

# DACUM Research Chart for Respiratory Therapist

## DACUM Panel

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Produced for



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Duties		← Tasks →				
<b>A</b>	<b>Perform Patient Assessment</b>	A-1 Obtain patient's history (e.g., medical, social, family, job)		A-2 Review patient's chest x-ray	A-3 Review patient's lab data	A-4 Assess patient's level of consciousness
		A-12 Measure patient's hemodynamic values	A-13 Evaluate patient's ventilatory graphics	A-14 Evaluate patient's oxygenation status		
<b>B</b>	<b>Ensure Patient Oxygenation</b>	B-1 Choose oxygen appliance	B-2 Titrate patient's oxygen	B-3 Monitor patient's response to oxygen therapy	B-4 Administer supplemental medical gases, (e.g., heliox, nitric)	
<b>C</b>	<b>Provide Pulmonary Therapeutic Modalities</b>	C-1 Administer respiratory medications	C-2 Perform CPT	C-3 Perform Aerosol Therapy	C-4 Perform IPV Therapy	C-5 Perform Percussive Vest Therapy
		C-13 Instruct patient on MDI with spacer	C-14 Instruct patient on PEP therapy	C-15 Instruct patient on acapella therapy	C-16 Instruct patient on DB&C	C-17 Instruct patient on IS therapy
<b>D</b>	<b>Manage Patient's Airway</b>	D-1 Evaluate patient's ABC's	D-2 Perform mouth to mask/mouth to mouth ventilation		D-3 Perform jaw-thrust maneuver	D-4 Utilize adjunct airways
<b>E</b>	<b>Provide Ventilatory Support For Patient</b>	E-1 Implement conventional ventilation procedure		E-2 Implement non-invasive ventilation procedure	E-3 Implement HFOV procedure	E-4 Implement VDR procedure
<b>F</b>	<b>Monitor Patient's Physiological Condition</b>	F-1 Perform pulse oximetry	F-2 Monitor SV <sub>O</sub> <sub>2</sub>	F-3 Measure NIBP	F-4 Perform ABG procedure	F-5 Perform ECG
<b>G</b>	<b>Perform Diagnostic Studies</b>	G-1 Conduct sleep studies	G-2 Apply holter monitor	G-3 Perform PFT	G-4 Measure PEFR	G-5 Measure weaning parameters
<b>H</b>	<b>Provide Clinical Documentation/Charting</b>	H-1 Initiate physician's respiratory care orders	H-2 Obtain informed consent for respiratory procedure	H-3 Document patient assessment	H-4 Document respiratory procedures performed on patient	
<b>I</b>	<b>Maintain Respiratory Equipment</b>	I-1 Clean respiratory equipment	I-2 Calibrate ventilators	I-3 Troubleshoot respiratory equipment	I-4 Arrange for respiratory equipment repairs	I-5 Stock respiratory equipment
<b>J</b>	<b>Provide Clinical Education</b>	J-1 Provide education on disease processes	J-2 Provide education on therapeutic modalities	J-3 Provide education on diagnostic studies	J-4 Provide education on smoking cessation	J-5 Provide education on oxygen therapy

A-5 Assess patient's oxygenation status	A-6 Evaluate patient's vital signs	A-7 Assess patient's work of breathing	A-8 Assess patient's breath sounds	A-9 Evaluate patient's cough	A-10 Evaluate patient's sputum characteristics	A-11 Assess patient's physical mobility
B-5 Provide CPAP therapy	B-6 Provide oxygen to patient during transport					
C-6 Perform IPPB Therapy	C-7 Perform Flutter Valve Therapy	C-8 Perform PAP Therapy	C-9 Perform NT Suctioning	C-10 Perform ET Suctioning	C-11 Perform Quad-Cough Procedure	C-12 Perform IMT Therapy
C-18 Delivery humidification therapy	C-19 Assist with therapeutic bronchoscopy					
D-5 Apply cricoid pressure	D-6 Perform manual ventilation via BVM	D-7 Intubate patient	D-8 Place patient in recovery position	D-9 Provide heat and/or humidity for the patient	D-10 Change tracheostomy tube	D-11 Extubate patient
E-5 Adjust ventilator settings	E-6 Implement non-conventional ventilator settings		E-7 Maintain ventilation during patient transport	E-8 Resolve ventilatory complications	E-9 Wean patient off of ventilator	E-10 Discontinue ventilation
F-6 Apply apnea monitor	F-7 Insert arterial line	F-8 Evaluate hemodynamic pressure lines	F-9 Trend patient's CO <sub>2</sub>			
G-6 Measure calorimetry	G-7 Conduct multi-channel studies	G-8 Conduct overnight oximetry study				
H-5 Document patient's response to therapy	H-6 Document patient education provided	H-7 Document patient's respiratory care charges	H-8 Document occurrence report	H-9 Update respiratory departmental logbooks	H-10 Update respiratory treatment schedules	
I-6 Replace respiratory equipment parts	I-7 Evaluate new respiratory equipment					
J-6 Provide education on ventilatory support	J-7 Provide education on pulmonary therapeutic modalities		J-8 Provide education on airway management	J-9 Provide education on physiologic monitoring	J-10 Provide education on respiratory equipment	J-11 Participate in multi-disciplinary rounds

## Duties

## Tasks

**K** Participate in Professional Development

K-1 Attend educational lectures

K-2 Update respiratory competencies

K-3 Renew respiratory professional licensure

K-4 Research new developments affecting respiratory therapy

### General Knowledge and Skills

Verbal and written communication skills  
Critical thinking skills  
Basic medical knowledge  
Pulmonary physiology  
Human anatomy  
Problem-solving skills  
Hand/eye coordination  
Organizational skills  
Respiratory care equipment  
Ability to prioritize  
Time management skills  
Computer skills  
Ability to write legibly  
Inter/intra-personal skills  
Multicultural sensitivity

### Worker Behaviors

Professionalism  
Organized  
Thorough  
Skilled  
Self-starter  
Passionate  
Compassionate  
Stable  
Objective  
Perseverant  
Autonomous  
Doesn't take life too seriously  
Ethical  
Personable  
Punctual  
Honest  
Impressionable  
Adaptable  
Flexible  
Good under pressure  
Humble  
Out-going/People Person  
Caring  
Empathetic  
Physical  
Analytical  
Think outside the box

### Tools, Equipment, Supplies and Materials

Stethoscope  
Oximeter  
Ventilators  
Oxygen appliances  
BiPAP/CPAP  
Aerosol therapy appliances  
Filters, heaters  
Analysers  
Manometer  
Respirometer  
Blood pressure cuff  
Assorted electronic monitoring equipment  
Pressure tubing  
Medications  
Pressure bag  
Ambu bag  
General office supplies & equipment  
Reference materials  
Mechanical tools  
Laryngoscope  
IPV machine  
IPPB  
Syringes  
Spacer  
Suction catheters/tubing  
Transport  
Monitors/ventilators  
Endotrach tube  
Computers  
Cleaning supplies  
Pagers/phone  
Oxygen tanks  
Flowmeters & regulators  
Scissors and hemostats  
Twill tape  
Electrodes

### Future Trends and Concerns

Occupational recruitment  
Increasing respiratory patient population  
Recognizing the patient as a whole rather than just a set of lungs with respiratory disease  
Oacuity of patients  
Update on current evidence-based practice of respiratory care (more proactive teaching)  
Third party payers/insurance companies  
Proactive stance on respiratory associations  
Bio-terrorism  
HIPPA  
Intensivist programs  
Lack of ownership of our profession  
Look for ways to expand our scope of practice  
Increase awareness of respiratory profession  
Importance of communicating with other disciplines

### Acronyms

CPT – Chest Physiotherapy  
IPV – Intra Pulmonary Percussive Ventilation  
IPPB – Intermittent Positive Pressure Breathing  
IS – Incentive Spirometry  
VDR – Volumetric Diffusive Respiration  
PAP – Positive Airway Pressure  
DBandC – Deep Breathing and Cough  
NT – Naso-Tracheal  
ET – Endo-Tracheal  
IMT – Inspirotory Muscle Training  
PEP – Positive Expiratory Pressure  
MDI – Metered Dose Inhaler

SVO<sub>2</sub> – Venous Oxygen Saturation  
NIBP – Non-invasive blood pressure  
ABG – Arterial Blood Gases  
PEFR – Peak Expiratory Flow Rate  
CO<sub>2</sub> – Carbon Dioxide  
ECG – Electro Cardio Gram  
HFDV – High Frequency Oscillatory Ventilation  
CPAP – Continuous Positive Airway Pressure  
PFT – Pulmonary Function Test  
ABC's – Airway Breathing Circulation  
BVM – Bag Value Mask  
VO<sub>2</sub> – Oxygen Consumption