

## **Disclaimer**

The FDA chose a specific outcome algorithm that met its need for a given medical product-outcome assessment. The use of a specific outcome algorithm in a Sentinel assessment should not be interpreted as an endorsement from FDA to use the algorithm for all safety assessments. Investigators should always consider the objective, study design, analytic approach, and data source of a given medical product safety assessment when choosing the outcome algorithm. The suitability of an outcome algorithm may change when applied to different scenarios. For additional information, please refer to the

<u>Best Practices for Conducting and Reporting Pharmacoepidemiologic Safety Studies Using Electronic Healthcare Data</u> guidance document provided by the FDA.



## **Overview**

Title	COVID-19 Severity Algorithm Defined in "Risk of Adverse Maternal Health Outcomes Among Pregnant Patients With and Without COVID-19: A Propensity Score Matched Analysis"
Request ID	cder_mpl2p_wp048
Description	This report lists International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), Current Procedural Terminology, Category III (CPT Category III), Current Procedural Terminology, Fourth Edition (CPT-4), and Revenue codes and algorithms used to define COVID-19 severity in this request.
	For additional information about the algorithm and how it was defined relative to the cohort and exposure(s) of interest in the analysis, refer to the analysis webpage here: https://www.sentinelinitiative.org/studies/drugs/individual-drug-analyses/risk-adverse-maternal-health-outcomes-among-pregnant
Outcome	COVID-19 Severity
The COVID-19 severity outcome is characterized mutually as exclusive descriptors of COVID-19 sever the same obstetric-related period of interest as COVID-19 identification using ICD-10-CM, ICD-10-PCS HCPCS, CPT Category II, CPT Category III, CPT-4, and Revenue codes in the maternal records. The numerically highest endpoint took precedence in establishing the hierarchy per patient. Levels 2-5 ar severe endpoints as hospitalized diagnoses; level 1 is non-severe. Level 5: Hospitalization for COVID-19 with expired discharge status (death); Level 4: Hospitalization for COVID-19 with acute respiratory distress syndrome (ARDS) or requiring ventilation; Level 3: Hospitalization for COVID-19 with an intensive care unit (ICU) admission; Level 2: Hospitalization for COVID-19 with co-occurring pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy; Level 1: Any other occurrence of COVID-19 (non-severe)	
Query Period	January 1, 2020 - November 30, 2023
Request Send Date	February 8, 2024



## **Glossary**

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or missing (U)

**Outcome** - outcome of interest (either primary or secondary)

**Principal Diagnosis (PDX)** - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

**Query Period** - period in which the modular program looks for exposures and outcomes of interest **Request Send Date** - date the request was sent to Sentinel Data Partners



Code List 1. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), Current Procedural Terminology, Category III (CPT Category III), Current Procedural Terminology, Fourth Edition (CPT-4), and Revenue Codes Used to Define COVID-19 Severity in this Request

	·	Care	Code	
Code	Description	Setting	Category	Code Type
	Hierarchical severity level 4: Acute respiratory distress syndrome, intubation, or invasi	ve mecha	nical ventila	tion
J96	Respiratory failure, not elsewhere classified	IP* IS*	Diagnosis	ICD-10-CM
J960	Acute respiratory failure	IP* IS*	Diagnosis	ICD-10-CM
J9600	Acute respiratory failure, unspecified whether with hypoxia or hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
J9601	Acute respiratory failure with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
J9602	Acute respiratory failure with hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
J962	Acute and chronic respiratory failure	IP* IS*	Diagnosis	ICD-10-CM
J9620	Acute and chronic respiratory failure unspecified with hypoxia/hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
J9621	Acute and chronic respiratory failure with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
J9622	Acute and chronic respiratory failure with hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
J969	Respiratory failure, unspecified	IP* IS*	Diagnosis	ICD-10-CM
J9690	Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
J9691	Respiratory failure, unspecified with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
J9692	Respiratory failure, unspecified with hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
180	Acute respiratory distress syndrome	IP* IS*	_	ICD-10-CM
31500	Intubation, endotracheal, emergency procedure	IP* IS*	Procedure	
31600	Tracheostomy, planned procedure	IP* IS*	Procedure	
31603	Tracheostomy, emergency procedure, transtracheal	IP* IS*	Procedure	
31605	Tracheostomy, emergency procedure, cricothyroid membrane	IP* IS*	Procedure	CPT-4
31730	Transtracheal (percutaneous) introduction of needle wire dilator/stent or indwelling tube for oxygen therapy	IP* IS*	Procedure	CPT-4
33946	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; initiation, veno-venous	IP* IS*	Procedure	CPT-4
33947	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; initiation, veno-arterial	IP* IS*	Procedure	CPT-4
33948	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; daily management, each day, veno-venous	IP* IS*	Procedure	CPT-4
33949	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; daily management, each day, veno-arterial	IP* IS*	Procedure	CPT-4
33951	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, birth through 5 years of age (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33952	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (include fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4



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33954	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), open, 6 years and older	IP* IS*	Procedure	CPT-4
33956	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; insertion of central cannula(e) by sternotomy or thoracotomy, 6 years and older	IP* IS*	Procedure	CPT-4
33958	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33962	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), open, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33964	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition central cannula(e) by sternotomy or thoracotomy, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33966	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older	IP* IS*	Procedure	CPT-4
33984	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), open, 6 years and older	IP* IS*	Procedure	CPT-4
33986	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33987	Arterial exposure with creation of graft conduit (eg, chimney graft) to facilitate arterial perfusion for ECMO/ECLS (List separately in addition to code for primary procedure)	IP* IS*	Procedure	CPT-4
33988	Insertion of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	IP* IS*	Procedure	CPT-4
33989	Removal of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	IP* IS*	Procedure	CPT-4
99504	Home visit for respirator care	IP* IS*	Procedure	CPT-4
09HN7BZ	Insertion of Airway into Nasopharynx, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
09HN8BZ	Insertion of Airway into Nasopharynx, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
0B113F4	Insertion Of Endotracheal Airway Into Trachea, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
0B113Z4	•	IP* IS*		ICD-10-PCS
0B114F4	Insertion Of Endotracheal Airway Into Trachea, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS



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0B114Z4	Bypass Trachea To Cutaneous, Percutaneous Endoscopic Approach	IP* IS*	Procedure	ICD-10-PCS
OB21XEZ	Change Endotracheal Airway In Trachea, External Approach	IP* IS*	Procedure	ICD-10-PCS
OB21XFZ	Change Endotracheal Airway In Trachea, External Approach	IP* IS*	Procedure	ICD-10-PCS
OBH13EZ	Insertion of Endotracheal Airway into Trachea, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
OBH17EZ	Insertion of Endotracheal Airway into Trachea, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
OBH18EZ	Insertion of Endotracheal Airway into Trachea, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
OCHV7R7	Insertion of Airway into Mouth and Throat, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
	Insertion of Airway into Mouth and Throat, Via Natural or Artificial Opening Endoscopic			ICD-10-PCS
OCITIODE	insertion of All way into Wouth and Throat, via Natural of Artificial Opening Endoscopic	11 15	Troccaure	10 10 1 05
ODH57BZ	Insertion of Airway into Esophagus, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
0DH58BZ	Insertion of Airway into Esophagus, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
4168F	Patient receiving care in the intensive care unit (ICU) and receiving mechanical	IP* IS*	Procedure	СРТ
	ventilation, 24 hours or less (CRIT)			Category II
E	Extracorporeal Membrane Oxygenation, Continuous	IP* IS*	Procedure	CDT 4
	Extracorporeal Oxygenation, Membrane, Central	IP* IS*		ICD-10-PCS
	Extracorporeal Oxygenation, Membrane, Peripheral Veno-arterial	IP* IS*		ICD-10-PCS
	Extracorporeal Oxygenation, Membrane, Peripheral Veno-venous	IP* IS*		ICD-10-PCS
	Respiratory Ventilation, Single, Nonmechanical	IP* IS*		ICD-10-PCS
	Respiratory Ventilation, Single, Normechanical Respiratory Ventilation, Less than 24 Consecutive Hours	IP* IS*		ICD-10-PCS
	Respiratory Ventilation, 24-96 Consecutive Hours	IP* IS*		ICD-10-PCS
	Respiratory Ventilation, Greater than 96 Consecutive Hours	IP* IS*		ICD-10-PCS
94002	Ventilation assist and management, initiation of pressure or volume preset ventilators	IP* IS*	Procedure	
94002	for assisted or controlled breathing; hospital inpatient/observation, initial day	IF IS	Procedure	CF1-4
94003	Ventilation assist and management, initiation of pressure or volume preset ventilators	IP* IS*	Procedure	CPT-4
	for assisted or controlled breathing; hospital inpatient/observation, each subsequent			
	day			
94004	Р	IP* IS*	Procedure	CPT-4
	for assisted or controlled breathing; nursing facility, per day			
A4483	Moisture exchanger, disposable, for use with invasive mechanical ventilation	IP* IS*	Procedure	
A4623	Tracheostomy, inner cannula	IP* IS*	Procedure	
E0465	Home ventilator, any type, used with invasive interface, (e.g., tracheostomy tube)	IP* IS*	Procedure	HCPCS
J1325	Injection, epoprostenol, 0.5 mg	IP* IS*	Procedure	HCPCS
Z9911	Dependence on respirator [ventilator] status	IP* IS*	Diagnosis	ICD-10-CM
	Hierarchical severity level 3: Intensive care unit (ICU) admission			
200	ICU general	IP* IS*	Procedure	Revenue
201	ICU surgical	IP* IS*	Procedure	
202	ICU medical	IP* IS*	Procedure	Revenue



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203	ICU pediatric	IP* IS*	Procedure	Revenue
204	ICU psychiatric stay	IP* IS*	Procedure	Revenue
206	ICU intermediate	IP* IS*	Procedure	Revenue
207	ICU burn care	IP* IS*	Procedure	Revenue
208	ICU trauma	IP* IS*	Procedure	Revenue
209	ICU other	IP* IS*	Procedure	Revenue
210	CCU	IP* IS*	Procedure	Revenue
211	CCU myo infarc	IP* IS*	Procedure	Revenue
212	CCU pulmonary	IP* IS*	Procedure	Revenue
213	CCU transplant	IP* IS*	Procedure	Revenue
214	CCU intermediate	IP* IS*	Procedure	Revenue
219	CCU other	IP* IS*	Procedure	Revenue
G0390	Trauma response team associated with hospital critical care service	IP* IS*	Procedure	HCPCS
G0509	Telehealth consultation, critical care, subsequent, physicians typically spend 50 minutes communicating with the patient and providers via telehealth	IP* IS*	Procedure	HCPCS
G0508	Telehealth consultation, critical care, initial, physicians typically spend 60 minutes communicating with the patient and providers via telehealth	IP* IS*	Procedure	HCPCS
0188T	Remote real-time interactive video-conferenced critical care, evaluation and	IP* IS*	Procedure	CPT
	management of the critically ill or critically injured patient; first 30-74 minutes			Category III
0189T	Remote real-time interactive video-conferenced critical care, evaluation and	IP* IS*	Procedure	CPT
	management of the critically ill or critically injured patient; each additional 30 minutes			Category III
	(List separately in addition to code for primary service)			
0581F	Patient transferred directly from anesthetizing location to critical care unit (Peri2)	IP* IS*	Procedure	CPT
	,			Category II
0582F	Patient not transferred directly from anesthetizing location to critical care unit (Peri2)	IP* IS*	Procedure	CPT
	<b>.</b>			Category II
99171	Critical Care, Subsequent Follow-up Visit; Brief Examination, Evaluation And/or	IP* IS*	Procedure	
99171	Treatment For Same Illness	11 13	riocedule	CF 1-4
99160	Critical Care, Initial, Including The Diagnostic And Therapeutic Services And Direction Of	ID* IC*	Procedure	CDT_/I
33100	Care Of The Critically III Or Multiply Injured Or Comatose Patient, Requiring The	11 15	riocedure	CI I-4
	Prolonged Presence Of The Physician; First Hour			
99162	Critical Care, Initial, Including The Diagnostic And Therapeutic Services And Direction Of	ID* IC*	Procedure	CDT 4
33102	Care Of The Critically III Or Multiply Injured Or Comatose Patient, Requiring The	11 13	riocedule	CF 1-4
	Prolonged Presence Of The Physician; Each Additional 30 Minutes			
00204		1D* 1C*	Dan and	CDT 4
99291	Critical care, evaluation and management of the critically ill or critically injured patient;	IP↑ IS*	Procedure	CPI-4
00202	first 30-74 minutes	10* 10*	D !	CDT 4
99292	Critical care, evaluation and management of the critically ill or critically injured patient;	IP™ IS*	Procedure	CP1-4
	each additional 30 minutes (List separately in addition to code for primary service)			



G0240 Critical care service delivered by a physician, face to face; during interfacility transport IP\* IS\* Procedure HCPCS of a critically ill or critically injured patient; first 30-74 minutes of active transport

1971   1972   1972   1972   1973   1974	Hierarchical severity level 2: Pneumonia				
Description of the foliation of the fo	B9729		IP* IS*	Diagnosis	ICD-10-CM
11289   Other viral pneumonia   IP* IS*   Diagnosis   ICD-10-CM   IP* IS*   ICD-10-CM   IP* IS*   ICD-10-CM   IP* IS*   ICD-10-CM   IP* IS*	J1281	Pneumonia due to SARS-associated coronavirus	IP* IS*	Diagnosis	ICD-10-CM
New Notes   Per Note	J1282	Pneumonia due to coronavirus disease 2019	IP* IS*	Diagnosis	ICD-10-CM
R0602 Shortness of breath or trouble breathing R0600 Dyspnea, unspecified R0600 Dyspnea, unspecified R0601 Orthopnea IP* IS* Diagnosis ICD-10-CM R0601 Orthopnea IP* IS* Diagnosis ICD-10-CM R0603 Acute respiratory distress IP* IS* Diagnosis ICD-10-CM R0603 Acute respiratory distress IP* IS* Diagnosis ICD-10-CM R0609 Other forms of dyspnea IP* IS* Diagnosis ICD-10-CM R0609 Other forms of dyspnea IP* IS* Diagnosis ICD-10-CM R0609 Other forms of dyspnea IP* IS* Diagnosis ICD-10-CM R0609 Other forms of dyspnea IP* IS* Diagnosis ICD-10-CM R0609 Other forms of dyspnea IP* IS* Diagnosis ICD-10-CM R0609 Other forms of dyspnea IP* IS* Diagnosis ICD-10-CM R0601 IP* IS* Diagnosis ICD-10-CM R0601 IP* IS* Diagnosis ICD-10-CM R0601 Asphyxia IP* IS* Diagnosis ICD-10-CM R0601 Asphyxia IP* IS* Diagnosis ICD-10-CM R0601 Acute respiratory failure, unspecified whether with hypoxia or hypercapnia IP* IS* Diagnosis ICD-10-CM IP* IS* Procedure Revenue ICD-10-PCS Opening IM* INF	J1289	Other viral pneumonia	IP* IS*	Diagnosis	ICD-10-CM
R0602   Shortness of breath or trouble breathing   IP* IS*   Diagnosis   ICD-10-CM   R0600   Dyspnea, unspecified   IP* IS*   Diagnosis   ICD-10-CM   R0601   Orthopnea   IP* IS*   Diagnosis   ICD-10-CM   R0603   Acute respiratory distress   IP* IS*   Diagnosis   ICD-10-CM   R0609   Other forms of dyspnea   IP* IS*   Diagnosis   ICD-10-CM   R0602   Wheezing   IP* IS*   Diagnosis   ICD-10-CM   IP* IS*	J129	Viral pneumonia, unspecified	IP* IS*	Diagnosis	ICD-10-CM
R0600Dyspnea, unspecifiedIP* IS*DiagnosisICD-10-CMR0601OrthopneaIP* IS*DiagnosisICD-10-CMR0603Acute respiratory distressIP* IS*DiagnosisICD-10-CMR0602WheezingIP* IS*DiagnosisICD-10-CMR061WheezingIP* IS*DiagnosisICD-10-CMR062WheezingHierarchical severity level 2: Hypoxia or hypoxemiaIP* IS*DiagnosisICD-10-CMR090Asphyxia and hypoxemiaIP* IS*DiagnosisICD-10-CMR0901AsphyxiaIP* IS*DiagnosisICD-10-CMJ9601Acute respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9601Acute respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9620Acute and chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9621Acute and chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9621Acute and chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9621Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9690Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9691Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9691Respiratory failure, unspecified whether					
R0601OrthopneaIP* IS*DiagnosisICD-10-CMR0603Acute respiratory distressIP* IS*DiagnosisICD-10-CMR0609Other forms of dyspneaIP* IS*DiagnosisICD-10-CMR062WheezingIP* IS*DiagnosisICD-10-CMHierarchical severity level 2: Hypoxia or hypoxemiaR090Asphyxia and hypoxemiaIP* IS*DiagnosisICD-10-CMR0901AsphyxiaIP* IS*DiagnosisICD-10-CMR0901AsphyxiaIP* IS*DiagnosisICD-10-CMJ9600Acute respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9601Acute and chronic respiratory failure unspecified with hypoxia/hypercapniaIP* IS*DiagnosisICD-10-CMJ9620Acute and chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9621Acute and chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9621Acute and chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9631Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9690Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9691Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*PiagnosisICD-10-CMJ9692Respiratory failure, unspecified whether with hypoxia or hypercapnia <td>R0602</td> <td></td> <td>IP* IS*</td> <td>Diagnosis</td> <td>ICD-10-CM</td>	R0602		IP* IS*	Diagnosis	ICD-10-CM
R0603Acute respiratory distressIP* IS*DiagnosisICD-10-CMR0609Other forms of dyspneaIP* IS*DiagnosisICD-10-CMR062WheezingIP* IS*DiagnosisICD-10-CMR090Asphyxia and hypoxemiaIP* IS*DiagnosisICD-10-CMR0901HypoxemiaIP* IS*DiagnosisICD-10-CMR0902HypoxemiaIP* IS*DiagnosisICD-10-CMR0903AsphyxiaIP* IS*DiagnosisICD-10-CMJ9601Acute respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9620Acute and chronic respiratory failure unspecified with hypoxia/hypercapniaIP* IS*DiagnosisICD-10-CMJ9621Acute and chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9631Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9690Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9691Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9690Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9691Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*ProcedureRevenue0277Medical/surgical supplies-oxygen-take homeIP* IS*ProcedureRevenue0412	R0600	Dyspnea, unspecified	IP* IS*	Diagnosis	ICD-10-CM
R0609   Other forms of dyspnea   IP* IS*   Diagnosis   ICD-10-CM	R0601	Orthopnea		Diagnosis	ICD-10-CM
New Part	R0603	Acute respiratory distress	IP* IS*	Diagnosis	ICD-10-CM
Hierarchical severity level 2: Hypoxia or hypoxemia	R0609	Other forms of dyspnea	IP* IS*	Diagnosis	ICD-10-CM
R090 Asphyxia and hypoxemia IP* IS* Diagnosis ICD-10-CM R0902 Hypoxemia IP* IS* Diagnosis ICD-10-CM R0901 Asphyxia IP* IS* Diagnosis ICD-10-CM IP* IS* Procedure Revenue IP* IS* Proce	R062	Wheezing	IP* IS*	Diagnosis	ICD-10-CM
R0902HypoxemiaIP* IS*DiagnosisICD-10-CMR0901AsphyxiaIP* IS*DiagnosisICD-10-CMJ9600Acute respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9601Acute respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9602Acute and chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9621Acute and chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9611Chronic respiratory failure with hypoxiaIP* IS*DiagnosisICD-10-CMJ9690Respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9610Chronic respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9610Chronic respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*DiagnosisICD-10-CMJ9610Chronic respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*PioagnosisICD-10-CMJ9610Chronic respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*PioagnosisICD-10-CMJ9610Chronic respiratory failure, unspecified whether with hypoxia or hypercapniaIP* IS*ProcedureRevenue0277Medical/surgical supplies-oxygen-take homeIP* IS*ProcedureRevenue0412Respiratory Services-Inhalation ServicesIP* IS*ProcedureRe					
R0901 Asphyxia IP* IS* Diagnosis ICD-10-CM J9600 Acute respiratory failure, unspecified whether with hypoxia or hypercapnia IP* IS* Diagnosis ICD-10-CM J9601 Acute respiratory failure with hypoxia IP* IS* Diagnosis ICD-10-CM J9620 Acute and chronic respiratory failure unspecified with hypoxia/hypercapnia IP* IS* Diagnosis ICD-10-CM J9621 Acute and chronic respiratory failure with hypoxia IP* IS* Diagnosis ICD-10-CM J9621 Acute and chronic respiratory failure with hypoxia IP* IS* Diagnosis ICD-10-CM J9631 Chronic respiratory failure with hypoxia IP* IS* Diagnosis ICD-10-CM J9631 Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia IP* IS* Diagnosis ICD-10-CM J9690 Respiratory failure, unspecified whether with hypoxia or hypercapnia IP* IS* Diagnosis ICD-10-CM J9691 Respiratory failure, unspecified whether with hypoxia or hypercapnia IP* IS* Diagnosis ICD-10-CM J9691 Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia IP* IS* Diagnosis ICD-10-CM J9691 Respiratory failure, unspecified whether with hypoxia or hypercapnia IP* IS* Diagnosis ICD-10-CM J9691 Respiratory failure, unspecified whether with hypoxia or hypercapnia IP* IS* Diagnosis ICD-10-CM J9691 Respiratory failure, unspecified whether with hypoxia or hypercapnia IP* IS* Procedure Revenue O412 Respiratory Services-Inhalation Services IP* IS* Procedure Revenue O500 Oxygen/Home Health-General Classification IP* IS* Procedure Revenue O500 Oxygen/Home Health-Stat/Equip/Under 1 Lpm IP* IS* Procedure Revenue O500 Oxygen/Home Health-Stat/Equip/Under 1 Lpm IP* IS* Procedure Revenue O500 Oxygen/Home Health-Stat/Equip/Dortable Add-On IP* IS* Procedure Revenue O500 Oxygen/Home Health-Stat/Equip/Dortable Add-On IP* IS* Procedure Revenue O500 Oxygen/Home Health-Stat/Equip/Dortable Add-On IP* IS* Procedure Revenue O500 Opening IP* IS* Procedure Revenue IP* IS* Procedure Revenue O500 Oxygen/Home Health-Stat/Equip/Dortable Add-On IP* IS* Procedure Revenue IP* IS* Procedure Revenue O500 Oxygen/Home Health-Stat/Equip/Do	R090	Asphyxia and hypoxemia	IP* IS*	Diagnosis	ICD-10-CM
J9600   Acute respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Diagnosis   ICD-10-CM   J9601   Acute respiratory failure with hypoxia   IP* IS*   Diagnosis   ICD-10-CM   J9620   Acute and chronic respiratory failure unspecified with hypoxia/hypercapnia   IP* IS*   Diagnosis   ICD-10-CM   J9621   Acute and chronic respiratory failure with hypoxia   IP* IS*   Diagnosis   ICD-10-CM   J9621   Chronic respiratory failure with hypoxia   IP* IS*   Diagnosis   ICD-10-CM   J9621   Chronic respiratory failure with hypoxia   IP* IS*   Diagnosis   ICD-10-CM   J9690   Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia   IP* IS*   Diagnosis   ICD-10-CM   J9690   Respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Diagnosis   ICD-10-CM   J9690   Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Diagnosis   ICD-10-CM   J9690   Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Diagnosis   ICD-10-CM   J9690   Respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Diagnosis   ICD-10-CM   J9690   Respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Diagnosis   ICD-10-CM   J9690   IP* IS*   Procedure   Revenue   J9690   Respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Procedure   Revenue   J9790   Respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Procedure   Revenue   J9790   Respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Procedure   Revenue   J9790   Respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Procedure   Revenue   J9790   Respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Procedure   Revenue   J9790   Respiratory failure, unspecified whether with hypoxia   IP* IS*   Procedure   Revenue   J9790   Respiratory failure, unspecified whether with hypoxi	R0902	Hypoxemia	IP* IS*	Diagnosis	ICD-10-CM
Jesus   Jesu	R0901	Asphyxia	IP* IS*	Diagnosis	ICD-10-CM
Acute and chronic respiratory failure unspecified with hypoxia/hypercapnia IP* IS* Diagnosis ICD-10-CM J9621 Acute and chronic respiratory failure with hypoxia IP* IS* Diagnosis ICD-10-CM J9611 Chronic respiratory failure with hypoxia IP* IS* Diagnosis ICD-10-CM IP* IS* Procedure Revenue IP* IS* Procedure ICD-10-PCS Depining IP* IS* Procedure ICD-10-PCS Depining IP* IS* Procedure ICD-10-PCS IP* IS* Procedure ICD-10-PCS IP* IS* Procedure ICD-10-PCS IP* IS* Procedure ICD-10-PCS IDP* IS* IDP* IS* Procedure ICD-10-PCS IDP* IS* IDP* IDP* IDP* IS* IDP* IDP* IDP* IDP* IDP* IDP* IDP* IDP	J9600	Acute respiratory failure, unspecified whether with hypoxia or hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
Acute and chronic respiratory failure with hypoxia IP* IS* Diagnosis ICD-10-CM IP* IS* Procedure Revenue IP* IS* Procedure ICD-10-PCS Opening IP* IS* Procedure ICD-10-PCS IP* IS* IP* IS* Procedure ICD-10-PCS IP* IS* IP* IS* Procedure ICD-10-PCS IP* IS* IP* I	J9601	Acute respiratory failure with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
Chronic respiratory failure with hypoxia   IP* IS*   Diagnosis   ICD-10-CM   IP* IS*   ICD-10-CM   ICD-10-CM   IP* IS*   ICD-10-CM   IP* IS*   ICD-10-CM   IP* IS*   ICD-10-CM   ICD-10-	J9620	Acute and chronic respiratory failure unspecified with hypoxia/hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
IP* IS*   ICD-10-CM	J9621	Acute and chronic respiratory failure with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia   IP* IS*   Diagnosis   ICD-10-CM	J9611	Chronic respiratory failure with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
J9691 Respiratory failure, unspecified with hypoxia   IP* IS*   Diagnosis   ICD-10-CM     J9610 Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia   IP* IS*   Diagnosis   ICD-10-CM			IP* IS*		ICD-10-CM
Hierarchical severity level 2: Supplemental oxygen    P* IS*   Diagnosis   ICD-10-CM	J9690	Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia		Diagnosis	
Hierarchical severity level 2: Supplemental oxygen  0277 Medical/surgical supplies-oxygen-take home  0412 Respiratory Services-Inhalation Services  0600 Oxygen/Home Health-General Classification  0601 Oxygen/Home Health-Stat Or Port Equip/Supply Or Count  0602 Oxygen/Home Health-Stat/Equip/Under 1 Lpm  0603 Oxygen/Home Health-Stat/Equip/Over 4 Lpm  0604 Oxygen/Home Health-Stat/Equip/Portable Add-On  3E097GC Introduction Of Other Therapeutic Substance Into Nose, Via Natural Or Artificial Opening  99503 Home visit for respiratory therapy care  Hierarchical severity level 2: Supplemental oxygen  IP* IS* Procedure Revenue  IP* IS* Procedure Revenue  IP* IS* Procedure Revenue  IP* IS* Procedure ICD-10-PCS  Opening  Procedure ICD-10-PCS  Opening	J9691	Respiratory failure, unspecified with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
0277Medical/surgical supplies-oxygen-take homeIP* IS*ProcedureRevenue0412Respiratory Services-Inhalation ServicesIP* IS*ProcedureRevenue0600Oxygen/Home Health-General ClassificationIP* IS*ProcedureRevenue0601Oxygen/Home Health-Stat Or Port Equip/Supply Or CountIP* IS*ProcedureRevenue0602Oxygen/Home Health-Stat/Equip/Under 1 LpmIP* IS*ProcedureRevenue0603Oxygen/Home Health-Stat/Equip/Over 4 LpmIP* IS*ProcedureRevenue0604Oxygen/Home Health-Stat/Equip/Portable Add-OnIP* IS*ProcedureRevenue3E097GCIntroduction Of Other Therapeutic Substance Into Nose, Via Natural Or Artificial OpeningIP* IS*ProcedureICD-10-PCS99503Home visit for respiratory therapy careIP* IS*ProcedureCPT-4A4608Transtracheal oxygen catheter, eachIP* IS*ProcedureHCPCS	J9610	Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
0412Respiratory Services-Inhalation ServicesIP* IS*Procedure Revenue0600Oxygen/Home Health-General ClassificationIP* IS*Procedure Revenue0601Oxygen/Home Health-Stat Or Port Equip/Supply Or CountIP* IS*Procedure Revenue0602Oxygen/Home Health-Stat/Equip/Under 1 LpmIP* IS*Procedure Revenue0603Oxygen/Home Health-Stat/Equip/Over 4 LpmIP* IS*Procedure Revenue0604Oxygen/Home Health-Stat/Equip/Portable Add-OnIP* IS*Procedure Revenue3E097GCIntroduction Of Other Therapeutic Substance Into Nose, Via Natural Or Artificial OpeningIP* IS*Procedure ICD-10-PCS99503Home visit for respiratory therapy careIP* IS*Procedure CPT-4A4608Transtracheal oxygen catheter, eachIP* IS*Procedure HCPCS		Hierarchical severity level 2: Supplemental oxygen			
O600 Oxygen/Home Health-General Classification Oxygen/Home Health-Stat Or Port Equip/Supply Or Count O601 Oxygen/Home Health-Stat/Equip/Under 1 Lpm O602 Oxygen/Home Health-Stat/Equip/Under 1 Lpm O603 Oxygen/Home Health-Stat/Equip/Over 4 Lpm O604 Oxygen/Home Health-Stat/Equip/Portable Add-On O605 Oxygen/Home Health-Stat/Equip/Portable Add-On O606 Oxygen/Home Health-Stat/Equip/Portable Add-On O607 Oxygen/Home Health-Stat/Equip/Portable Add-On O608 Oxygen/Home Health-Stat/Equip/Portable Add-On O609 Oxygen/Home Health-Stat/Equip/Over 4 Lpm O6000 Oxygen/Home Health-Stat/Equip/Over 4 Lpm O6000 Oxygen/Home Health-Stat/Equip/Over 4 Lpm Official IP* IS* Official Procedure Revenue O6000 Oxygen/Home Health-Stat/Equip/Over 4 Lpm Official IP* IS* Oxygen/Home Health-Stat/Equip/Over 4 Lpm Official IP* IS* Oxygen/Home Health-Stat/Equip/Over 4 Lpm Oxygen/Home Hea	0277	Medical/surgical supplies-oxygen-take home		Procedure	Revenue
Occupen/Home Health-Stat Or Port Equip/Supply Or Count Occupen/Home Health-Stat/Equip/Under 1 Lpm Occupen/Home Health-Stat/Equip/Over 4 Lpm Occupen/Home Health-Stat/Equip/Over 4 Lpm Occupen/Home Health-Stat/Equip/Portable Add-On Occupen/Home Health-Stat/Equip/Over 4 Lpm Occupen/Home Healt	0412	Respiratory Services-Inhalation Services	IP* IS*	Procedure	Revenue
Oxygen/Home Health-Stat/Equip/Under 1 Lpm Oxygen/Home Health-Stat/Equip/Over 4 Lpm Oxygen/Home Health-Stat/Equip/Portable Add-On IP* IS* Procedure Revenue IP* IS* Procedure ICD-10-PCS Opening  99503 Home visit for respiratory therapy care A4608 Transtracheal oxygen catheter, each IP* IS* Procedure CPT-4 IP* IS*	0600	Oxygen/Home Health-General Classification	IP* IS*	Procedure	Revenue
Occupancy Occupa	0601	Oxygen/Home Health-Stat Or Port Equip/Supply Or Count	IP* IS*	Procedure	Revenue
O604 Oxygen/Home Health-Stat/Equip/Portable Add-On IP* IS* Procedure Revenue 3E097GC Introduction Of Other Therapeutic Substance Into Nose, Via Natural Or Artificial Opening  99503 Home visit for respiratory therapy care IP* IS* Procedure CPT-4 A4608 Transtracheal oxygen catheter, each IP* IS* Procedure HCPCS	0602	Oxygen/Home Health-Stat/Equip/Under 1 Lpm	IP* IS*	Procedure	Revenue
3E097GC Introduction Of Other Therapeutic Substance Into Nose, Via Natural Or Artificial Opening  99503 Home visit for respiratory therapy care IP* IS* Procedure CPT-4  A4608 Transtracheal oxygen catheter, each IP* IS* Procedure HCPCS	0603	Oxygen/Home Health-Stat/Equip/Over 4 Lpm	IP* IS*	Procedure	Revenue
Opening 99503 Home visit for respiratory therapy care A4608 Transtracheal oxygen catheter, each  IP* IS* Procedure CPT-4 IP* IS* Procedure HCPCS	0604	Oxygen/Home Health-Stat/Equip/Portable Add-On	IP* IS*	Procedure	Revenue
99503 Home visit for respiratory therapy care  A4608 Transtracheal oxygen catheter, each  IP* IS* Procedure CPT-4  IP* IS* Procedure HCPCS	3E097GC	•	IP* IS*	Procedure	ICD-10-PCS
A4608 Transtracheal oxygen catheter, each IP* IS* Procedure HCPCS	99503		IP* IS*	Procedure	CPT-4
	A4615	Cannula, nasal	IP* IS*		



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Tubing (oxygen), per foot	IP* IS*	Procedure HCPCS
Face tent	IP* IS*	Procedure HCPCS
Variable concentration mask	IP* IS*	Procedure HCPCS
Stationary compressed gaseous oxygen system, rental; includes container, contents, regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing	IP* IS*	Procedure HCPCS
Stationary compressed gas system, purchase; includes regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing	IP* IS*	Procedure HCPCS
Portable gaseous oxygen system, purchase; includes regulator, flowmeter, humidifier, cannula or mask, and tubing	IP* IS*	Procedure HCPCS
Portable gaseous oxygen system, rental; includes portable container, regulator, flowmeter, humidifier, cannula or mask, and tubing	IP* IS*	Procedure HCPCS
Portable liquid oxygen system, rental; home liquefier used to fill portable liquid oxygen containers, includes portable containers, regulator, flowmeter, humidifier, cannula or mask and tubing, with o	IP* IS*	Procedure HCPCS
Portable liquid oxygen system, rental; includes portable container, supply reservoir, humidifier, flowmeter, refill adaptor, contents gauge, cannula or mask, and tubing	IP* IS*	Procedure HCPCS
Portable liquid oxygen system, purchase; includes portable container, supply reservoir, flowmeter, humidifier, contents gauge, cannula or mask, tubing and refill adaptor	IP* IS*	Procedure HCPCS
Stationary liquid oxygen system, rental; includes container, contents, regulator, flowmeter, humidifier, nebulizer, cannula or mask, & tubing	IP* IS*	Procedure HCPCS
Stationary liquid oxygen system, purchase; includes use of reservoir, contents indicator, regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing	IP* IS*	Procedure HCPCS
Stationary oxygen contents, gaseous, 1 month's supply = 1 unit	IP* IS*	Procedure HCPCS
Stationary oxygen contents, liquid, 1 month's supply = 1 unit	IP* IS*	Procedure HCPCS
Portable oxygen contents, gaseous, 1 month's supply = 1 unit	IP* IS*	Procedure HCPCS
Portable oxygen contents, liquid, 1 month's supply = 1 unit	IP* IS*	Procedure HCPCS
Portable oxygen contents, one month supply	IP* IS*	Procedure HCPCS
Oxygen tent, excluding croup or pediatric tents	IP* IS*	Procedure HCPCS
Humidifier, durable for extensive supplemental humidification during ippb treatments or oxygen delivery	IP* IS*	Procedure HCPCS
Humidifier, durable, glass or autoclavable plastic bottle type, for use with regulator or flowmeter	IP* IS*	Procedure HCPCS
Humidifier, durable for supplemental humidification during ippb treatment or oxygen delivery	IP* IS*	Procedure HCPCS
Oxygen accessory, flow regulator capable of positive inspiratory pressure	IP* IS*	Procedure HCPCS
Regulator	IP* IS*	Procedure HCPCS
Oxygen accessory, wheeled cart for portable cylinder or portable concentrator, any type, replacement only, each	IP* IS*	Procedure HCPCS
	Face tent  Variable concentration mask  Stationary compressed gaseous oxygen system, rental; includes container, contents, regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing  Stationary compressed gas system, purchase; includes regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing  Portable gaseous oxygen system, purchase; includes regulator, flowmeter, humidifier, cannula or mask, and tubing  Portable gaseous oxygen system, rental; includes portable container, regulator, flowmeter, humidifier, cannula or mask, and tubing  Portable liquid oxygen system, rental; home liquefier used to fill portable liquid oxygen containers, includes portable containers, regulator, flowmeter, humidifier, cannula or mask and tubing, with o  Portable liquid oxygen system, rental; includes portable container, supply reservoir, humidifier, flowmeter, refill adaptor, contents gauge, cannula or mask, and tubing  Portable liquid oxygen system, purchase; includes portable container, supply reservoir, flowmeter, humidifier, contents gauge, cannula or mask, tubing and refill adaptor  Stationary liquid oxygen system, purchase; includes container, contents, regulator, flowmeter, humidifier, nebulizer, cannula or mask, & tubing  Stationary liquid oxygen system, purchase; includes use of reservoir, contents indicator, regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing  Stationary oxygen contents, gaseous, 1 month's supply = 1 unit  Portable oxygen contents, gaseous, 1 month's supply = 1 unit  Portable oxygen contents, liquid, 1 month's supply = 1 unit  Portable oxygen contents, liquid, 1 month's supply = 1 unit  Portable oxygen contents, one month supply  Oxygen tent, excluding croup or pediatric tents  Humidifier, durable for extensive supplemental humidification during ippb treatment or oxygen delivery  Humidifier, durable for supplemental humidification during ippb treatment or oxygen delivery  Oxygen accessory, flow regulator capable of positive inspiratory pressure  Regulator	Tubing (oxygen), per foot



E1355	Stand/rack	IP* IS*	Procedure	HCPCS
E1356	Oxygen accessory, battery pack/cartridge for portable concentrator, any type,	IP* IS*	Procedure	
	replacement only, each			
E1357	Oxygen accessory, battery charger for portable concentrator, any type, replacement only, each	IP* IS*	Procedure	HCPCS
E1358	Oxygen accessory, dc power adapter for portable concentrator, any type, replacement only, each	IP* IS*	Procedure	HCPCS
E1390	Oxygen concentrator, single delivery port, capable of delivering 85 percent or greater oxygen concentration at the prescribed flow rate	IP* IS*	Procedure	HCPCS
E1391	Oxygen concentrator, dual delivery port, capable of delivering 85 percent or greater oxygen concentration at the prescribed flow rate, each	IP* IS*	Procedure	HCPCS
E1392	Portable oxygen concentrator, rental	IP* IS*	Procedure	HCPCS
E1405	Oxygen and water vapor enriching system with heated delivery	IP* IS*	Procedure	HCPCS
E1406	Oxygen and water vapor enriching system without heated delivery	IP* IS*	Procedure	HCPCS
K0738	Portable gaseous oxygen system, rental; home compressor used to fill portable oxygen cylinders; includes portable containers, regulator, flowmeter, humidifier, cannula or mask, and tubing	IP* IS*	Procedure	HCPCS
K0740	Repair or nonroutine service for oxygen equipment requiring the skill of a technician,	IP* IS*	Procedure	HCPCS
	labor component, per 15 minutes			
Z9981	Dependence on supplemental oxygen	IP* IS*	Diagnosis	ICD-10-CM
S8120	Oxygen contents, gaseous, 1 unit equals 1 cubic foot	IP* IS*	Procedure	HCPCS
S8121	Oxygen contents, liquid, 1 unit equals 1 pound	IP* IS*	Procedure	HCPCS
	Hierarchical severity level 2: High-flow oxygen or non-invasive mechanical	ventilati	ion	
5A09357	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Continuous Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS
5A09358	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Intermittent Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS
5A0935A	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, High Nasal Flow/Velocity	IP* IS*	Procedure	ICD-10-PCS
5A0935Z	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
5A09457	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Continuous Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS
5A09458	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Intermittent Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS
5A0945A	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, High Nasal Flow/Velocity	IP* IS*	Procedure	ICD-10-PCS
5A0945Z	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours,	IP* IS*		ICD-10-PCS
	Continuous Positive Airway Pressure			
5A09558	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, Intermittent Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS



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5A0955A	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, High Nasal Flow/Velocity	IP* IS*	Procedure	ICD-10-PCS
5A0955Z	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
94660	Continuous positive airway pressure ventilation (CPAP), initiation and management	IP* IS*	Procedure	CPT-4
A7027	Combination oral/nasal mask, used with continuous positive airway pressure device, each	IP* IS*	Procedure	HCPCS
A7045	Exhalation port with or without swivel used with accessories for positive airway devices, replacement only	IP* IS*	Procedure	HCPCS
A7046	Water chamber for humidifier, used with positive airway pressure device, replacement, each	IP* IS*	Procedure	HCPCS
E0466	Home ventilator, any type, used with noninvasive interface, (e.g., mask, chest shell)	IP* IS*	Procedure	HCPCS
E0467	Home ventilator, multi-function respiratory device, also performs any or all of the additional functions of oxygen concentration, drug nebulization, aspiration, and cough stimulation, includes all accessories, components and supplies for all functions	IP* IS*	Procedure	HCPCS
E0470	Respiratory assist device, bi-level pressure capability, without backup rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device)	IP* IS*	Procedure	HCPCS
E0471	Respiratory assist device, bi-level pressure capability, with back-up rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device)	IP* IS*	Procedure	HCPCS
E0472	Respiratory assist device, bi-level pressure capability, with backup rate feature, used with invasive interface, e.g., tracheostomy tube (intermittent assist device with continuous positive airway pressure device)	IP* IS*	Procedure	HCPCS
5A19054	Respiratory Ventilation, Single, Nonmechanical	IP* IS*	Procedure	ICD-10-PCS
99504	Home visit for respirator care	IP* IS*	Procedure	CPT-4
	Hierarchical severity level 1: COVID-19 Diagnosis			
U071	COVID-19	Any	Diagnosis	ICD-10-CM
B342	Coronavirus infection, unspecified	IP* IS*	_	ICD-10-CM
B9721	SARS-associated coronavirus as the cause of diseases classified elsewhere	IP* IS*	_	ICD-10-CM
B9729	Other coronavirus as the cause of diseases classified elsewhere	IP* IS*	Diagnosis	ICD-10-CM
J1281	Pneumonia due to SARS-associated coronavirus	IP* IS*	Diagnosis	ICD-10-CM