# 04-BREATHING & PSA

241216

## Breathing

### Allmänt

2024 [Oxygen-Haemoglobin Dissociation Curve • LITFL • CCC Ventilation](https://litfl.com/oxygen-haemoglobin-dissociation-curve/)

2021 [PulmCrit - 10 minute talk on hypoxemia physiology](https://emcrit.org/pulmcrit/hypoxemia-physiology/)

2021 [Pulse Oximetry: What are its limitations? How do we adapt?](https://www.emdocs.net/pulse-oximetry-what-are-its-limitations-how-do-we-adapt/)

2019 [Critical Care Fundamentals: Approach to Acute Respiratory Failure - REBEL EM](https://rebelem.com/critical-care-fundamentals-approach-to-acute-respiratory-failure/)

2017 Long [Capnography in the Emergency Department: A Review of Uses, Waveforms, and Limitations](https://pubmed.ncbi.nlm.nih.gov/28993038/)

2016 [Interpreting Waveform Capnography: Pearls and Pitfalls](https://www.emdocs.net/interpreting-waveform-capnography-pearls-and-pitfalls/)

2016 Driscoll [BTS guideline for oxygen use in adults in healthcare and emergency settings](https://thorax.bmj.com/content/72/Suppl_1/ii1)

2016 [Acute Respiratory Failure: NIPPV & POCUS](https://emergencymedicinecases.com/acute-respiratory-failure/)

2014 Bohadana [Fundamentals of lung auscultation - PubMed](https://pubmed.ncbi.nlm.nih.gov/24552321/)

2012 [Hypoxia and Hypoxemia: Mechanisms and Etiologies (ABG Interpretation - Lesson 18)](https://www.youtube.com/watch?v=Xxs1ivh9T64)

[Respiratorisk Svikt | InternetAnestesi](https://internetanestesi.se/courses/respiratorisk-svikt/)

### Diagnostik

2024 [ECG and POCUS for Dyspnea and Chest Pain](https://emergencymedicinecases.com/ecg-pocus-dyspnea-chest-pain/)

2023 Szabó [Point-of-care ultrasound improves clinical outcomes in patients with acute onset dyspnea: a systematic review and meta-analysis](https://pubmed.ncbi.nlm.nih.gov/36310302/)

2023 [Acute dyspnea in the emergency department: a clinical review](https://link.springer.com/article/10.1007/s11739-023-03322-8)

[Approach to the patient with dyspnea - UpToDate](https://www.uptodate.com/contents/approach-to-the-patient-with-dyspnea)

2023 Buda [Basics of Point-of-Care Lung Ultrasonography](https://pubmed.ncbi.nlm.nih.gov/37991857/)

2020 De Carvalho [Effect of chest ultrasound on diagnostic workup in elderly patients with acute respiratory failure in the emergency department: a prospective study](https://pubmed.ncbi.nlm.nih.gov/32568788/)

2016 [Approach to Tachypnea in the ED Setting](https://www.emdocs.net/approach-tachypnea-ed-setting/)

[Evaluation and management of the nonventilated, hospitalized adult patient with acute hypoxemia - UpToDate](https://www.uptodate.com/contents/evaluation-and-management-of-the-nonventilated-hospitalized-adult-patient-with-acute-hypoxemia)

Internetmedicin [Blodgas, tolkning vid andningsproblem](https://www.internetmedicin.se/akutsjukvard/blodgas-tolkning-vid-andningsproblem)

### NIV/ Mekanisk ventilation

2023 [Noninvasive ventilation in adults with acute respiratory failure: Practical aspects of initiation](https://www.uptodate.com/contents/noninvasive-ventilation-in-adults-with-acute-respiratory-failure-practical-aspects-of-initiation)

2022 Munshi [Noninvasive Respiratory Support for Adults with Acute Respiratory Failure](https://www.nejm.org/doi/full/10.1056/NEJMra2204556)

2019 [NIV behandling med HAMILTON C1 ventilator](https://www.youtube.com/watch?v=OfoA9-tQ5jQ&t=220s)

2019 [Critical Care Fundamentals: Basics of Mechanical Ventilation Part 1 - REBEL EM](https://rebelem.com/critical-care-fundamentals-basics-of-mechanical-ventilation-part-1/)

2019 [Critical Care Fundamentals: Basics of Mechanical Ventilation Part 2 - REBEL EM](https://rebelem.com/critical-care-fundamentals-basics-of-mechanical-ventilation-part-2/)

2018 Bello [Non-invasive ventilation in cardiogenic pulmonary edema - PubMed](https://pubmed.ncbi.nlm.nih.gov/30370282/)

2015 Frat [High-Flow Oxygen through Nasal Cannula in Acute Hypoxemic Respiratory Failure](https://www.nejm.org/doi/pdf/10.1056/NEJMoa1503326)

2013 Dwarakanath [Noninvasive ventilation in the management of acute hypercapnic respiratory failure](https://publications.ersnet.org/content/breathe/9/5/338)

[Noninvasive ventilation in adults with acute respiratory failure: Benefits and contraindications](https://www.uptodate.com/contents/noninvasive-ventilation-in-adults-with-acute-respiratory-failure-benefits-and-contraindications)

[Noninvasive ventilation in adults with acute respiratory failure: Practical aspects of initiation](https://www.uptodate.com/contents/noninvasive-ventilation-in-adults-with-acute-respiratory-failure-practical-aspects-of-initiation)

[Mechanical ventilation of adults in the emergency department - UpToDate](https://www.uptodate.com/contents/mechanical-ventilation-of-adults-in-the-emergency-department)

[BiPAP | ICUedu](https://www.icuedu.org/bipap)

[Vents 101 | ICUedu](https://www.icuedu.org/vents101)

[Vents 201 | ICUedu](https://www.icuedu.org/vents201)

### Astma och anafylaxi

2024 [The Crashing Asthmatic – Recognition and Management of Life Threatening Asthma](https://emergencymedicinecases.com/crashing-asthmatic-life-threatening-asthma/)

2024 [ED Adult Asthma Management - A 5 Step Approach | EM Cases](https://emergencymedicinecases.com/emergency-asthma-management-strategies/)

2023 [Crashing Anaphylaxis – AMAX4 Algorithm](https://emergencymedicinecases.com/crashing-anaphylaxis-amax4/)

2016 Lendau [Is ketamine a lifesaving agent in childhood acute severe asthma? - PubMed](https://pubmed.ncbi.nlm.nih.gov/26955277/)

Internetmedicin [Astma, akut – vuxna](https://www.internetmedicin.se/akutsjukvard/astma-akut-vuxna)

[Acute exacerbations of asthma in adults: Emergency department and inpatient management](https://www.uptodate.com/contents/acute-exacerbations-of-asthma-in-adults-emergency-department-and-inpatient-management)

### KOL-exacerbation

2022 [Oxygen and Carbon Dioxide Retention in COPD • LITFL • CCC Respiratory](https://litfl.com/oxygen-and-carbon-dioxide-retention-in-copd/)

2018 [EM@3AM: Acute COPD Exacerbation](https://www.emdocs.net/em3am-acute-copd-exacerbation/)

Internetmedicin [Kroniskt obstruktiv lungsjukdom (KOL), akut exacerbation](https://www.internetmedicin.se/akutsjukvard/kroniskt-obstruktiv-lungsjukdom-kol-akut-exacerbation)

[COPD exacerbations: Management - UpToDate](https://www.uptodate.com/contents/copd-exacerbations-management)

### ARDS

2022 Slobod [Pathophysiology and Clinical Meaning of Ventilation-Perfusion Mismatch in the Acute Respiratory Distress Syndrome - PMC](https://pmc.ncbi.nlm.nih.gov/articles/PMC9855693/)

2021 [emDOCs.net – Emergency Medicine EducationEM@3AM: Acute Respiratory Distress Syndrome](https://www.emdocs.net/em3am-acute-respiratory-distress-syndrome/)

### Hjärtsvikt

[2023 Focused Update of the 2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure](https://www.escardio.org/Guidelines/Clinical-Practice-Guidelines/Focused-Update-on-Heart-Failure-Guidelines)

[2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure](https://www.escardio.org/Guidelines/Clinical-Practice-Guidelines/Acute-and-Chronic-Heart-Failure)

2021 [Acute Heart Failure ED Management | Emergency Medicine Cases](https://emergencymedicinecases.com/acute-heart-failure-management-pocus-oxygenation-ppv-havoc-scape/)

[2021 IBCC Sympathetic Crashing Acute Pulmonary Edema](https://emcrit.org/ibcc/scape/)

2014 [Furosemide in the Treatment of Acute Pulmonary Edema](https://www.emdocs.net/furosemide-treatment-acute-pulmonary-edema/)

2010 [Episode 4: Acute Congestive Heart Failure](https://emergencymedicinecases.com/episode-4-acute-congestive-heart-failure/)

### Lungemboli

2021 Sanchez [Reduced-Dose Intravenous Thrombolysis for Acute Intermediate–High-risk Pulmonary Embolism: Rationale and Design of the Pulmonary Embolism International THrOmbolysis (PEITHO)-3 trial](https://pmc.ncbi.nlm.nih.gov/articles/PMC9197594/)

2021 [Pulmonary embolism: Why do we miss it, and how do we get better?](https://www.emdocs.net/pulmonary-embolism-why-do-we-miss-it-and-how-do-we-get-better/)

2019 [ESC Guidelines on Acute Pulmonary Embolism (Diagnosis and Management of)](https://www.escardio.org/Guidelines/Clinical-Practice-Guidelines/Acute-Pulmonary-Embolism-Diagnosis-and-Management-of)

2015 Van Marcke [CO2 measurement for the early differential diagnosis of pulmonary embolism-related shock at the emergency department](https://pubmed.ncbi.nlm.nih.gov/26744671/)

2014 Cherian [Release the Pressure | Annals of the American Thoracic Society](https://www.atsjournals.org/doi/10.1513/AnnalsATS.201312-441CC?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%200pubmed)

2012 [Pulmonary Embolism | Emergency Medicine Cases](https://emergencymedicinecases.com/episode-21-respiratory-emergencies-1-pulmonary-embolism/)

Internetmedicin [Lungemboli](https://www.internetmedicin.se/akutsjukvard/lungemboli)

### Infektioner

2017 [Tuberculosis: Presentation and ED Management](https://www.emdocs.net/tuberculosis-presentation-ed-management/)

2012 [COPD & Pneumonia | Emergency Medicine Cases](https://emergencymedicinecases.com/episode-24-copd-pneumonia/)

Internetmedicin [Pneumoni hos vuxna](https://www.internetmedicin.se/lungsjukdomar/pneumoni-hos-vuxna)

Internetmedicin [Influensa](https://www.internetmedicin.se/infektionssjukdomar/influensa)

Internetmedicin [Covid-19](https://www.internetmedicin.se/infektionssjukdomar/covid-19)

Internetmedicin [Pleuraempyem](https://www.internetmedicin.se/thoraxkirurgi/pleuraempyem)

Internetmedicin [Tuberkulos (tbc), diagnostik](https://www.internetmedicin.se/klinisk-mikrobiologi/tuberkulos-tbc-diagnostik)

Internetmedicin [Mykoplasmapneumoni](https://www.internetmedicin.se/infektionssjukdomar/mykoplasmapneumoni)

Internetmedicin [Svår akut respiratorisk sjukdom (SARS)](https://www.internetmedicin.se/infektionssjukdomar/svar-akut-respiratorisk-sjukdom-sars-sal)

### Övrigt

2023 [Hemoptysis ED Approach and Management | EM Cases](https://emergencymedicinecases.com/hemoptysis/)

2022 Olofsson [ABC om Pneumotorax på akuten](https://lakartidningen.se/klinik-och-vetenskap-1/medicinens-abc/2022/02/abc-om-pneumotorax-pa-akuten/)

Internetmedicin [Pneumothorax](https://www.internetmedicin.se/akutsjukvard/pneumothorax)

2020 [EM@3AM: Pneumothorax](https://www.emdocs.net/em3am-pneumothorax/)

2017 [Interstitial Lung Diseases: Evaluating for an Acute Exacerbation](https://www.emdocs.net/interstitial-lung-diseases-evaluating-acute-exacerbation/)

2014 [Ultrasound for Detection of Pneumothorax - REBEL EM](https://rebelem.com/ultrasound-detection-pneumothorax/)

Internetmedicin [Kolmonoxidförgiftning](https://www.internetmedicin.se/akutsjukvard/kolmonoxidforgiftning)

Internetmedicin [Rökgasförgiftning och exposition för andra giftiga gaser](https://www.internetmedicin.se/akutsjukvard/rokgasforgiftning-och-exposition-for-andra-giftiga-gaser)

Internetmedicin [Hosta](https://www.internetmedicin.se/infektionssjukdomar/hosta)

Internetmedicin [Pleurit (utredning av pleuravätska)](https://www.internetmedicin.se/lungsjukdomar/pleurit-utredning-av-pleuravatska)

## Procedursedering

[Procedural sedation in adults in the emergency department: General considerations, preparation, monitoring, and mitigating complications - UpToDate](https://www.uptodate.com/contents/procedural-sedation-in-adults-in-the-emergency-department-general-considerations-preparation-monitoring-and-mitigating-complications)

[Procedural sedation in adults in the emergency department: Medication selection, dosing, and discharge criteria - UpToDate](https://www.uptodate.com/contents/procedural-sedation-in-adults-in-the-emergency-department-medication-selection-dosing-and-discharge-criteria)

2024 Nguyen [Comparison of Nebulized Ketamine to Intravenous Subdissociative Dose Ketamine for Treating Acute Painful Conditions in the Emergency Department: A Prospective, Randomized, Double-Blind, Double-Dummy Controlled Trial](https://pubmed.ncbi.nlm.nih.gov/38703175/)

2024 Kampan [A non-inferiority randomized controlled trial comparing nebulized ketamine to intravenous morphine for older adults in the emergency department with acute musculoskeletal pain](https://pubmed.ncbi.nlm.nih.gov/38251742/)

2019 SWESEM [SWESEMs utbildningsutskott - Procedursedering och smärtstillning – anestesi och analgesi](https://slf.se/swesem/app/uploads/2019/03/procedursedering.pdf)

2019 Dryver [Akutläkardriven propofolsedering är säker vid elkonvertering](https://lakartidningen.se/klinik-och-vetenskap-1/artiklar-1/originalstudie/2019/01/akutlakardriven-propofolsedering-ar-saker-vid-elkonvertering/)

2019 [Peter Brindley interrogates Reuben Strayer - Is the Answer Really “Always Ketamine”?](https://www.youtube.com/watch?v=5bF1PQ6oKEI)

2018 [K is for Komfort Ketamine for Pain Ruben J Strayer, MD FRCP FAAEM](https://www.youtube.com/watch?v=clfYdXqXDU8)

2016 [10 Procedural Sedation Errors in the Emergency Department](https://www.emdocs.net/top-10-errors-of-procedural-sedation-in-the-emergency-department/)

2015 SWESEM [Procedursedering läkemedel 151016](https://slf.se/swesem/app/uploads/2019/03/procedursedering-lakemedel.pdf)

2015 [Ketamine: How to Use it Fearlessly For All its Indications by Reuben Strayer | SMACC](https://smacc.net.au/2015/12/ketamine-how-to-use-it-fearlessly-for-all-its-indications-by-reuben-strayer/)

### Barn

2020 [Ketamine Procedural Sedation for Children in the Emergency Department](https://rcem.ac.uk/wp-content/uploads/2022/02/Ketamine_Procedural_Sedation_-for_Children_in_EDs_Feb_2020.pdf)

2016 [Pediatric Procedural Sedation - Emergency Medicine Cases](https://emergencymedicinecases.com/pediatric-procedural-sedation/)

[Procedural sedation in children: Approach - UpToDate](https://www.uptodate.com/contents/procedural-sedation-in-children-approach)

[Procedural sedation in children: Selection of medications - UpToDate](https://www.uptodate.com/contents/procedural-sedation-in-children-selection-of-medications)

[Pediatric procedural sedation: Pharmacologic agents - UpToDate](https://www.uptodate.com/contents/pediatric-procedural-sedation-pharmacologic-agents)

### Komplikationer

2020 [Laryngospasm : Emergency Care BC](https://emergencycarebc.ca/clinical_resource/clinical-summary/laryngospasm/)

2020 Green [An international multidisciplinary consensus statement on fasting before procedural sedation in adults and children - PubMed](https://pubmed.ncbi.nlm.nih.gov/31792941/)

2016 Bellolio [Incidence of Adverse Events in Adults Undergoing Procedural Sedation in the Emergency Department](https://pubmed.ncbi.nlm.nih.gov/26801209/)

2016 [Managing laryngospasm in the emergency department - First10EM](https://first10em.com/laryngospasm/)

2015 [The best treatment for laryngospasm is simple, fast, and free | Ramblings of a doctor](https://statsdoc.wordpress.com/2015/02/18/the-best-treatment-for-laryngospasm-is-simple-fast-and-free/#more-76)