

References

1. Sturgeon C.J., Douglas M.E., Downs J.B. and Dannemiller F.J.: PEEP and CPAP: Cadiopulmonary effects during spontaneous ventilation. *Anaesth & Analg*, 1997; 56:633_641.
2. Branson R. D. and Chatburn R. L.: Technical description and classification of modes of ventilator operation. *Respiratory care*, 1992; 37:1026_44.
3. Robert E.H. and Douglas C.J.: Noninvasive ventilation. *N Engl J Med*, 1997; 325: 337_24.
4. Carrey Z., Gottfried S. B. and Levy R.D.: Ventilatory muscle support in respiratory failure with nasal positive pressure ventilation, *Chest*, 1990; 97:150_8.
5. Meyer T.J. and Hill N.S.: Noninvasive positive pressure ventilation to treat respiratory failure. *Ann Intern Med*, 1994; 120:760_770.
6. Hill N.S., Eveloff S.E., Carlisle C.C. and Goff S.G.: Efficacy of nocturnal nasal ventilation in patients with restrictive thoracic disease. *Am Rev Respir Dis*, 1992; 145:365_71.
7. Bach J.R.: Intermittent positive pressure ventilation via the mouth as alternative to tracheostomy for 257 ventilator users. *Chest*, 1993; 103:174_182.
8. Girault C, Daudenthun I, Chevron V, Tamion F, Leroy, Bonmarchand G: Noninvasive ventilation as a systematic extubation and weaning technique in acute on chronic respiratory failure: a prospective randomized controlled study. *Am J Respir Crit Care Med* 1999, 160:86-92.
9. Massimo Antonelli, Mariano Alberto Pennisi and Luca Montini.: Noninvasive ventilation in the clinical setting experience from the past 10 years. *Critical Care*, 2005; 9: 98-103.

10. B. Schoenhofer, S and Sortor-Leger.: Equipment needs for noninvasive mechanical ventilation, *Eur Respir J* 2002; 20: 1029–1036.
11. Richard H Kallet and Janet V Diaz: The Physiologic Effects of Noninvasive Ventilation, *Respir Care* 2009; 54(1):102–114.
12. L. Brochard: Mechanical ventilation: invasive versus noninvasive, *Eur Respir J* 2003; 22: Suppl. 47, 31s–37s.
13. Kramer N, Meyer TJ, Meharg J, Cece RD and Hill NS.: Randomized, prospective trial of noninvasive positive pressure ventilation in acute respiratory failure. *Am J Respir Crit Care Med* 1995; 151: 1799–1806.
14. Antonelli M, Conti G, Rocco M, Bufi M, De Blasi RA, Vivino G, Gasparetto A and Meduri GU: A comparison of noninvasive positive pressure ventilation and conventional mechanical ventilation in patients with acute respiratory failure. *N Engl J Med* 1998, 339:429-435
15. Martin TJ, Hovis JD, Costantino JP, Bierman MI, Donahoe MP, Rogers RM, Kreitz JW, Sciurba FC, Stiller RA and Sanders MH: A randomized, prospective evaluation of noninvasive ventilation for acute respiratory failure. *Am J Respir Crit Care Med* 2000, 161: 807-813.
16. Ferrer M, Esquinas A, Leon M, Gonzalez G, Alarcon A and Torres A: Noninvasive ventilation in severe hypoxemic respiratory failure: a randomized clinical trial. *Am J Respir Crit Care Med* 2003, 168:1438 -1444.
17. Domenighetti G, Gayer R and Gentilini R: Noninvasive pressure support ventilation in non COPD patients with acute cardiogenic pulmonary edema and severe community acquired pneumonia: acute effect and outcome. *Intensive Care Med* 2002, 28:1226-1232

18. Massimo Antonelli, Mariano Alberto Pennisi and Luca Montini:
Clinical review: Noninvasive ventilation in the clinical setting
experience from the past 10 years. *Critical Care* 2005, 9:98-103
19. David R Stather and Thomas E Stewart: Clinical review: Mechanical
ventilation in severe asthma. *Critical Care* 2005, 9:581-587
20. Ferrer M, Esquinas A, Arancibia F, Thonmas Bauer T, Gonzalez G,
Carrillo A, Rodriguez-Roisin R and Torres A: Noninvasive
ventilation during persistent weaning failure: a randomized
controlled trial. *Am J Respir Crit Care Med* 2003, 168:70-76.
21. International Consensus Conferences in Intensive Care Medicine:
Noninvasive positive pressure ventilation in acute respiratory
failure. *Am J Respir Crit Care Med* 2001, 163:283-291.
22. Keenan SP, Powers C, Mc Cormack DG and Block G: Noninvasive
positive-pressure ventilation for poextubation respiratory
distress: a randomized controlled trial. *JAMA* 2002, 287:3238-
3244.
23. Navalesi P, Fanfulla F, Frigerio P, Gregoretti C and Nava S:
Physiologic evaluation of noninvasive mechanical ventilation
delivered with three types of masks in patients with chronic
hypercapnic respiratory failure. *Crit Care Med* 2000, 28:1785-
1790.
24. Patroniti N, Foti G, Mangio A, Coppo A, Bellini G and Pesenti A:
Head helmet versus face mask for non-invasive continuous
positive airway pressure: physiological study. *Intensive Care
Med* 2003, 29:1680-1687.
25. S Baudouin, S Blumenthal, B Cooper, C Davidson, A Davison, M
Elliott and W Kinnear: Non-invasive ventilation in acute
respiratory failure. *Thorax* 2002; 57:192–211.

26. Vitacca M, Ambrosino N, Clini E, et al. Physiological response to pressure support ventilation delivered before and after extubation in patients not capable of totally spontaneous autonomous breathing. *Am J Respir Crit Care Med* 2001; 164: 638–641.
27. Hilbert G, Gruson D, Portel L, Gbikpi-Benissan G, Cardinaud JP. Noninvasive pressure support ventilation in COPD patients with postextubation hypercapnic respiratory insufficiency. *Eur Respir J* 1998; 11: 1349–1353.
28. Keenan S, Powers C, McCormack D, Block G. Noninvasive positive-pressure ventilation for postextubation respiratory distress: a randomized controlled trial. *JAMA* 2002; 287: 3238–3244
29. Ferrer M, Esquinas A, Arancibia F, et al. Noninvasive ventilation during persistent weaning failure: a randomized controlled trial. *Am J Respir Crit Care Med* 2003; 168: 70–76.
30. Joshua O Benditt: Novel Uses of Noninvasive Ventilation. *Respir Care* 2009; 54(2):212–219.
31. Maitre B, Jaber S, Maggiore SM, Bergot E, Richard JC, Bakthiari H: Continuous positive airway pressure during fiberoptic bronchoscopy in hypoxemic patients: a randomized double-blind study using a new device. *Am J Respir Crit Care Med* 2000;162(3 Pt 1):1063-1067.
32. Antonelli M, Conti G, Rocco M, Arcangeli A, Cavaliere F, Progetti R, Meduri GU. Noninvasive positive-pressure ventilation vs. conventional oxygen supplementation in hypoxemic patients undergoing diagnostic bronchoscopy. *Chest* 2002; 121(4):1149-1154.

33. Squadrone V, Coxa M, Cerutti E, Schellino MM, Biolino P, Occella: Continuous positive airway pressure for treatment of postoperative hypoxemia: a randomized controlled trial. *JAMA* 2005; 293(5): 589-595.
34. Kindgen-Milles D, Müller E, Buhl R, Böchner H, Ritter D, Sandmann W, Tarnow J. Nasal-continuous positive airway pressure reduces pulmonary morbidity and length of hospital stay following thoracoabdominal aortic surgery. *Chest* 2005; 128(2):821-828.
35. Auriant I, Jallot A, Herve´ P, Cerrina J, Le Roy Ladurie F, Fournier JL: Noninvasive ventilation reduces mortality in acute respiratory failure following lung resection. *Am J Respir Crit Care Med* 2001; 164(7):1231-1235.
36. Boitano LJ, Jordan T, Benditt JO: Noninvasive ventilation allows gastrostomy tube placement in patients with advanced ALS. *Neurology* 2001; 56(3):413-414.
37. Birnkrant DJ, Ferguson RD, Martin JE and Gordon GJ. Noninvasive ventilation during gastrostomy tube placement in patients with severe Duchenne muscular dystrophy: case reports and review of the literature. *Pediatr Pulmonol* 2006; 41(2):188-193.
38. Branson RD, Robinson L. Mechanical ventilation in mass casualty scenarios. *Respir Care* 2008; 53(1):38-39.
39. Cheung TM, Yam LY, So LK, Lau AC, Poon E, Kong BM, Yung RW: Effectiveness of noninvasive positive pressure ventilation in the treatment of acute respiratory failure in severe acute respiratory syndrome. *Chest* 2004; 126(3):845-850.
40. Yam LY, Chan AY, Cheung TM, Tsui EL, Chan JC, Wong VC: Noninvasive versus invasive mechanical ventilation for respiratory failure in severe acute respiratory syndrome. *Chin Med J (Engl)* 2005; 118(17):1413-1421.

41. Fowler RA, Guest CB, Lapinsky SE, Sibbald WJ, Louie M, Tang P, et al. Transmission of severe acute respiratory syndrome during intubation and mechanical ventilation. *Am J Respir Crit Care Med* 2004; 169(11):1198-1202.
42. Scales D. SARS exposure in an ICU (presentation). http://microbiology.mtsinai.on.ca/sarswatch/presentations/scales/pres_scales.wf. Accessed December 4, 2008.
43. Hui DS, Hall SD, Chan MT, Chow BK, Tsou JY, Joynt GM, et al.: Noninvasive positive-pressure ventilation: An experimental model to assess air and particle dispersion. *Chest* 2006; 130(3):730-740.
44. Mokhlesi B, Tulaimat A. Recent advances in obesity hypoventilation syndrome. *Chest* 2007; 132(4):1322-1336.
45. Hida W, Okabe S, Tatsumi K, Kimura H, Akasiba T, Chin K, et al.: Nasal continuous positive airway pressure improves quality of life in obesity hypoventilation syndrome. *Sleep Breath* 2003; 7(1):3-12.
46. Norman RG, Goldring RM, Clain JM, Oppenheimer BW, Charney AN, Rapoport DM, Berger KI: Transition from acute to chronic hypercapnia in patients with periodic breathing: predictions from a computer model. *J Appl Physiol* May 2006; 100(5):1733-1741.
47. Pe´rez de Llano LA, Golpe R, Ortiz Piquer M, Veres Racamonde A, Va´zquez Caruncho M, Caballero Muinelos O, Alvarez Carro C.: Short-term and long-term effects of nasal intermittent positive pressure ventilation in patients with obesity-hypoventilation syndrome. *Chest* 2005; 128(2):587-594.

48. Grant RK, Boots RJ, McEvoy JD.: Bilevel non-invasive ventilation in malignant large airways obstruction during chemotherapy and radiotherapy. *Anaesth Intensive Care* 1999; 27:295–297.
49. Meduri GU, Fox RC, Abou-Shala N, Leeper KV, Wunderink RG: Noninvasive mechanical ventilation via face mask in patients with acute respiratory failure who refused endotracheal intubation. *Crit Care Med* 1994; 22:1584–1590.
50. Azoulay E, Alberti C, Bornstain C.: Improved survival in cancer patients requiring mechanical ventilatory support: impact of noninvasive mechanical ventilatory support. *Crit Care Med* 2001; 29:519–525.
51. Hilbert G, Gruson D, Vargas F: Noninvasive ventilation in immunosuppressed patients with pulmonary infiltrates, fever, and acute respiratory failure. *N Engl J Med*; 344:481–487.
52. Antonelli M, Conti G, Bui M: Noninvasive ventilation for treatment of acute respiratory failure in patients undergoing solid organ transplantation: a randomized trial. *JAMA* 2000; 283:235–241.
53. A.P. Meert, L. Close, M. Hardy, T. Berghmans, E. Markiewicz, J.P. Sculier: Noninvasive ventilation: application to the cancer patient admitted in the intensive care unit. *Support Care Cancer* 2003; 11:56–59
54. S.T. Smailes: Noninvasive Positive Pressure Ventilation in burns. *Burns* 2002; 28: 795–801.
55. Clini E, Sturani C, Rossi A.: The Italian multicenter study on noninvasive ventilation in chronic obstructive pulmonary disease patients. *Eur Respir J* 2002; 20: 529–538.
56. Meecham Jones DJ, Paul EA, Jones PW, Wedzicha JA. Nasal pressure support ventilation plus oxygen compared with oxygen therapy alone in hypercapnic COPD. *Am J Respir Crit Care Med* 1995; 152: 538–544.

57. Casanova C, Celli BR, Tost L, et al. Long-term controlled trial of nocturnal nasal positive pressure ventilation in patients with severe COPD. *Chest* 2000; 118: 1582–1590.
58. T. Köhnlein, T. Welte: Noninvasive ventilation in stable chronic obstructive pulmonary disease. *Chest* 2005; 44: 39-120.
59. U. Mellies, R. Ragette, C. Dohna Schwake, H. Boehm, T. Voit and H. Teschler: Long-term noninvasive ventilation in children and adolescents with neuromuscular disorders. *Eur Respir J* 2003; 22: 631–636.
60. Hill NS, Eveloff SE, Carlisle CC and Goff SG: Efficacy of nocturnal nasal ventilation in patients with restrictive thoracic disease. *Am Rev Respir Dis* 1992; 145: 365–371.
61. Dominique Robert and Laurent Argaud: Clinical review: Long-term noninvasive ventilation. *Critical Care* 2007; 11:210.
62. A. Singh and P.J. Sterk: Noninvasive ventilation and the potential risk of transmission of infection. *Eur Respir J* 2008; 32(3): 280–286.
63. Peter C Gay: Complications of Noninvasive Ventilation in Acute Care; *Respir Care* 2009; 54(2):246 –257.
64. Calderini E, Confalonieri M, Puccio PG, Francavilla N, Stella L, Gregoret C. Patient-ventilator asynchrony during noninvasive ventilation: the role of expiratory trigger. *Intensive Care Med* 1999; 25(7):662-67.
65. Confalonieri M, Gazzaniga P, Gandola L, Aiolfi S, Della Porta R, Frisinghelli A, Bellone A. Hemodynamic response during initiation of non-invasive positive pressure ventilation in COPD patients with acute ventilatory failure. *Respir Med* 1998; 92(2):331-337.

66. Devlin JW, Nava S, Fong JJ, Hill NS: Survey of sedation practices during noninvasive positive-pressure ventilation to treat acute respiratory failure. *Crit Care Med* 2007; 35(10):2298-2302.
67. Jean C. Borel, Abdel K. Sabil, Jean-Paul Janssens, Marie Couteau, Loren Boulon, Patrick Lévy and Jean-Louis Pépin: Intentional leaks in industrial masks have a significant impact on efficacy of bilevel noninvasive ventilation: a bench test study. DOI 10.1378/chest.08-1340.
68. Andry Van de Louw, Elsa Brocas, Richard Boiteau, Dominique Perrin-Gachadoat and Alain Tenaillon: Esophageal Perforation Associated With Noninvasive Ventilation, A Case Report. *Chest* 2002; 122:1857–1858.
69. Bart L. De Keulenaer, Adelard De Backer, Dirk R Schepens, Ronny Daelemans, Alexander Wilmer and Manu L. N. G. Malbrain: Abdominal compartment syndrome related to noninvasive ventilation. *Intensive Care Med* 2003; 29:1177–1181.
70. F. Crummy and M. T. Naughton: Non-invasive positive pressure ventilation for acute respiratory failure: justified or just hot air? *Internal Medicine Journal* 2007; 37: 112–118.
71. Mehta S, Hill NS: Noninvasive ventilation. *Am J Respir Crit Care Med* 2001; 163: 540–577.
72. Peter JV, Moran JL, Phillips-Hughes J, Warn D: Noninvasive ventilation in acute respiratory failure – a meta-analysis update. *Crit Care Med* 2002; 30: 555–562.
73. Lightowler JV, Wedzicha JA, Elliott MW and Ram FS.: Noninvasive positive pressure ventilation to treat respiratory failure resulting from exacerbations of chronic obstructive pulmonary disease: Cochrane systematic review and meta analysis. *BMJ* 2003; 326: 185–187.

74. Hill NS: Noninvasive ventilation for chronic obstructive pulmonary disease. *Respir Care* 2004; 49(1):72-87; discussion 87-89.
75. Bersten AD, Vedig AE, Showronski GA and Baggoley GJ.: Treatment of severe cardiogenic pulmonary oedema with CPAP delivered by facemask. *N Engl J Med* 2001; 25:1825-1830.
76. Abraham E and Yoshihara G: Cardiorespiratory effects of pressure control ventilation in severe respiratory failure. *Chest* 1990; 98:1445-1449.
77. Pennok BE, Kaplan PD. and Carlin BW: Pressure support ventilation with a simplified ventilatory support system administered with a nasal mask in patients with respiratory failure. *Chest* 1991; 100:1371-6.
78. Kilger E, Breigel J, Haller M, Frey L, Schelling G, Stoll C, Pichler B and Peter K: Effect of NIPPV support in non-COPD patients with acute respiratory insufficiency after early extubation. *Intensive Care Med* 1999; 25:1374-1380.
79. Kacmarek RM, Hill NS. Ventilators for noninvasive positive pressure ventilation: technical aspects. In: Muir JF, Ambrosino N, Simon AK, eds. *Noninvasive mechanical ventilation*. Sheffield, European Respiratory Monograph, 2001; 6: pp. 76–105.