

DACUM Research Chart for Respiratory Therapist

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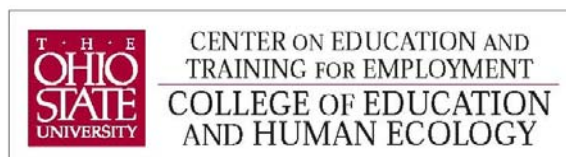
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(Documentation occurs upon completion of every task)

Duties		Tasks				
A	Provide Customer Service*	A-1 Greet patient (name & unique ID)	A-2 Identify self & occupation	A-3 Explain medical procedure(s)	A-4 Address patient grievances	A-5 Address patient needs (e.g., water, pain management)
B	Assess Patient's Condition*	B-1 Obtain patient SBAR	B-2 Review patient medical record	B-3 Assess patient's general appearance	B-4 Assess patient respiratory status (e.g., breath sounds & secretions)	
C	Manage Patient Airways*	C-1 Establish oral/nasal airway	C-2 Establish artificial airway	C-3 Assess proper artificial airway placement	C-4 Secure artificial airway	C-5 Verify cuff pressure
D	Administer Inhaled Medications*	D-1 Verify five rights (e.g., patient, drug, dose, route & frequency)		D-2 Evaluate medication indications & contraindication	D-3 Secure patient medication	D-4 Administer SVN treatment
E	Perform Therapeutic Modalities*	E-1 Perform PAP therapy	E-2 Perform IS therapy	E-3 Perform IPPB therapy	E-4 Perform PD&P therapy	E-5 Perform vest therapy
F	Administer Medical Gases	F-1 Perform oxygen therapy*	F-2 Perform heliox therapy*	F-3 Administer nitric oxide	F-4 Perform hyperbaric therapy	F-5 Administer nitrogen therapy
G	Manage Patient Mechanical Ventilation	G-1 Select ventilator type (e.g., HFOV, volume, pressure)	G-2 Select ventilation mode (e.g., A/C, SIMV, SPONT)*	G-3 Select patient ventilator parameters (e.g., V _T , RR, FiO ₂)*		G-4 Establish ventilator alarms*
H	Perform Blood Gas Testing	H-1 Obtain blood sample*	H-2 Perform blood analysis	H-3 Validate blood gas results	H-4 Interpret blood gas results (e.g., critical values)*	H-5 Communicate blood gas results
I	Perform Emergency Response	I-1 Attend rapid response team alerts	I-2 Respond to code blue alerts	I-3 Attend high risk deliveries	I-4 Assist difficult airway management (e.g., alpha alerts, cardioversion)	
J	Perform Diagnostic Modalities	J-1 Perform pulmonary function studies	J-2 Perform methacholine challenge	J-3 Perform metabolic testing	J-4 Perform pulmonary stress test	J-5 Perform high altitude test
K	Perform Special Procedures	K-1 Perform arterial line insertion	K-2 Perform patient intubations	K-3 Evaluate patient hemodynamics	K-4 Monitor pulse oximetry*	K-5 Monitor patient capnography
L	Maintain Professional Competency	L-1 Maintain life support certifications (e.g., ACLS, PALS, NRP)*		L-2 Maintain professional credentials*	L-3 Maintain professional license*	L-4 Obtain continuing education units (e.g., conferences/seminars)

* Denotes entry-level tasks

A-6 Maintain professional communications (e.g., doctors, nurses)		A-7 Respond to customer requests (e.g., visitors & families)					
B-5 Assess patient vital signs	B-6 Determine patient protocol	B-7 Evaluate patient therapy compliance					
C-6 Maintain airway patency (e.g., suctioning)	C-7 Perform trach care	C-8 Remove artificial airway					
D-5 Administer MDI/DPI treatment(s)	D-6 Administer SPAG treatment	D-7 Administer lavage treatment	D-8 Administer Flolan® therapy	D-9 Monitor patient side effects			
E-6 Perform PEP therapy	E-7 Perform cough assist therapy	E-8 Perform non-invasive positive pressure ventilation (e.g., CPAP & Bi-PAP)					
G-5 Monitor respiratory mechanics (e.g., pressure, compliance, resistance, wave forms)*		G-6 Initiate ventilator protocols (e.g., VAP, ARDSNET, weaning)		G-7 Perform weaning parameters*	G-8 Troubleshoot patient/ventilator problems*	G-9 Perform patient ventilator transports	
H-6 Maintain blood gas analyzer (e.g., Q/C, machine maintenance proficiency testing)							
I-5 Respond to trauma alerts							
J-6 Conduct six minute walk	J-7 Conduct sleep studies	J-8 Conduct nocturnal pulse oximetry	J-9 Assist patient bronchoscopies (e.g., cryo, brachy, argon therapies)	J-10 Perform bronchoalveolar lavage			
K-7 Provide bedside patient education (e.g., pulmonary rehab, homecare)	K-8 Conduct patient pulmonary rehab	K-9 Provide patient homecare	K-10 Assist bedside tracheostomy	K-11 Provide LIXOR® monitor protocol	K-12 Administer SURF therapy	K-13 Provide patient ECMO	K-14 Perform massive fluid transfusion
L-5 Conduct yearly performance assessments	L-6 Conduct employee education (e.g., new employee orientation, in-service training)	L-7 Evaluate new products	L-8 Participate in professional organizations (networking & committees)		L-9 Pursue specialty credentials	L-10 Pursue research opportunities	

General Knowledge and Skills

Communication skills
Decision making skills
Time management skills
Critical thinking
Prioritization skills
Customer service skills
Listening skills
Negotiation skills
Equipment knowledge
Computer skills
Medical terminology
Human anatomy & physiology
Training skills

Microbiology
Pharmacology
Organizational policies
& procedures
Infection control
Ethics
Compliance Issues
Facility layout
Hospital governing agencies
Hospital affiliations
Safety & security
Organizational structure
Pathology

Worker Behaviors

Awareness of limitations
Patient
Team-work/team-player
Respectful
Empathetic
Professional
Organized
Punctual
Flexible
Confident
Competent
Thick-skinned
Stress tolerant
Productive
Detail oriented

Motivated
Positive attitude
Persuasive
Problem-solver
Willingness-to-learn
Open-minded
Adaptable
Tolerant
Multi-tasking
Caring
Determination
Calm
Assertive
Innovative

Tools, Equipment, Supplies and Materials

Computers
Telecommunications
(e.g. pager, cell phone, radio)
Uniforms
ID/security controls
Oxygen Equipment
(e.g. Hi-flow, Lo-flow)
Medical gas cylinders
Medication delivery devices
Blood gas supplies
Blood gas analyzers
Intubation supplies (e.g., LMA,
Combitube, subglottic)
Lung expansion devices
Airway clearance devices
Chest physiotherapy devices
Monitoring devices (e.g., pulse ox,
apnea, hemodynamics,
capnography)
Specialty supplies (e.g., ECMO,
trach, argon, cryo)

Software
Stethoscope
Pulmonary function equipment
Methacholine challenge supplies
Bronchoscopy equipment
Sleep study equipment
Non-invasive ventilation equipment
(e.g., Bi-Pap, CPAP)
Patient education materials
Emergency response equipment
Airway management devices (e.g.,
oral, nasal, cuff pressure manometer)
Tracheotomy supplies
Ventilators (e.g., adult, pediatric,
transport, neonate)
Weaning parameter devices
Rapid infuser - trauma
Personal protective equipment
Reference materials
Fax machine
Office supplies

Future Trends and Concerns

Healthcare reforms
Paperless systems
Electronic medical records
Smart technology
Non-invasive procedures
Artificial intelligence for ventilators
Advanced monitoring systems
Streamlined organizations
Economic changes
Job market fluctuation
Advance degrees
Increased specializations

Respiratory Therapy Acronyms

Acronyms	Description
A/C	Assist Control
ABG	Arterial Blood Gas
ACLS	Advanced Cardiac Life Support
ACT	Assessment Consultation Team
ARDSNET	Acute Respiratory Distress Syndrome Network
BAL	Bronchoalveolar Lavage
Bi-PAP	Bi-level Positive Airway Pressure
BLS	Basic Life Support
CPAP	Continuous Positive Airway Pressure
CPR	Cardiopulmonary Resuscitation
CPT	Chest Physiotherapy
DPI	Dry Power Inhaler
ECMO	Extracorporeal Membrane Oxygenation
ET	Endotracheal Tube
FiO ₂	Fraction of Inspired Oxygen
HFOV	High Frequency Oscillation Ventilation
IPPB	Intermittent Positive Pressure Breathing
IS	Incentive Spirometry
MDI	Metered Dose Inhaler
NRP	Neonatal Resuscitation Program
PALS	Pediatric Advanced Life Support
PAP	Positive Airway Pressure
PD&P	Postural Drainage & Percussion
PEP	Positive Expiratory Pressure
PFT	Pulmonary Function Test
PPV	Positive Pressure Ventilation
QC	Quality Controls
RAT	Rapid Action Team
RR	Respiratory Rate
RRT	Rapid Response Team
SBAR	Situation, Background, Assessment, Response
SIMV	Synchronized Intermittent Mandatory Ventilation
SPAG	Small Particle Aerosol Generation
SPONT	Spontaneous
STEMI	ST Elevation Myocardial Infarction
SURF	Surfactant
SVN	Small Volume Nebulizer
VAP	Ventilator Associated Pneumonia
V _T	Tidal Volume