

The State of Tracheostomy Care

US Perspective

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10,000 Employees1,110 volunteers2,500 physicians1,000 residents5,000 researchers & staff

Serving 540,000 patients Contributed \$315.1 M community benefit \$58.7 M charity care

894 inpatient beds2,400 research studies46,000 inpatient admissions84,090 ER visits

Ranked # 6 in nation (US News & World Report) Ranked # 1 in Chicago & Illinois Magnet

Average 227 tracheostomy placements per year

Multiple readmissions

Multiple practitioners place tracheostomies

ENT, thoracic, trauma, transplant, plastics, pulmonary

Extended lengths of stay for tracheostomy patients

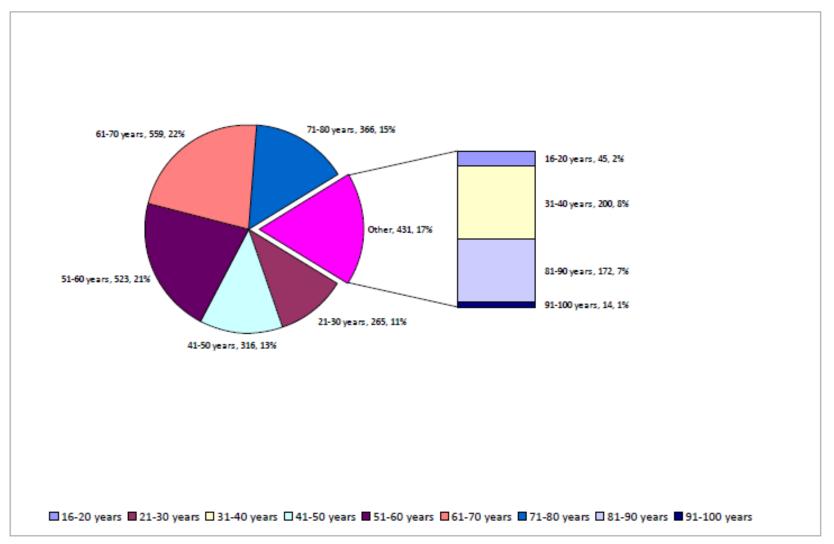
Added hospital reimbursement for patients with a tracheostomy

🔚 Trach Database Maintenance 📳 TCR Report 📳 Total Trach to Decann Days					
Previous Record Record			Delete Record	Northwestern Medicine [®]	
FIN#: Patient Last Name: Patient First Name:		Roo Gen Rac DOB Age	e: Asian 💌	Wednesday,	atabase April 16, 2014 & Charts
Hosp Adm Date: Date of Trach:	26-Nov-13 Admit Age: 07-Dec-13 Update Co-Existin	58 Co-Existing Disease: A-FIB ALS	fungal sinusitis, NSTEMI, anemia, pericardial effusion, ARDS, myxedema	Tracheostomy Consulation (Current Patient)	Tracheostomy Consulation (Not Discharged)
Placed in OR or BS:		Anemia V Past Medical History:	coma, OSA OSA, anemia	Total Patients	Days In Hospital
Service Requested By: Technique:	Open Update Past Medi	ical History DM CRI		Average Patient Census	Admit to Intubation Days
Reason for Trach:	✓	1st ICU Adm Date:	26-Nov-13	Patient Visits	Intubation to Trach Days
Complications, If Any:		1st ICU Disch Date:	22-Dec-13	Avg Minutes Per Patient	Admit to ICU Days
Date Downsize Began:		2nd ICU Adm Date: 2nd ICU Disch Date:		Trach Changes	Days In ICU
Date of Wean:		zna ico Disch Date:		Trach Evalutations	Admit to Trach Days
Decann Date:		Date of Intubation:	27-Nov-13	Trach Teaching	Trachs Placed
Capped Before	~	Date of Mech Vent:	27-Nov-13	Age	Trach to 1st Change Days
Date of 2nd Trach:		2nd Vent Start Date:			
Reason for 2nd Trach:		Total Days on Vent:		Gender	Trach to Downsize Days
		Hosp Disch Date:	09-Jan-14	Race	Trach to Vent Wean Days
		Discharge Disposition:	63 LTAC	Initial Reason for Trach	Trach to Decann Days
		Cause of Death:	×	Discharge Disposition	
				Readmission by Reason	
Tube Changes:	Tube Change Date • One 08-Jan-14	Way Valve Used? 👻		Readmission Per Patient	
	*				
Times Tube Changed:	Record: H 4 1 of 1 > H H2 K	No Filter Search			
Comments:					
Record: 1 1 of 2470	N HE K No Filter Search				

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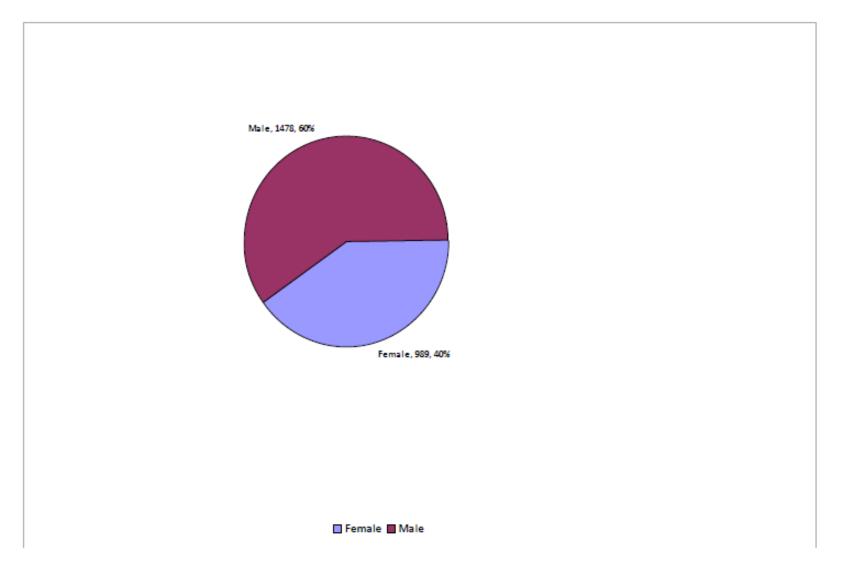
Age Total Patients: 2460







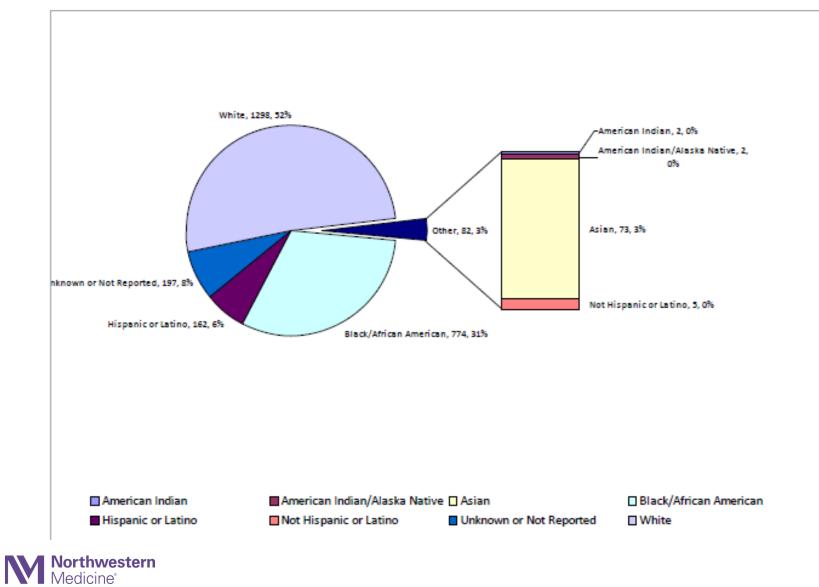
Gender Total Patients: 2467





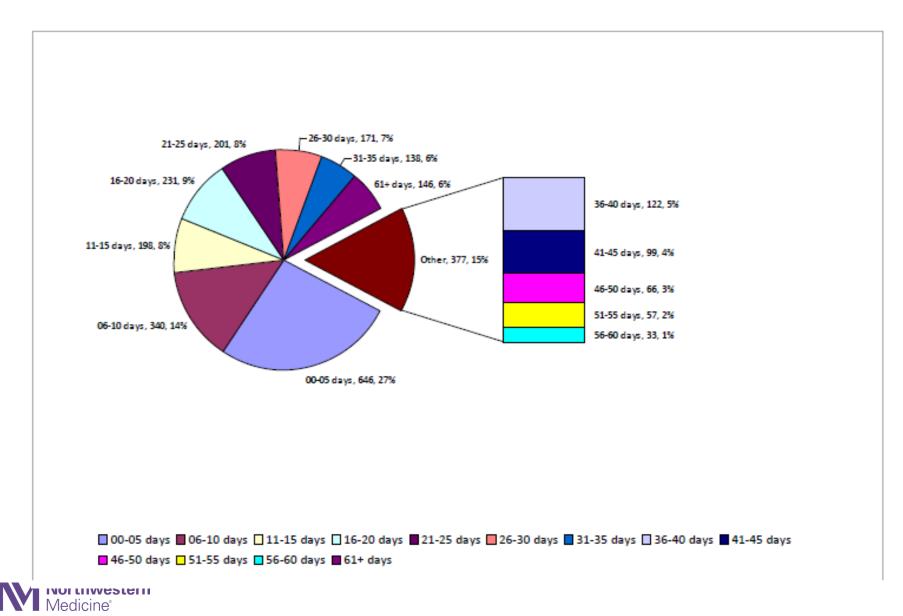


Race



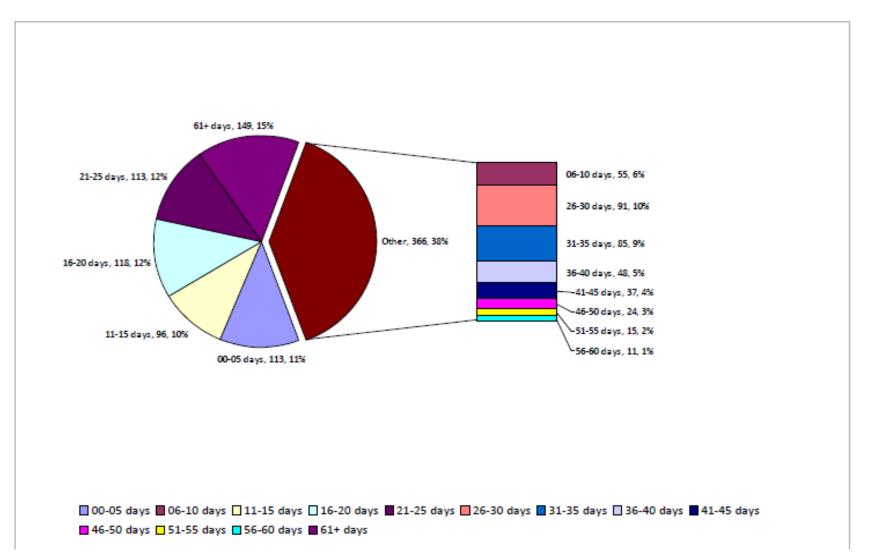


Days In Hospital Total Patients: 2448





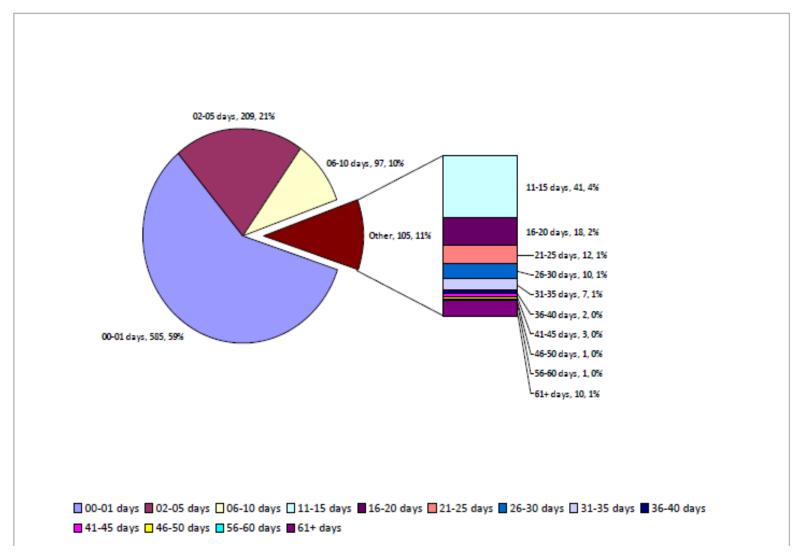
Days In ICU Total Patients: 955







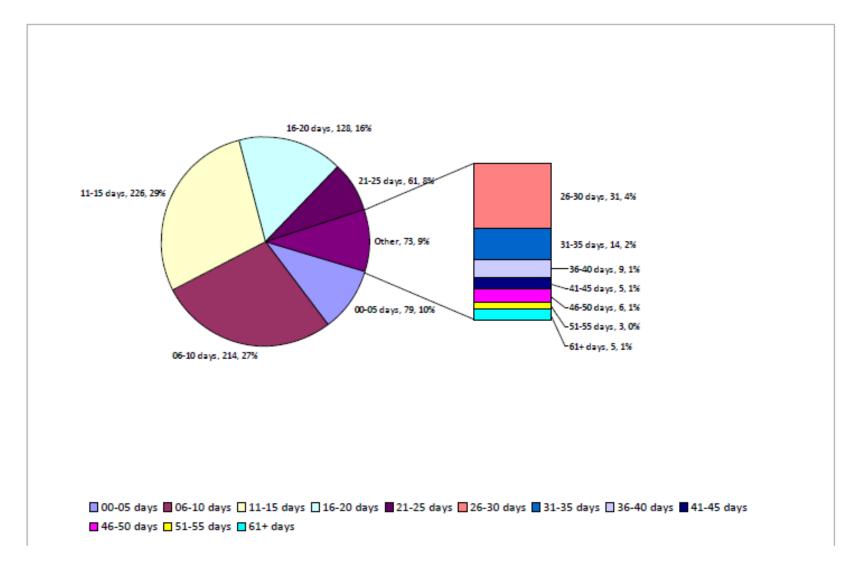
Admit to Intubation Days







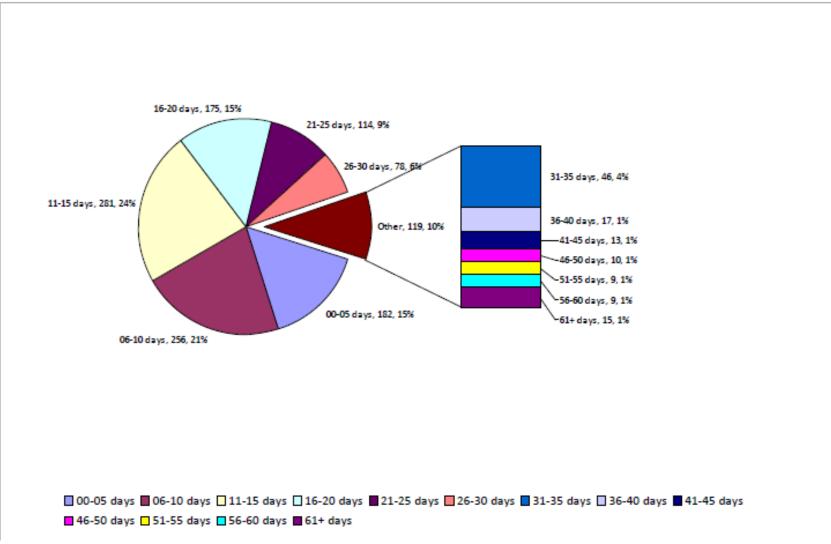
Intubation to Trach Days







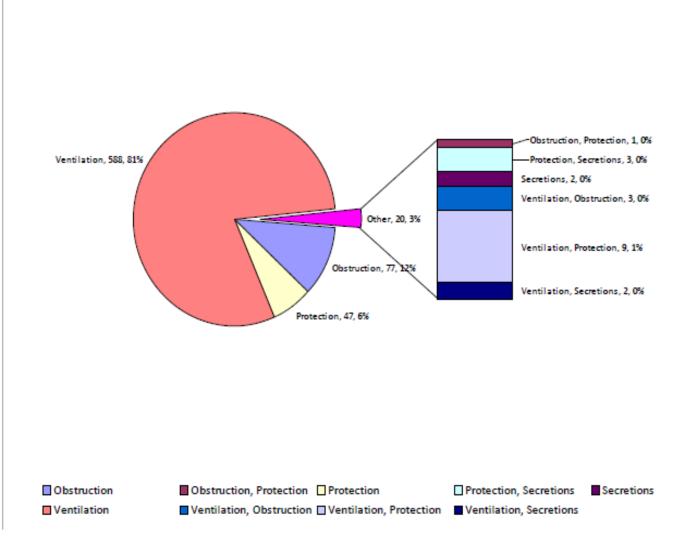
Admit to Trach Days Total Patients: 1205







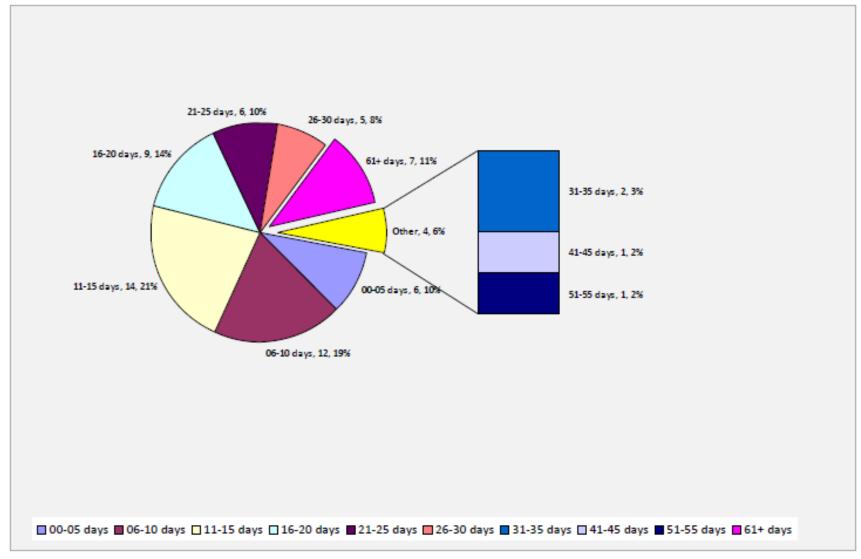
Initial Reason for Trach Total Patients: 732







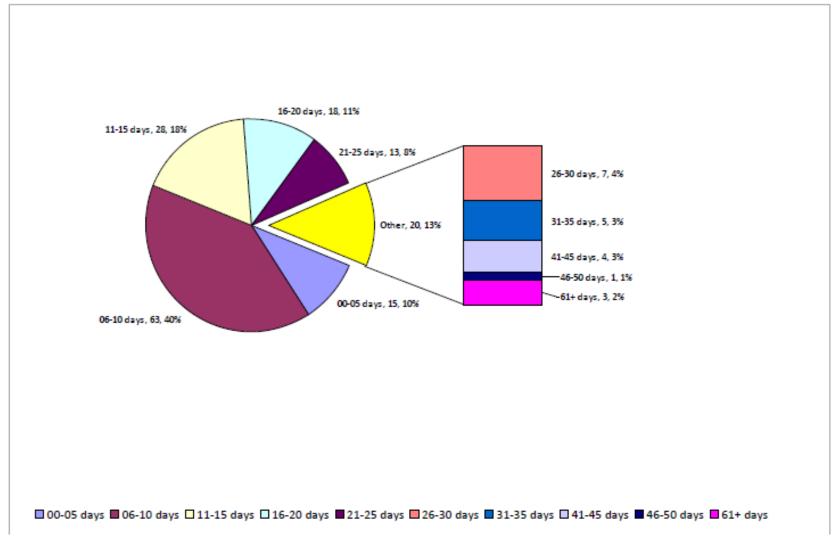
Trach to Decannulation Days







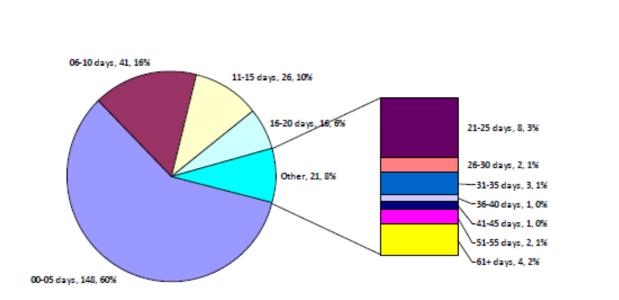
Trach to Downsize Began Days







Trach to Vent Wean Days Total Patients: 252

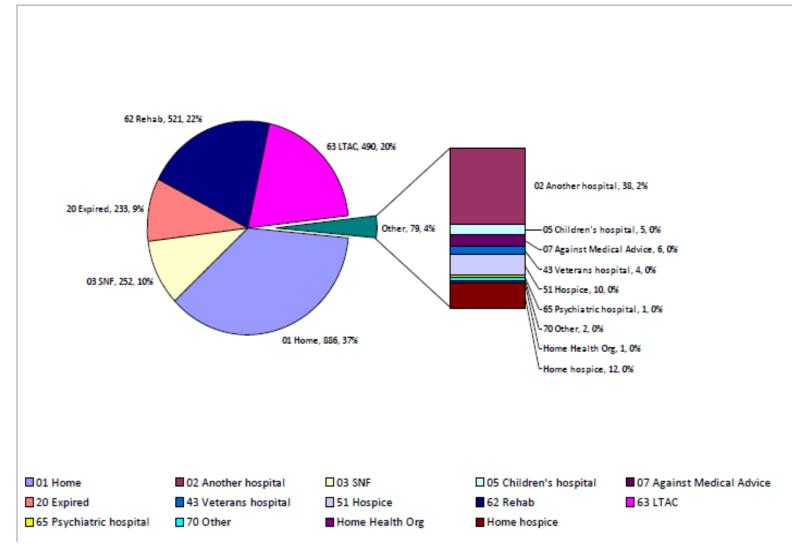


O0-05 days
 O6-10 days
 I1-15 days
 I6-20 days





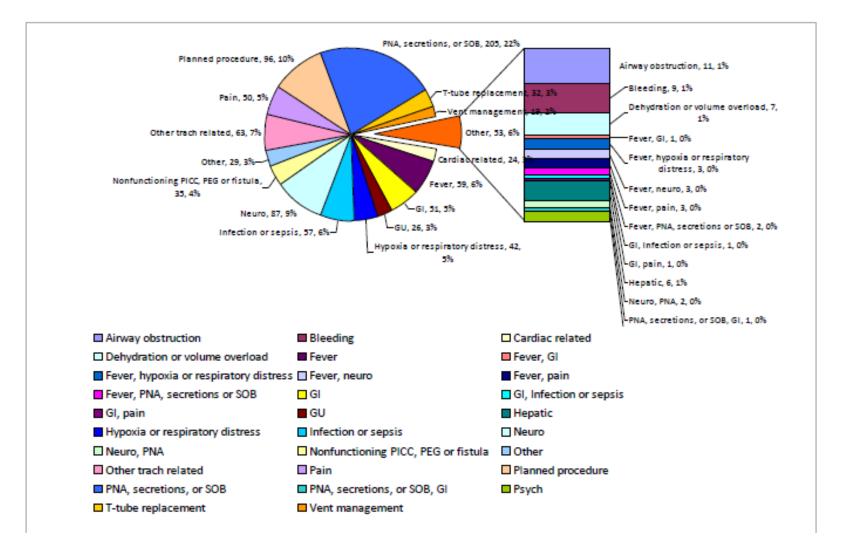
Discharge Disposition Total Patients: 2461



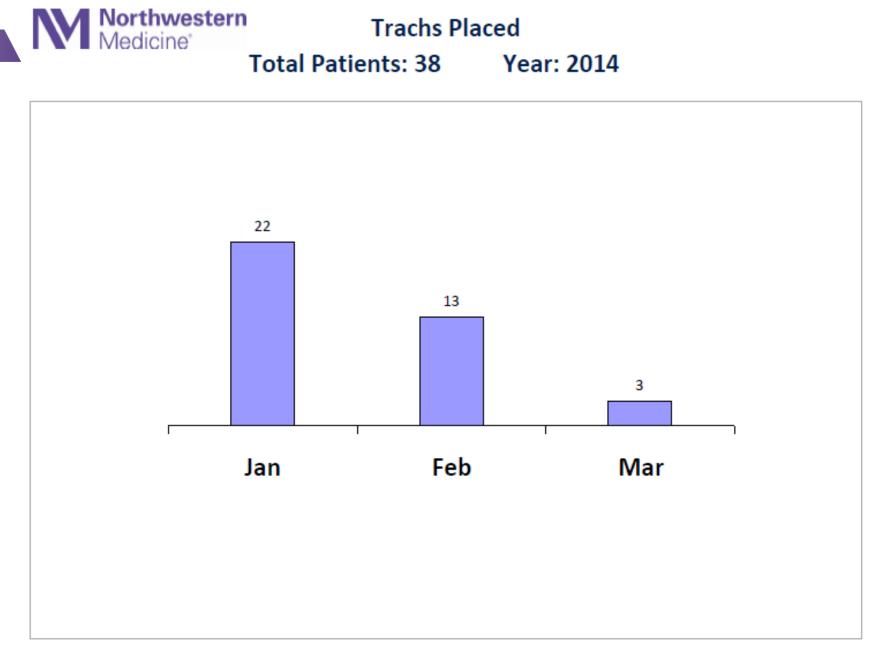




Readmission by Reason





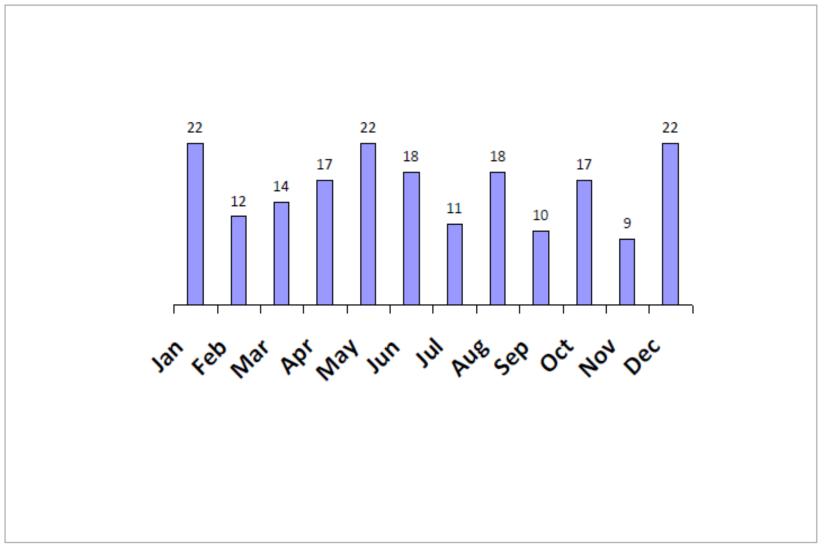






Trach Changes

Total Patients: 192 Year: 2013

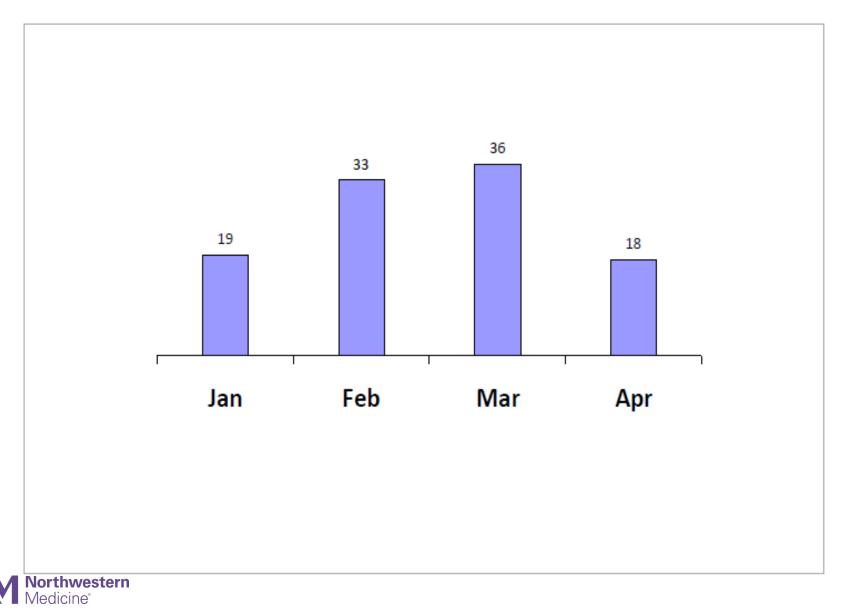






Trach Evaluations

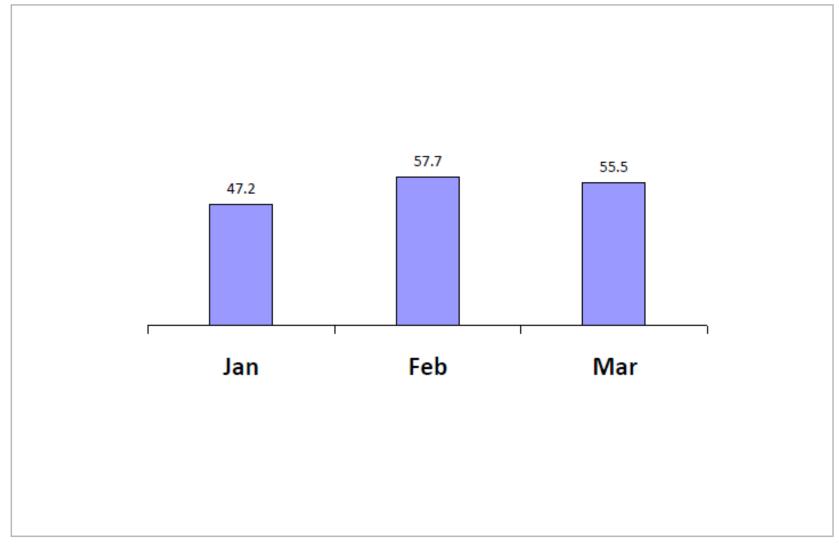
Total Patients: 106 Year: 2014





Average Minutes Per Patient

Yearly Average: 53.5 Year: 2014





Strategies for Success

- Multidisciplinary Trach team
 - Decreased LOS
 - 60-41.5 days (Cameron et al. 2009, *Crit Care Resusc*, 11, 16-19
 - 50-27 days (Parker et al., J Clin Nurs, 2010, 19: 1275-1283)
 - ICU stay 39.4% (Pandian et al. *Otolaryngol Head Neck Surg*, 2012, 147(4) 684-691
 - Decreased incidence of tube blockage 25% v. 5.5% (de Mestral et al. Can J Surg, 54(3), 167-172)
 - Decreased calls for respiratory distress 37.5% v. 16.7% (de Mestral)
 - Increased use of speaking valves
 - 35% to 82% (Cameron)
 - 19.4% to 67.4% (de Mestral)
 - Decreased time to downsizing 26 to 9.4 days (de Mestral)
 - Decreased time to decannulation 50.4 to 28.4 days (de Mestral)



More Strategies

- Bedside tracheostomy kit
 - Includes extra trachs, suction catheters & system, syringe, trach cleaning tray, trach ties, dressings, etc.
- Trach bundle (Arora et al.)
 - Safety equipment
 - Adequate humidification
 - Check inner cannula q 2 hr
 - Check cuff status each shift
 - Dressing change daily
 - Weaning plan documented
 - Care plan documented



Barriers (or "Push-Back")

- Limited budgets:
- Other responsibilities
- People already stretched to the limit
- Training unit 'champions'
 - Need to staff for trained personnel
- Reimbursement issues
 - Inpatient vs. outpatient
 - Early post-op vs. chronic



Thank You

Eleanor Wood Prince Grant: A project of the Woman's Board of Northwestern Memorial Hospital

Christine Milano Venson Kuchipudi



A small group of thoughtful people could change the world. Indeed, it's the only thing that ever has.

Margaret Mead



Questions?

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