

Icu In Hospital

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ABSTRACT: We aimed to construct a mortality prediction model using the random forest(RF) algorithm for acute kidney injury (AK) patients in the intensive care unit (ICU), and compared its performance with that of two other machine learning models and the customized simplified acute physiology score (SAPS) II model.

KEYWORDS: beds, hospitals, intensive care units, united status.

I. INDRODUCTION:

Effective and rational usage of antibiotics in ICUs is important for prevention of development of antibiotic resistance.

Patients have strong emotional reactions prevent equipment dislodgement and providing safe working environment for themselves.

The treatment is directly associated with the degree of certainty in diagnosis.

Technological and therapeutic development in intensive care medicine in recent years, along increased life experience.

YEAR	TITLE AND YEAR PUBLISHED	AUTHO	DR		FINDING
2011	Hospital-Level Changes in Adult ICU Bed Supply in the United States(2011)	• Wallace	David M.Kahn W. Seymour	J.	 Increasingly, intensive care bed expansion in the united states is occurring in larger hospitals and teaching centers, particularly following a year with high ICU occupancy. Although the number of intensive care beds in the united states is increasing, little is known about the hospitals responsible for this growth. We south to better characterize national growth in intensive care beds by identifying hospitals-level factors associated with increasing numbers of intensive care beds over time.

II. REVIEW OF LITERATURE: ENDING



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2012 The Clinical Utility of the Aaron Thrush Measuring Melanie Rozek Functional Status Score outcomes is now for the Intensive Care . Jennifer considered the standard of L. Dekerlegand Unit (FSS-ICU) at a care for physical therapist practice and is essential to Long-Term Acute Care Hospital: A Prospective document the effectiveness of physical Cohort Study.(2012) therapy interventions. As yet, outcome measures have not been developed specifically for patients with chronic illness to measure function in a long-term acute care hospital setting.

2013	Mortality after ho	ospital	•	Ameen	Abu-	• To assess the
	discharge in	ICU	Hanna,			mortality risk of intensive
	patients(2013)			Evert de	Ionge	care (ICU) patients after hospital discharge and
				Lventuc	Jonge,	compare it to mortality of
			•	Dylan	W. de	the general Dutch
			Lange			population
						• In the general
						ICU population the after mortality after hospital is
						substantial and much
						higher than the weighted
						average is substantial and
						much high than the weighted average of
						gender and age specific
						death ricks of the general
						Dutch population.
						In hospital
						mortality understimates the true mortality of ICU
						patients as the mortality
						in the first months after
						hospital discharge is
						substantial. Most ICU
						patients still have an increased mortality risk in
						the subsequent years after
						discharge comparent to
						the general Dutch
						population. The mortality
						after hospital discharge differs widely between
						ICU subgroups. Future
						studies should focus on
						the analysis of mortality
						after hospital discharge
						that is attributable to the former ICU admission.
						ionner 100 admission.



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Var Adu Car Pati For	ientsHospitalized •	• C	ndrew J. Admon hristoper W. Seymour ayley B. Gershengom	• These findings suggest that high –use hospitals may provide an effective target for efforts seeking to increase health- care value through the development of specific ICU admission criteria for PE or the consideration of alternative, less resource- intensive levels of care, such as telemetry or intermediate care.
2016	Prevalence of ESBL in Escherichia Coli Isolates Among ICU Patients in a Tertiary Care Hospital(2016)	•	DHRUBA KUMAR JAGADANANDA JENA BANDANA MALLICK	 Resistance to common antibiotics is a matter of grave concern in treating infections in hospital settings especially in intensive care units (ICUs). The finding of this study emphasizes the need for a continuous surveillance in the ICUs to detect the resistant strains, strict guidelines for the antibiotic therapy and the implementation infection control measures to reduce the increasing burden of infection resistance.
2018	hospital -acquired pr	of ICU- eumonia: neumonia entilator-	 Charles-Edouard Luyl Guillaume Hekimian Desponia Koulenti Jean Chastre. 	 In the future, molecular assays directly applicable to respiratory specimen testing might allow to rapidly determine, Which pathogen is responsible for infection and thus greatly facilitate the selection of the initial regimen, while avoiding using broad-spectrum antibiotics if no MDR pathogens are identified from a deep respiratory tract sample.
2018	Renal Replac Therapy Modality ICU and Renal Rec	in the E	Martin Bonnassieux	• The aim of this study was to assess the influence of initial renal

DOI	10 0 5 6 0 0 / 50 5	0.0010501506			0.01.0		4 7	1 5	
			• Schnei	Antoine	G.	recovery discharge.	at	hospital	
		Discharge(2018)				mouality 0	II ICII	ai	

Antoine Duclos

replacement

modality on renal

therapy

•

at Hospital

Discharge(2018)

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			.
			 In this large
		 Charlotte 	retrospective study,
		Cancalon	intermittent hemodialysis
			as an initial modality was
			associated with lower
			renal recovery at hospital
			discharge among patients
			with acute kidney injury,
			although the difference
			seems some clinically
			limited.
2019	Predicting in-hospital	Ke Lin	• We aimed to
	mortality of patients with		construct a mortality
	acute kidney injury in the	 Yonghua Hu 	prediction model using
	ICU using random forest		the random forest (RF)
	model(2019)	 Guilan Kong 	algorithm for acute
			kidney injury(AKI)
			patients in the intensive
			care unit(ICU)and
			compared its performance
			with that of two other
			machine learning models
			and the customized
			simplified acute
			physiology score (SAPS) II model.
			11 model.

Research gap:

The feedback of training of nurses was done in various methods but not particularly in Madurai, Tamilnadu, India hence we have catered to it.

Data collection:

We used a closed ended questionnaire to collect data. Data collection was done in person in hospitals in Madurai-Tamil Nadu. The nurses were ever co-operative.

We gave more than 120 questionnaires and received valid questions with which we did the analysis.

III. DATA ANALYSIS AND CONCLUSION:

We use excel sheet to analysis data and we use simple random sampling to pick data. Convergent and Discriminant was proved.

The way your doctor involves other doctors and caregivers in your care when needed-4.78125 scores high prooving the quality of service in ICU. Ease of making appointment for checkups (physical exams, well visits, routine follow-up appointments)-4.21875 also is excellent question 10:

Our offices convenience (location, parking, hours, office layout)-4.21875, meaning location is accessible by patients.

Waiting time in our office-1.35 is a negative question scoring low means has a positive feedback on waiting time

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APPENDIX

TRAINEE NAME:	TRAINING CENTRE	
JOB ROLE ENROLLED:	BATCH ID	
TRAINESS NAME:	CENTRE ID	

ABOUT TRAINER AND TRAINING:

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11.2	1		,
urgent problem?			
6.Waithing time			
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7. Ease in			
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information and			
care (test results,			
medicines, care,			
instructions)?			
8.Overall			
medical care at			
your doctors			
office?			
9.Our offices			
appearance?			
10.Our offices			
convenience			
(location,			
parking,			
hours,office			
layour)?			
11.The way we			
teach you about			
improving your			
health?			
12.The your			
doctors involves			
other doctors			
and caregivers			
in your care			
when needed?			