



Clinical literature

NAVA, NIV NAVA and Edi monitoring for neonatal and pediatric patients



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Year	Article title	Author	Patients	No	Modes	Link
2022	Outcomes of noninvasive neurally adjusted ventilatory assist and nasal continuous positive airway pressure in preterm infants: a systematic review and meta-analysis	Xu	Preterm neonatal	173	NIV NAVA	📄
2021	Neurally Adjusted Ventilator Assist in Infants With Acute Respiratory Failure: A Literature Scoping Review.	Harris	Neonatal and pediatric ARF	407	NAVA	📄
2021	Neurally-Adjusted Ventilatory Assist (NAVA) versus Pneumatically Synchronized Ventilation Modes in Children Admitted to PICU.	Sugunan	Pediatric	285	NAVA	📄
2020	Diaphragm-triggered non-invasive respiratory support in preterm infants.	Goel	Preterm neonatal	23	NIV NAVA	📄
2019	Clinical Application of Neurally Adjusted Ventilatory Assist in Neonates with Respiratory Distress: A Systematic Review.	Kadivar	Mixed neonatal RDS	186	NAVA NIV NAVA	📄
2017	Neurally adjusted ventilatory assist compared to other forms of triggered ventilation for neonatal respiratory support.	Rossor	Term & preterm neonatal	60	NAVA	📄
2016	Neurally-adjusted ventilatory assist (NAVA) in children: a systematic review.	Beck	Neonatal and pediatric	457	NAVA NIV NAVA	📄



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2022	Implementation of neurally adjusted ventilatory assist and high flow nasal cannula in very preterm infants in a tertiary level NICU.	Piatek	Preterm infants	193	NAVA NIV NAVA	📄
2021	Implementation of noninvasive neurally adjusted ventilatory assist in pediatric acute respiratory failure: a controlled before-after quality improvement study.	Chidini	Pediatric AHRF	64	NIV NAVA	📄
2021	Is noninvasive neurally adjusted ventilatory assistance (NIV-NAVA) an alternative to NCPAP in preventing extubation failure in preterm infants?	Yagui	Preterm neonatal	49	NIV NAVA	📄
2021	Neurally adjusted ventilatory assist (NAVA) in very preterm infants: A single tertiary neonatal unit's experience.	Shetty	Preterm neonates	54	NAVA NIV NAVA	📄
2021	Neurally Adjusted Ventilatory Assist in Newborns.	Beck	Neonatal	–	NAVA NIV NAVA	📄
2021	Proportional assist and neurally adjusted ventilation: Clinical knowledge and future trials in newborn infants.	Sindelar	Neonatal	–	NAVA NIV NAVA	📄
2021	A narrative review of advanced ventilator modes in the pediatric intensive care unit.	Miller	Pediatric	–	NAVA	📄
2019	Neurally adjusted ventilatory assist versus conventional ventilation in the pediatric population: Are there benefits?	Karikari	Pediatric	–	NAVA NIV NAVA	📄
2017	Neurally adjusted ventilatory assist in pediatrics: why, when, and how?	Andrade	Mixed pediatric	278	NAVA	📄
2016	Neurally adjusted ventilator assist in very low birthweight infants: Current status	Narchi	VLBW neonatal	41	NAVA NIV NAVA	📄
2016	Non-invasive ventilation with neurally adjusted ventilatory assist in newborns	Stein	Neonatal	–	NIV NAVA	📄
2013	Interest of Monitoring Diaphragmatic Electrical Activity in the Pediatric Intensive Care Unit.	Ducharme-Crevier	Pediatric	–	Edi mon	📄



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Year	Article title	Author	Patients	No	Modes	Link
2020	Comparison of extubation success using noninvasive positive pressure ventilation (NIPPV) versus noninvasive neurally adjusted ventilatory assist (NI-NAVA).	Makker	Preterm neonatal	30	NIV NAVA	📄
2019	Nasal continuous positive airway pressure (NCPAP) or noninvasive neurally adjusted ventilatory assist (NIV-NAVA) for preterm infants with respiratory distress after birth: A randomized controlled trial.	Yagui	Neonatal VLBW	123	NIV NAVA	📄
2019	NIV NAVA versus Nasal CPAP in Premature Infants: A Randomized Clinical Trial.	Kallio	Preterm neonatal	40	NIV NAVA	📄
2016	Early Noninvasive Neurally Adjusted Ventilatory Assist Versus Noninvasive Flow-Triggered Pressure Support Ventilation in Pediatric Acute Respiratory Failure: A Physiologic Randomized Controlled Trial.	Chidini	Pediatric ARF	18	NIV NAVA	📄
2016	Neurally adjusted ventilatory assist (NAVA) in preterm newborn infants with respiratory distress syndrome: A randomized controlled trial.	Kallio	Preterm neonatal RDS	60	NAVA	📄
2015	Neurally adjusted ventilatory assist (NAVA) in pediatric intensive care: A randomized controlled trial.	Kallio	Mixed pediatric	170	NAVA	📄
2014	Neurally adjusted ventilatory assist vs pressure support ventilation in infants recovering from severe acute respiratory distress syndrome: nested study.	Piastra	Mixed pediatric ARDS	30	NAVA	📄



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Year	Article title	Author	Patients	No	Modes	Link
2022	Reference Values For Diaphragm Electrical Activity (Edi) In Newborn Infants	Gurumahan	Neonatal	24	Edi mon	📄
2021	Neurally adjusted ventilatory assist in neonates with congenital diaphragmatic hernia	Kurland	Neonatal CDH	16	NAVA	📄
2021	Backup ventilation during neurally adjusted ventilatory assist in preterm infants.	Lee	Preterm neonatal	18	NAVA NIV NAVA	📄
2021	Non-invasive neurally adjusted ventilatory assist in preterm infants with RDS: effect of changing NAVA levels.	Lefevere	Preterm neonatal	12	Edi mon	📄
2020	Can visual inspection of the electrical activity of the diaphragm improve the detection of patient-ventilator asynchronies by pediatric critical care physicians?	Di Nardo	Mixed pediatric	10	Edi mon	📄
2019	Electrical Activity of the Diaphragm in a Small Cohort of Preterm Infants on Noninvasive Neurally Adjusted Ventilatory Assist and Continuous Positive Airway Pressure.	Gupta	Preterm neonatal	10	Edi mon	📄
2018	A Randomised Cross-Over Study Showed No Difference in Diaphragm Activity During Weaning From Respiratory Support.	Brenne	Preterm neonatal	21	Edi mon	📄
2018	Neural breathing patterns in preterm newborns supported with non-invasive neurally adjusted ventilatory assist.	Garcia-Munoz	Preterm neonatal	19	Edi mon NIV NAVA	📄
2018	Neural Breathing Pattern and Patient-Ventilator Interaction During Neurally Adjusted Ventilatory Assist and Conventional Ventilation in Newborns.	Mally	Preterm and term neonatal	23	Edi mon NIV NAVA	📄
2018	Rapid respiratory transition at birth as evaluated by electrical activity of the diaphragm in very preterm infants supported by nasal CPAP.	Oda	Preterm neonatal	8	Edi mon	📄
2018	Neurally adjusted ventilatory assist in extremely low-birthweight infants.	Oda	ELBW neonatal	8	NAVA	📄
2017	Neural breathing pattern in newborn infants pre- and post extubation.	Iyer	Preterm neonatal	25	Edi mon	📄
2017	Patient-ventilator asynchrony during conventional mechanical ventilation in children.	Mortamet	Mixed pediatric	52	Edi mon	📄
2016	Impact of feeding method on diaphragm electrical activity and central apnea in preterm infants (FEAdi study).	Ng	VLBW Neonatal	10	Edi mon	📄



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Year	Article title	Author	Patients	No	Modes	Link
2015	The effect of caffeine citrate on neural breathing pattern in preterm infants.	Parikka	Preterm neonatal	17	Edi mon	📄
2015	Electrical activity of the diaphragm during neurally adjusted ventilatory assist in pediatric patients.	Kallio	Mixed pediatric	81	Edi mon NAVA	📄
2015	Tonic diaphragmatic activity in critically ill children with and without ventilatory support.	Larouche	Mixed pediatric	55	Edi mon	📄
2015	High-flow nasal cannulae are associated with increased diaphragm activation compared with nasal continuous positive airway pressure in preterm infants.	Nasef	VLBW neonatal	10	Edi mon	📄
2015	The effect of caffeine citrate on neural breathing pattern in preterm infants.	Parikka	Preterm neonatal	17	Edi mon	📄
2015	Electrical activity of the diaphragm during neurally adjusted ventilatory assist in pediatric patients.	Kallio	Mixed pediatric	81	Edi mon NAVA	📄
2015	Tonic diaphragmatic activity in critically ill children with and without ventilatory support.	Larouche	Mixed pediatric	55	Edi mon	📄
2015	High-flow nasal cannulae are associated with increased diaphragm activation compared with nasal continuous positive airway pressure in preterm infants.	Nasef	VLBW neonatal	10	Edi mon	📄
2014	Evolution of inspiratory diaphragm activity in children over the course of the PICU stay.	Emeriaud	Mixed pediatric	55	Edi mon	📄
2013	Electrical activity of the diaphragm (Edi) values and Edi catheter placement in non-ventilated preterm neonates.	Stein	Preterm neonatal (non-ventilated)	17	Edi mon	📄
2012	Synchronized mechanical ventilation using electrical activity of the diaphragm in neonates.	Stein	Term neonatal	3	Edi mon	📄
2011	Characterization of Neural Breathing Pattern in Spontaneously Breathing Preterm Infants.	Beck	Preterm neonatal	10	Edi mon	📄
2009	Patient-Ventilator Interaction During Neurally Adjusted Ventilatory Assist in Low Birthweight Infants.	Beck	LBW neonatal	7	Edi mon NAVA NIV NAVA	📄
2006	Diaphragm electrical activity during expiration in mechanically ventilated infants.	Emeriaud	Ready-to-wean pediatric	16	Edi mon	📄



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Year	Article title	Author	Patients	No	Modes	Link
2021	Effect of electrical activity of the diaphragm waveform patterns on SpO2 for extremely preterm infants ventilated with neurally adjusted ventilatory assist	Araki	Preterm infants	(105h)	NAVA	📄
2020	Nasal continuous positive airway pressure versus noninvasive NAVA in preterm neonates with apnea of prematurity: a pilot study with a novel approach.	Firestone	Preterm neonatal	17	NIV NAVA	📄
2019	NAVA-synchronized compared to nonsynchronized noninvasive ventilation for apnea, bradycardia, and desaturation events in VLBW infants.	Tabacaru	VLBW neonatal	108	NIV NAVA	📄
2018	Neural Breathing Pattern and Patient-Ventilator Interaction During Neurally Adjusted Ventilatory Assist and Conventional Ventilation in Newborns.	Mally	Preterm neonatal	23	NAVA	📄
2018	Non-invasive neurally adjusted ventilatory assist versus nasal intermittent positive-pressure ventilation in preterm infants born before 30 weeks' gestation.	Yonehara	Preterm neonatal	34	NIV NAVA	📄
2017	Feasibility and physiological effects of noninvasive neurally adjusted ventilatory assist in preterm infants.	Gibu	Preterm neonatal	8	NIV NAVA	📄
2015	The effect of caffeine citrate on neural breathing pattern in preterm infants.	Parikka	Preterm neonatal	17	Edi mon	📄
2014	Neurally adjusted ventilatory assist in preterm neonates with acute respiratory failure.	Longhini	Preterm neonatal	12	NAVA	📄
2014	The effects of skin-to-skin care on the diaphragmatic electrical activity in preterm infants.	Soukka	Preterm neonatal	17	Edi mon	📄
2013	Neurally adjusted ventilatory assist (NAVA) mode as an adjunct diagnostic tool in congenital central hypoventilation syndrome.	Rahmani	CCHS preterm neonatal	1	Edi mon	📄
2013	Monitoring diaphragm electrical activity and the detection of congenital central hypoventilation syndrome in a newborn.	Szczapa	CCHS term neonate	1	Edi mon	📄



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Year	Article title	Author	Patients	No	Modes	Link
2021	Brain growth in extremely preterm infants before and after implementing NAVA ventilation.	Soukka	Preterm neonatal	136	NAVA	📄
2020	Application of Neurally Adjusted Ventilatory Assist in Premature Neonates Less Than 1,500 Grams With Established or Evolving Bronchopulmonary Dysplasia.	Rong	VLBW neonatal BPD	30	NAVA NIV NAVA	📄
2018	Comparison of neurally-adjusted ventilator assist in infants before and after extubation.	Longhini	Term neonatal	10	NAVA NIV NAVA	📄
2018	Neurally adjusted ventilatory assist in extremely low-birthweight infants.	Oda	ELWB neonatal	35	NAVA	📄
2017	Neurally adjusted ventilatory assist for infants under prolonged ventilation.	Lee	Preterm neonatal Prolonged MV	14	NAVA	📄
2016	Neurally adjusted ventilatory assist (NAVA) in preterm newborn infants with respiratory distress syndrome-a randomized controlled trial.	Kallio	Preterm neonatal RDS	60	NAVA	📄
2015	Effects of propofol on diaphragmatic electrical activity in mechanically ventilated pediatric patients.	Amigoni	Mixed pediatric	20	Edi mon NAVA	📄
2015	Electrical activity of the diaphragm during neurally adjusted ventilatory assist in pediatric patients.	Kallio	Mixed pediatric	81	Edi mon NAVA	📄
2015	Neurally adjusted ventilatory assist (NAVA) in pediatric intensive care--a randomized controlled trial.	Kallio	Mixed pediatric	170	NAVA	📄
2015	Neurally adjusted ventilatory assist in preterm neonates with acute respiratory failure.	Longhini	Preterm neonatal ARF	14	NAVA	📄
2014	Neurally adjusted ventilatory assist vs pressure support ventilation in infants recovering from severe acute respiratory distress syndrome: nested study.	Piastra	Pediatric ARDS	30	NAVA	📄
2013	Neurally adjusted ventilatory assist: assessing the comfort and feasibility of use in neonates and children.	Duyndham	Mixed neonatal & pediatric	21	NAVA	📄
2012	Asynchrony, neural drive, ventilatory variability and COMFORT: NAVA versus pressure support in pediatric patients. A non-randomized cross-over trial.	de la Oliva	Mixed pediatric	12	NAVA	📄



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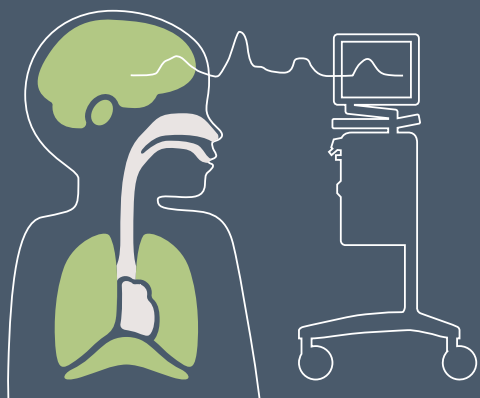
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Year	Article title	Author	Patients	No	Modes	Link
2022	Neurally Adjusted Ventilatory Assist vs. Conventional Mechanical Ventilation in Adults and Children With Acute Respiratory Failure.	Wu	Pediatric and adult	926	NIV NAVA NAVA	📄
2021	Can visual inspection of the electrical activity of the diaphragm improve the detection of patient-ventilator asynchronies by pediatric critical care physicians?	Di Nardo	Pediatric	10	Edi mon	📄
2021	Application of neurally adjusted ventilatory assist in ventilator weaning of infants ventilator weaning.	Xiao	Pediatric	25	NAVA	📄
2020	Work of Breathing in Premature Neonates: Noninvasive Neurally-Adjusted Ventilatory Assist versus Noninvasive Ventilation.	Matlock	Preterm neonates	15	NIV NAVA NAVA	📄
2020	Pressure Support Ventilation (PSV) versus Neurally Adjusted Ventilatory Assist (NAVA) in difficult to wean pediatric ARDS patients: a physiologic crossover study.	Spinazzola	Pediatric ARDS Difficult to wean	12	NAVA	📄
2018	Neural Breathing Pattern and Patient-Ventilator Interaction During Neurally Adjusted Ventilatory Assist and Conventional Ventilation in Newborns.	Mally	Preterm neonatal	23	NAVA	📄
2016	Early Noninvasive Neurally Adjusted Ventilatory Assist Versus Noninvasive Flow-Triggered Pressure Support Ventilation in Pediatric Acute Respiratory Failure: A Physiologic Randomized Controlled Trial.	Chidini	Pediatric ARF	18	NIV NAVA	📄
2015	Neurally adjusted ventilator assist (NAVA) reduces asynchrony during non-invasive ventilation for severe bronchiolitis.	Baudin	Pediatric RSV bronchiolitis	11	NIV NAVA	📄
2015	Neurally adjusted ventilatory assist (NAVA) allows patient-ventilator synchrony during pediatric noninvasive ventilation: a crossover physiological study.	Ducharme-Crevier	Mixed pediatric	13	NIV NAVA	📄
2015	Non-invasive neurally adjusted ventilatory assist in preterm infants: a randomised phase II crossover trial.	Lee	Preterm infants	15	NIV NAVA	📄
2015	Neurally adjusted ventilatory assist in preterm neonates with acute respiratory failure.	Longhini	Preterm neonatal ARF	14	NIV NAVA	📄
2013	Optimizing patient-ventilator synchrony during invasive ventilator assist in children and infants remains a difficult task	Vignaux	Mixed pediatric	19	NAVA	📄



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Year	Article title	Author	Patients	No	Modes	Link
2013	Patient-ventilator asynchrony during noninvasive pressure support ventilation and neurally adjusted ventilatory assist in infants and children.	Vignaux	Mixed pediatric	6	NIV NAVA	Link
2012	Neurally adjusted ventilatory assist improves patient – ventilator interaction in infants as compared with conventional ventilation.	Bordessoule	Mixed pediatric	10	NAVA	Link
2012	Asynchrony, neural drive, ventilatory variability and COMFORT: NAVA versus pressure support in pediatric patients. A non-randomized cross-over trial.	de la Oliva	Mixed pediatric	12	NAVA	Link
2011	Neurally triggered breaths reduce trigger delay and improve ventilator response times in ventilated infants with bronchiolitis.	Clement	Pediatric bronchiolitis	23	NAVA	Link
2011	Comparison of pressure-, flow-, and NAVA-triggering in pediatric and neonatal ventilatory care.	Ålander	Mixed pediatric	18	NAVA	Link



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2021	Neurally adjusted ventilatory assist in ventilated very preterm infants: A crossover study	Oda	Preterm infants	19	NAVA	📄
2021	The using of a neurally adjusted ventilatory assist in premature infants	Anuriev	Preterm infants	46	NAVA	📄
2020	Proportional Assist Ventilation (PAV) Versus Neurally Adjusted Ventilator Assist (NAVA): Effect on Oxygenation in Infants With Evolving or Established Bronchopulmonary Dysplasia.	Hunt	Preterm neonatal BPD	18	NAVA	📄
2020	Pressure Support Ventilation (PSV) versus Neurally Adjusted Ventilatory Assist (NAVA) in difficult to wean pediatric ARDS patients: a physiologic crossover study.	Spinazzola	Pediatric ARDS Difficult to wean	12	NAVA	📄
2019	When the Children Control the Ventilator, They Adopt an Appropriate Ventilation with a Strict Control of Blood pH	Veillet	Pediatric	52	NAVA	📄
2019	NAVA-synchronized compared to nonsynchronized noninvasive ventilation for apnea, bradycardia, and desaturation events in VLBW infants.	Tabacuru	VLBW neonatal	108	NIV NAVA	📄
2018	Neurally Adjusted Ventilatory Assist After Pediatric Cardiac Surgery: Clinical Experience and Impact on Ventilation Pressures.	Crulli	Post-op cardiac pediatric	28	NAVA NIV NAVA	📄
2017	Feasibility and physiological effects of noninvasive neurally adjusted ventilatory assist in preterm infants.	Gibu	Preterm neonatal	11	NAVA	📄
2017	Crossover study of assist control ventilation and neurally adjusted ventilatory assist.	Shetty	Preterm neonatal BPD / ARDS	9	NAVA	📄
2016	Early Noninvasive Neurally Adjusted Ventilatory Assist Versus Noninvasive Flow-Triggered Pressure Support Ventilation in Pediatric Acute Respiratory Failure.	Chidini	Pediatric ARF	18	NAVA	📄
2016	Neurally Adjusted Ventilatory Assist in Preterm Infants With Established or Evolving Bronchopulmonary Dysplasia on High-Intensity Mechanical Ventilatory Support.	Jung	Preterm neonatal BPD / RDS	29	NAVA	📄
2016	Neurally adjusted ventilatory assist (NAVA) in preterm newborn infants with respiratory distress syndrome-a randomized controlled trial.	Kallio	Preterm neonatal RDS	60	NAVA	📄



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2016	Physiological effects of invasive ventilation with neurally adjusted ventilatory assist (NAVA) in a crossover study.	Liet	Post-op cardiac pediatric	6	NAVA	📄
2016	Mechanical Ventilation After Bidirectional Superior Cavopulmonary Anastomosis for Single-Ventricle Physiology: A Comparison of PSV and NAVA.	Zhu	Post-op BCPA pediatric	21	NAVA	📄
2015	Neurally adjusted ventilator assist (NAVA) reduces asynchrony during non-invasive ventilation for severe bronchiolitis.	Baudin	Post-op BCPA pediatric	11	NIV NAVA	📄
2015	Neurally adjusted ventilatory assist (NAVA) in pediatric intensive care – a randomized controlled trial.	Kallio	Mixed pediatric	170	NAVA	📄
2014	Neurally adjusted ventilatory assist vs pressure support ventilation in infants recovering from severe acute respiratory distress syndrome: nested study.	Piastra	Mixed pediatric ARDS	30	NAVA	📄
2013	Neurally adjusted ventilatory assist in weaning of neonates affected by congenital diaphragmatic hernia.	Gentili	Neonatal CDH	12	NAVA	📄
2012	Neurally adjusted ventilatory assist in neonates weighing <1500 grams: a retrospective analysis.	Stein	Neonatal CDH	52	NAVA	📄
2012	Randomized crossover study of neurally adjusted ventilatory assist in preterm infants.	Lee	Preterm neonatal	26	NAVA	📄
2012	Synchronized mechanical ventilation using electrical activity of the diaphragm in neonates.	Stein	Preterm neonatal	5	NAVA	📄
2011	Neurally adjusted ventilatory assist mode used in congenital diaphragmatic hernia.	Durrani	Term neonatal	1	NAVA	📄
2011	Respiratory support by neurally adjusted ventilatory assist (NAVA) in severe RSV-related bronchiolitis: a case series report.	Liet	Pediatric RSV bronchiolitis	3	NAVA	📄
2011	Comparison of pressure-, flow-, and NAVA-triggering in pediatric and neonatal ventilatory care.	Ålander	Mixed pediatric	18	NAVA	📄
2010	A prospective crossover comparison of neurally adjusted ventilatory assist and pressure-support ventilation in a pediatric and neonatal intensive care unit population.	Breatnach	Mixed neonatal & pediatric	16	NAVA	📄



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2021	Application of neurally adjusted ventilatory assist in ventilator weaning of infants ventilator weaning	Xiao	Pediatric	25	NAVA	📄
2020	Pressure Support Ventilation (PSV) versus Neurally Adjusted Ventilatory Assist (NAVA) in difficult to wean pediatric ARDS patients: a physiologic crossover study.	Spinazzola	Pediatric ARDS Difficult to wean	12	NAVA	📄
2018	Neurally Adjusted Ventilatory Assist After Pediatric Cardiac Surgery: Clinical Experience and Impact on Ventilation Pressures.	Crulli	Post-op cardiac pediatric	28	NAVA NIV NAVA	📄
2018	Neurally adjusted ventilatory assist in extremely low-birthweight infants.	Oda	ELWB neonatal	35	NAVA	📄
2018	The impact of neurally adjusted ventilatory assist mode on respiratory severity score and energy expenditure in infants: a randomized crossover trial.	Rosterman	Mixed neonatal	24	NAVA	📄
2017	Feasibility and physiological effects of noninvasive neurally adjusted ventilatory assist in preterm infants.	Gibu	Preterm neonatal	11	NIV NAVA	📄
2017	Crossover study of assist control ventilation and neurally adjusted ventilatory assist.	Shetty	Preterm neonatal BPD / ARDS	9	NAVA	📄
2016	Early Noninvasive Neurally Adjusted Ventilatory Assist Versus Noninvasive Flow-Triggered Pressure Support Ventilation in Pediatric Acute Respiratory Failure.	Chidini	Pediatric ARF	18	NIV NAVA	📄
2016	Neurally adjusted ventilatory assist (NAVA) in preterm newborn infants with respiratory distress syndrome: A randomized controlled trial.	Kallio	Preterm neonatal RDS	60	NAVA	📄
2016	Neurally Adjusted Ventilatory Assist in Preterm Infants With Established or Evolving Bronchopulmonary Dysplasia on High-Intensity Mechanical Ventilatory Support.	Jung	Preterm neonatal BPD / RDS	29	NAVA	📄
2016	Physiological effects of invasive ventilation with neurally adjusted ventilatory assist (NAVA) in a crossover study.	Liet	Post-op cardiac pediatric	6	NAVA	📄
2016	Comparing changing neurally adjusted ventilatory assist (NAVA) levels in intubated and recently extubated neonates.	LoVerde	Preterm neonatal	15	NAVA NIV NAVA	📄
2016	Mechanical Ventilation After Bidirectional Superior Cavopulmonary Anastomosis for Single-Ventricle Physiology: A Comparison of PSV and NAVA.	Zhu	Post-op BCPA pediatric	21	NAVA	📄



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2015	Non-invasive neurally adjusted ventilatory assist in preterm infants: a randomised phase II crossover trial.	Lee	Preterm infants	15	NIV NAVA	Link
2015	Effect of changing NAVA levels on peak inspiratory pressures and electrical activity of the diaphragm in premature neonates.	Firestone	NICU Preterm neonates	21	NAVA NIV NAVA	Link
2015	Neurally adjusted ventilatory assist (NAVA) in pediatric intensive care--a randomized controlled trial	Kallio	Mixed pediatric	170	NAVA	Link
2015	Neurally adjusted ventilatory assist in preterm neonates with acute respiratory failure.	Longhini	Preterm neonatal ARF	14	NAVA	Link
2014	Neurally adjusted ventilatory assist vs pressure support ventilation in infants recovering from severe acute respiratory distress syndrome: nested study.	Piastra	Pediatric ARDS	30	NAVA	Link
2013	Neurally adjusted ventilatory assist: assessing the comfort and feasibility of use in neonates and children.	Duyndam	Mixed neonatal & pediatric	21	NAVA	Link
2013	Neurally adjusted ventilatory assist in weaning of neonates affected by congenital diaphragmatic hernia.	Gentili	Neonatal CDH	12	NAVA	Link
2013	Prospective crossover comparison between NAVA and pressure control ventilation in premature neonates less than 1500 grams.	Stein	VLBW neonatal	5	NAVA	Link
2012	Randomized crossover study of neurally adjusted ventilatory assist in preterm infants.	Lee	Preterm neonatal	26	NAVA	Link
2012	Neurally adjusted ventilatory assist in neonates weighing <1500 grams: A retrospective analysis.	Stein	Neonatal VLBW	52	NAVA	Link
2011	Respiratory support by neurally adjusted ventilatory assist (NAVA) in severe RSV-related bronchiolitis: a case series report.	Liet	Pediatric RSV bronchiolitis	3	NAVA	Link
2010	Neurally adjusted ventilatory assist in children: An observational study.	Bengtsson	Mixed neonatal & pediatric	21	NAVA	Link
2010	A prospective crossover comparison of neurally adjusted ventilatory assist and pressure-support ventilation in a pediatric and neonatal intensive care unit population.	Breatnach	Mixed neonatal & pediatric	16	NAVA	Link

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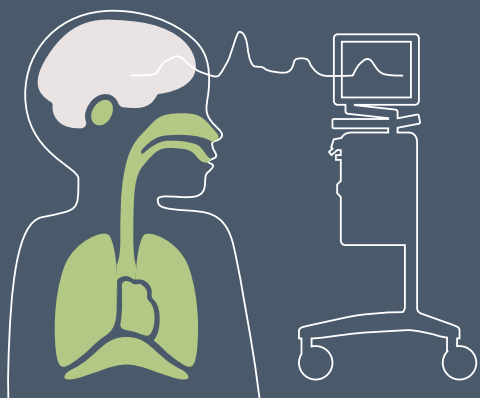
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Year	Article title	Author	Patients	No	Modes	Link
2022	Comparing ventilation modes by electrical impedance segmentography in ventilated children	Brandt	Pediatric	8	NAVA	Link
2021	Cardiorespiratory effects of NIV-NAVA, NIPPV, and NCPAP shortly after extubation in extremely preterm infants: A randomized crossover trial	Latremouille	Preterm neonatal	23	NIV NAVA	Link
2020	Effects of NAVA Compared to SIMV Ventilation on Cardiac Function in Preterm Neonates.	Hovespian	Preterm neonatal	14	NAVA	Link
2019	Utilization of Neurally Adjusted Ventilatory Assist (NAVA) Mode in Infants and Children Undergoing Congenital Heart Surgery: A Retrospective Review.	Baez-Hernandez	CDH post-op pediatric	81	NAVA NIV NAVA	Link
2019	Neurally Adjusted Ventilatory Assist Mode of Mechanical Ventilation in Neonates with Hypoxic-Ischemic Encephalopathy.	Surkov	Term neonatal Acute HIE	16	NAVA	Link
2019	NAVA-synchronized compared to nonsynchronized noninvasive ventilation for apnea, bradycardia, and desaturation events in VLBW infants.	Tabacuru	VLBW neonatal	108	NIV NAVA	Link
2016	Physiological effects of invasive ventilation with neurally adjusted ventilatory assist (NAVA) in a crossover study.	Liet	Post-op cardiac pediatric	6	NAVA	Link
2016	Mechanical Ventilation After Bidirectional Superior Cavopulmonary Anastomosis for Single-Ventricle Physiology.	Zhu	Post-op BCPA pediatric	21	NAVA	Link
2015	Effect of changing NAVA levels on peak inspiratory pressures and electrical activity of the diaphragm in premature neonates.	Firestone	Preterm neonates	21	NAVA NIV NAVA	Link
2014	Impact of Ventilatory Modes on the Breathing Variability in Mechanically Ventilated Infants.	Baudin	Mixed pediatric	11	NAVA	Link
2014	Neurally adjusted ventilatory assist vs pressure support ventilation in infants recovering from severe acute respiratory distress syndrome: Nested study.	Piastra	Pediatric ARDS	30	NAVA	Link
2012	Neurally adjusted ventilatory assist improves patient-ventilator interaction in infants as compared with conventional ventilation.	Bordessoule	Mixed pediatric	10	NAVA	Link
2012	Asynchrony, neural drive, ventilatory variability and COMFORT: NAVA versus pressure support in pediatric patients. A non-randomized cross-over trial.	de la Oliva	Mixed pediatric	12	NAVA	Link
2009	Application of neurally adjusted ventilatory assist in infants who underwent cardiac surgery for congenital heart disease.	Zhu	Post-op CDH neonatal	21	NAVA	Link



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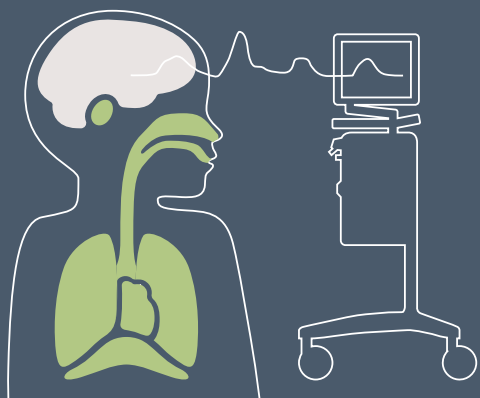
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Year	Article title	Author	Patients	No	Modes	Link
2022	Respiratory and Gastrointestinal Management of an Infant with a Birth Weight of 258 Grams	Itoshima	Preterm neonate	1	NIV NAVA	📄
2021	Implementation of noninvasive neurally adjusted ventilatory assist in pediatric acute respiratory failure: a controlled before-after quality improvement study	Chidini	Pediatric AHRF	64	NIV NAVA	📄
2021	Is noninvasive neurally adjusted ventilatory assistance (NIV-NAVA) an alternative to NCPAP in preventing extubation failure in preterm infants?	Yagui	Preterm neonatal	49	NIV NAVA	📄
2020	Comparison of extubation success using noninvasive positive pressure ventilation (NIPPV) versus noninvasive neurally adjusted ventilatory assist (NI-NAVA).	Makker	Preterm neonates	30	NIV NAVA	📄
2020	Neurally-Adjusted Ventilatory Assist Can Facilitate Extubation in Neonates With Congenital Diaphragmatic Hernia.	Meinen	Neonatal CDH	10	NAVA NIV NAVA	📄
2019	Neurally adjusted ventilatory assist mitigates ventilator-induced diaphragm injury in rabbits.	Shimatani	Rabbits 2.4–2.9 kg	(20)	NAVA	📄
2019	Feasibility of Non-invasive Neurally Adjusted Ventilator Assist After Congenital Diaphragmatic Hernia Repair.	Amin	CDH post-op neonatal	7	NIV NAVA	📄
2019	Neurally adjusted ventilatory assist decreases work of breathing during non-invasive ventilation in infants with severe bronchiolitis.	Baudin	Neonatal Bronchiolitis	7	NIV NAVA	📄
2019	Weaning in Neurally Adjusted Ventilatory Assist (NAVA): A prospective interventional study in neonates.	Cosi	Mixed neonatal	34	NAVA	📄
2019	Comparison of NIV-NAVA and NCPAP in facilitating extubation for very preterm infants.	Lee	Preterm neonatal	30	NIV NAVA	📄
2019	Nasal continuous positive airway pressure (NCPAP) or noninvasive neurally adjusted ventilatory assist (NIV-NAVA) for preterm infants with respiratory distress after birth: A randomized controlled trial.	Yagui	Neonatal VLBW	123	NIV NAVA	📄
2018	Predicting extubation readiness by monitoring the electrical activity of the diaphragm after prolonged mechanical ventilation: a pediatric case report.	Naito	Pediatric Prolonged MV	1	NAVA	📄
2018	Neurally adjusted ventilatory assist can be used to wean infants with congenital diaphragmatic hernias off respiratory support.	Oda	Neonatal CDH	14	NAVA Edi mon	📄



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Year	Article title	Author	Patients	No	Modes	Link
2018	Does Diaphragmatic Electrical Activity in Preterm Infants Predict Extubation Success?	Singh	Preterm neonatal RDS	21	Edi mon	📄
2018	Non-invasive neurally adjusted ventilatory assist versus nasal intermittent positive-pressure ventilation in preterm infants born before 30 weeks' gestation.	Yonehara	Preterm neonatal	34	NIV NAVA	📄
2017	Neural breathing pattern in newborn infants pre- and postextubation.	Iyer	Preterm neonatal	25	Edi mon	📄
2017	Patient-ventilator asynchrony during conventional mechanical ventilation in children.	Mortamet	Mixed pediatric	52	Edi mon	📄
2017	Noninvasive Neurally Adjusted Ventilatory Assist in Premature Infants Postextubation.	Colaizy	VLBW neonatal	24	NIV NAVA	📄
2016	Neurally adjusted ventilatory assist (NAVA) in preterm newborn infants with respiratory distress syndrome-a randomized controlled trial.	Kallio	Preterm neonatal RDS	60	NAVA	📄
2015	Feasibility Study on Neurally Adjusted Ventilatory Assist in Noninvasive Ventilation After Cardiac Surgery in Infants.	Houtekie	Post-op cardiac pediatric	10	NIV NAVA	📄
2015	The Effect of High Flow Nasal Cannula Therapy on the Work of Breathing in Infants with Bronchiolitis.	Pham	Neonatal CHD /Bronchiolitis	28	Edi mon	📄
2014	Neurally adjusted ventilatory assist vs pressure support ventilation in infants recovering from severe acute respiratory distress syndrome: Nested study.	Piastra	Pediatric ARDS	30	NAVA	📄
2013	Neurally adjusted ventilatory assist in weaning of neonates affected by congenital diaphragmatic hernia.	Gentili	Neonatal CDH	12	NAVA	📄
2012	Mechanisms of ventilator dependence in children with neuromuscular and respiratory control disorders identified by monitoring diaphragm electrical activity.	Fine-Goulden	Pediatric NMD	6	Edi mon	📄
2011	Electrical activity of the diaphragm during extubation readiness testing in critically ill children.	Wolf	Mixed pediatric (during ERT)	20	Edi mon	📄



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Year	Article title	Author	Patients	No	Modes	Link
2021	Neurally Adjusted Ventilatory Assist in Very Prematurely Born Infants with Evolving/Established Bronchopulmonary Dysplasia.	Shetty	Preterm neonatal BPD	54	NAVA NIV NAVA	Link
2021	Non-invasive Neurally Adjusted Ventilatory Assist (NAVA) in the pediatric ICU: assessing optimal Edi compliance	Lamsal	Pediatric bronchiolitis	63	NIV NAVA	Link
2020	Proportional Assist Ventilation (PAV) Versus Neurally Adjusted Ventilator Assist (NAVA): Effect on Oxygenation in Infants With Evolving or Established Bronchopulmonary Dysplasia.	Hunt	Preterm neonatal BPD	18	NAVA	Link
2020	Multicenter Experience with Neurally Adjusted Ventilatory Assist in Infants with Severe Bronchopulmonary Dysplasia.	McKinney	Neonatal BPD	112	NAVA	Link
2020	Application of Neurally Adjusted Ventilatory Assist in Premature Neonates Less Than 1,500 Grams With Established or Evolving Bronchopulmonary Dysplasia.	Rong	VLBW neonatal BPD	30	NAVA NIV NAVA	Link
2017	Crossover study of assist control ventilation and neurally adjusted ventilatory assist.	Shetty	Preterm neonatal BPD / ARDS	9	NAVA	Link
2016	Neurally Adjusted Ventilatory Assist in Preterm Infants With Established or Evolving Bronchopulmonary Dysplasia on High-Intensity Mechanical Ventilatory Support.	Jung	Preterm neonatal BPD / RDS	29	NAVA	Link



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Year	Article title	Author	Patients	No	Modes	Link
2022	Diaphragmatic Electrical Activity in Preterm Infants on Non-Invasive High Frequency Oscillatory Ventilation (DEAP-NHFO Study)	Wong	Preterm neonatal	20	Edi mon	📄
2022	Spontaneous breathing during high-frequency oscillation revealed by diaphragm electrical activity	Takahashi	Preterm neonatal	2	Edi mon	📄
2022	Improved nutritional outcomes with neurally adjusted ventilatory assist (NAVA) in premature infants: a single tertiary neonatal unit's experience	Benn	Preterm neonatal	54	NAVA NIV NAVA	📄
2022	Effect of doxapram on the electrical activity of the diaphragm waveform pattern of preterm infants	Araki	Preterm neonatal	10	Edi mon NAVA	📄
2021	Parent-infant skin-to-skin contact reduces the electrical activity of the diaphragm and stabilizes respiratory function in preterm infants	Lee	Preterm neonatal	17	Edi mon	📄
2021	Effects of skin-to-skin care on electrical activity of the diaphragm in preterm infants during neurally adjusted ventilatory assist	Kato	Preterm neonatal	14	Edi mon	📄
2021	Effects of heliox and non-invasive neurally adjusted ventilatory assist (NIV-NAVA) in preterm infants	Neumann-Klimasinska	Neonatal preterm	23	Edi mon NIV NAVA	📄
2020	Effective neurally-adjusted ventilatory assist weaning off mechanical ventilation in separated conjoined thoraco-omphalopagus twins with sternal MEDPOR implant patch	Rossetti	Conjoined twins	1	NAVA	📄
2019	Neurally adjusted ventilatory assist for children on veno-venous ECMO.	Assy	Pediatric ARF/Trauma	6	NAVA Edi mon	📄
2019	Physiological Effect of Prone Position in Children with Severe Bronchiolitis: A Randomized Cross-Over Study (BRONCHIO-DV).	Baudin	Preterm and term neonatal	14	Edi mon	📄
2019	The evaluation of the efficacy and safety of non-invasive neurally adjusted ventilatory assist in combination with INTubation-SURfactant-Extubation technique for infants at 28 to 33 weeks of gestation with respiratory distress syndrome.	Miyahara	Preterm neonatal	15	NIV NAVA	📄



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Year	Article title	Author	Patients	No	Modes	Link
2017	Combined use of Neurally Adjusted Ventilatory Assist (NAVA) and Vertical Expandable Prosthetic Titanium Rib (VEPTR) in a patient with Spondylocostal dysostosis and associated bronchomalacia.	Pons-Odena	Pediatric JLS	1	NAVA	Link
2015	The effect of caffeine citrate on neural breathing pattern in preterm infants.	Parikka	Preterm neonatal	17	Edi mon	Link
2014	The effects of skin-to-skin care on the diaphragmatic electrical activity in preterm infants.	Soukka	Preterm neonatal	17	Edi mon	Link
2010	Neurally adjusted ventilatory assist and lung transplant in a child: A case report.	Vitale	Pediatric CF	1	NAVA	Link
2010	Effect of prone or spine position on mechanically ventilated neonates after cardiac surgery with acute lung injury.	Zhu	Post-op cardiac neonatal	15	NAVA	Link



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Abbreviation	Meaning
ARDS	Acute respiratory distress syndrome
BCPA	Bidirectional superior cavopulmonary anastomosis
BPD	Bronchopulmonary dysplasia
CHS	Central hypoventilation syndrome
CDH	Congenital heart disease
CF	Cystic fibrosis
Edi	Electrical activity of the diaphragm
Edi mon	Edi monitoring
ELBW	Extremely low birthweight , which is less than 1000 g
HIE	Hypoxic-ischemic encephalopathy
NAVA	Neurally adjusted ventilatory assist
NIV	Non-invasive ventilation
NIV NAVA	Non-invasive Neurally adjusted ventilatory assist
NMD	Neuromuscular disorder
PSV	Pressure support ventilation
RDS	Respiratory distress syndrome
RSV	Respiratory syncytial virus
VLBW	Very low birthweight , which is less than 1500 g



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Sales Office · Getinge · 1 Geoffrey Way · Wayne, NJ 07470 · USA

Manufacturer · Maquet Critical Care AB · Röntgenvägen 2 SE-171 54 Solna · Sweden · +46 (0)10 335 73 00

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