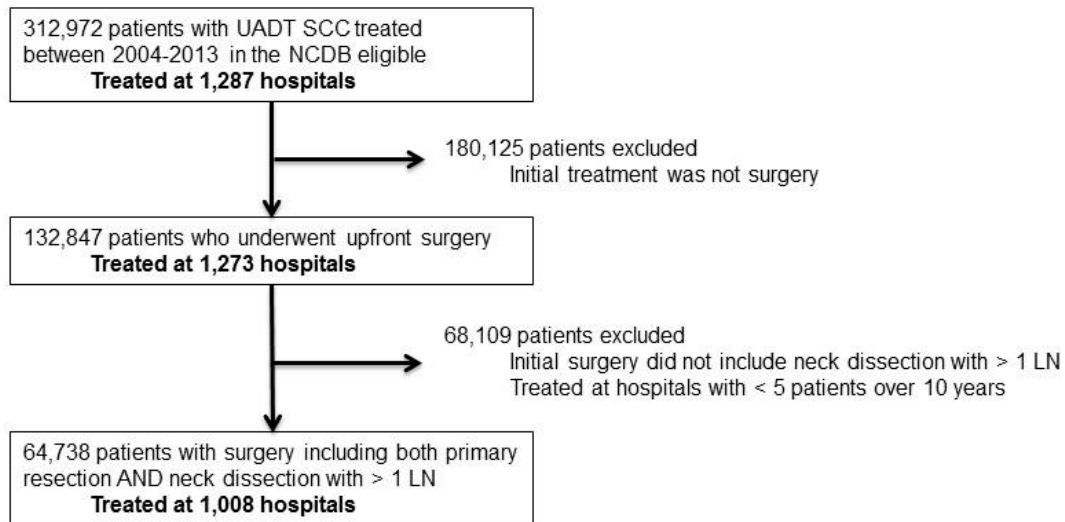
This supplementary material has been provided by the authors to give readers additional information about their work.

Supplemental Table 1: Descriptive characteristics of 1,008 hospitals in the final dataset
(Head and neck cancers, National Cancer Database, 2004 to 2013)

Hospital Characteristic	Overall (n=1,008)	Hospitals not meeting thresholds (n=976)	Neg Margin Rate > 90% LNY ≥ 18 > 80% (n=32)
Avg negative margin rate	79.3%	77.7%	92.8%
Avg rate of LNY ≥ 18	71.1%	69.4%	85.7%
Avg hospital vol (per yr)	32.9	25.1	97.5
% with top quartile vol	25.0%	24.1%	37.5%
% academic teaching	18.9%	18.7%	25.6%
Payer Mix			
% Medicare/Medicaid	47.4%	47.5%	47.1%
% No insurance	5.3%	5.6%	2.7%
% private	44.2%	43.8%	47.1%
Patient Mix			
% Income top quartile	37.2%	37.0%	39.4%
% Education top quartile	33.0%	32.5%	37.1%

(LNY – lymph node yield, neg – negative, avg – average, vol - volume)

Supplemental Figure 1. CONSORT diagram illustrating patient/hospital inclusion and exclusion criteria.



*UADT – upper aerodigestive tract, SCC- squamous cell carcinoma, NCDB – National Cancer Database, LN – lymph node