

8. Literaturverzeichnis

- AITKEN, R. S.; CLARKE-KENNEDY, A. E. (1928):
On the fluctuation in the composition of the alveolar air during the respiratory cycle in muscular exercise.
J Physiol, 65, 389-411
- ALEF, M.; OECHTERING, G. (1995):
Nichtinvasive Patientenüberwachung in der Tiermedizin: Pulsoximetrie und Kapnographie. Teil II: Kapnographie.
Tierärztl Prax, 23, 1-16
- BAKER, R. W.; BURKI N. K. (1987):
Alterations in ventilatory pattern and ratio of dead-space to tidal volume.
Chest, 92, 1013-1017
- BEHRMANN, K. (1995):
Prophylaktischer, metaphylaktischer und therapeutischer Einsatz des Paramunitätsinducers Baypamun® bei Atemwegserkrankungen von Kälbern unter Praxisbedingungen.
Tierärztliche Hochschule Hannover, Dissertation
- BERG, R. (1982):
Angewandte und topographische Anatomie der Haustiere.
2. Auflage, Gustav Fischer Verlag, Jena
- BLOCK, F. E.; McDONALD, J. S. (1992):
Sidestream versus mainstream carbon dioxide analyzers.
J Clin Monit, 8, 139-141
- BÖBEL, M. (1997):
Leitfaden Kapnometrie.
Stumpf & Kossendey, Edewecht, Wien
- BOHR, C. (1891):
Ueber die Lungenatmung.
Skand Archiv Physiol, 2, 236-268
- BRANK, M.; LE GRAND, D.; POUMARAT, F.; BEZILLE, P.; ROSENGARTEN, R.; CITTI, C. (1999):
Development of a recombinant antigen for antibody-based diagnosis of *Mycoplasma bovis* infection in cattle.
Clin Diag Lab Immunol, 6, 861-867
- BRASS, A. (1991):
Bestimmung der CO₂-Konzentration in der Atemluft zur Narkoseüberwachung beim Hund.
Kleintierpraxis, 36, 627-632
- BUCHENAU, I. (2003):
Immunhistologische Untersuchungen zur Expression variabler Oberflächenantigene von *Mycoplasma bovis* und zur Immunreaktion in der Lunge von experimentell infizierten Rindern.
Tierärztliche Hochschule Hannover, Dissertation
- BUCHVAROVA, Y.; VESSELINOVA, A. (1989):
On the aetiopathogenesis of mycoplasma pneumonia in calf.
Arch exper Vet med, 43, 685-689

- BURTON, G. W. (1969):
Measurement of inspired and expired oxygen and carbon dioxide.
Brit J Anaesth, 41, 723-730
- COCHRANE, G. M.; NEWSTEADT, C. G.; NOWELL, R. V.; OPENSHAW, P.; WOLFF, C. B. (1982):
The rate of rise of alveolar carbon dioxide pressure during expiration in man.
J Physiol, 333, 17-27
- COMROE, J. H.; FORSTER, R. E.; DUBOIS, A. B.; BRISCOE, W. A.; CARLSEN, E. (1968):
Die Lunge. Klinische Physiologie und Lungenfunktionsprüfungen.
2. Auflage, Schattauer, Stuttgart, New York
- CONRAD, S. A.; KINASEWITZ, G. T.; GEORGE, R. B. (1984):
Pulmonary function testing principles and practice.
Churchill Livingstone, New York, Edinburgh, London, 99-100
- CRIBB, P. H. (1988):
Capnographic monitoring during anesthesia with controlled ventilation in the horse.
Vet Surg, 17, 48-52
- CUMMING, G.; CRANK, J.; HORSFIELD, K.; PARKER, J. (1966):
Gaseous diffusion in the airways of the human lung.
Respir Physiol, 1, 58-74
- CUNNINGHAM, J. G. (1997):
Textbook of veterinary physiology.
2. Auflage, Saunders, Philadelphia, London, Toronto
- DESMARCHELIER, M.; RONDENAY, Y.; FITZGERALD, G.; LAIR, S. (2004):
Implication of avian respiratory physiology on the use of capnometry in the monitoring of CO₂ dynamic in anesthetized birds.
The 22nd Symposium of the Veterinary and Comparative Respiratory Society, Montreal, 01.-03.10.2004
- DORNHORST, A. C.; SEMPLE, S. J. G.; YOUNG, I. M. (1953):
Automatic fractional analysis of expired air as a clinical test.
Lancet, 1, 370-372
- DUBOIS, A. B.; BRITT, A. G.; FENN, W. O. (1952):
Alveolar CO₂ during the respiratory cycle.
J Appl Physiol, 4, 535-548
- ELAM, J. O.; BROWN, E. S. (1955):
Carbon dioxide homeostasis during anesthesia: II. Total sampling for determination of dead space, alveolar ventilation and carbon dioxide output.
Anesthesiology, 16, 886-902
- ENGHOFF, H. (1938):
Volumen inefficax.
Upsala Läkaref Förh, 44, 191-218
- FLETCHER, R. (1980):
The single breath test for carbon dioxide.
Universität Lund, Thesis
zitiert nach: HERHOLZ, C.; STRAUB, R.; BUSATO, A. (2001c)

- FLETCHER, R. (1986):
On-line expiratory CO₂ monitoring.
Int J Clin Monit Comput, 3, 155-163
- FLETCHER, R.; JONSON, B.; CUMMING, G.; BREW, J. (1981):
The concept of deadspace with special reference to the single breath test for carbon dioxide.
Br J Anaesth, 53, 77-88
- FLETCHER, R.; NIKLASON, L.; DREFELDT, B. (1986):
Gas exchange during controlled ventilation in children with normal and abnormal circulation:
A study using the single breath test for carbon dioxide.
Anesth Analg, 65, 645-652
- FOLKOW, B.; PAPPENHEIMER, J. R. (1955):
Components of the respiratory dead space and their variation with pressure breathing and
with bronchoactive drugs.
J Appl Physiol, 8, 102-110
- FOWLER, R. C. (1948a):
A rapid infrared gas analyzer.
Am J Physiol 155, 436-437
- FOWLER, W. S. (1948b):
Lung function studies. II. The respiratory dead space.
Am J Physiol, 154, 405-416
- FOWLER, W. S. (1949):
Lung function studies. III. Uneven pulmonary ventilation in normal subjects and in patients
with pulmonary disease.
J Appl Physiol, 2, 283-299
- FREI, F. J.; KONRAD, R. (1990):
Die arteriell-endtidale CO₂ Partialdruckdifferenz während der Anaesthesie.
Anaesthesist, 39, 101-106
- GALLIVAN, G. J.; McDONELL, W. N.; FORREST, J. B. (1989):
Comparative ventilation and gas exchange in the horse and the cow.
Res Vet Sci, 46, 331-336
- GEISER, D. R.; ROHRBACH, B. W. (1992):
Use of end-tidal CO₂ tension to predict arterial CO₂ values in isofluran-anesthetized equine
neonates.
Am J Vet Res, 53, 1617-1621
- GINER, J.; CASAN, P. (2004):
Pulse oximetry and capnography in lung function laboratories.
Arch Bronconeumol, 40, 311-314
- GLEN, J. B. (1972):
A comparison of arterial and tracheal end tidal carbon dioxide tensions during clinical
anaesthesia in dogs.
Proc Assoc Vet Anaesth Great Britain and Ireland, 3, 29-33
- GÖPFERT, H.; HENNEBERG, U. (1956):
Der Anstieg der CO₂-Konzentration in der Expirationsluft im Verlauf einzelner Atemzüge.
Pflüg Arch, 263, 1-22

- GUSTIN, P.; LEKEUX, P.; LOMBA, F.; CLERCX, C. (1987):
Mechanical properties of excised calf lungs: effects of airway obstruction with beads.
Res Vet Sci, 42, 277-279
- HAGERTY, J. J.; KLEINMAN, M. E.; ZURAKOWSKI, D.; LYONS, A. C.; KRAUSS, B. (2002):
Accuracy of a new low-flow sidestream capnography technology in newborns: A pilot study.
J Perinatol, 22, 219-225
- HARDMAN, J. G.; AITKENHEAD, A. R. (1999):
Estimation of alveolar deadspace fraction using arterial and end-tidal CO₂: A factor analysis
using a physiological simulation.
Anaesth Int Care, 27, 452-458
- HERHOLZ, C. (2002):
Early detection of pulmonary dysfunction in the horse: A clinical approach to validate
ultrasonic spirometry and capnography.
Veterinärmedizinische Fakultät der Universität Bern, Habilitationsschrift
- HERHOLZ, C.; GERBER, V.; TSCHUDI, P.; STRAUB, R.; IMHOF, A.; BUSATO, A. (2003):
Use of volumetric capnography to identify pulmonary dysfunction in horses with and without
clinically apparent recurrent airway obstruction.
Am J Vet Res, 64, 338-345
- HERHOLZ, C.; MOENS, Y.; STRAUB, R. (1998):
Therapiekontrolle mit Hilfe der Ultraschall-Spirometrie und Kapnographie bei lungenkranken
Pferden.
DVG, Wiesbaden
- HERHOLZ, C.; PHILIPP, M.; STRAUB, R.; UELTSCHI, G.; BUSATO, A. (2001a):
Comparison of the clearance of ^{99m}Tc-Technetium-DTPA from the lung and lung function indices
derived from the single breath diagram for carbon dioxide in horses with chronic obstructive
pulmonary disease.
J Vet Med, A, 48, 553-561
- HERHOLZ, C.; STRAUB, R.; BUSATO, A. (2001b):
Ultrasound-spirometry and capnography in horses: analysis of measurement reliability.
Vet Res Commun, 25, 137-147
- HERHOLZ, C.; STRAUB, R.; BUSATO, A. (2001c):
The variability and repeatability of indices derived from the single breath diagram for CO₂ in
horses with chronic obstructive pulmonary disease and the effect of lobelin hydrochlorid on
these indices.
Vet Res Commun, 25, 401-412
- HERHOLZ, C.; STRAUB, R.; GERBER, V.; WAMPFLER, B.; LÜTHI, S.; IMHOF, A.; MOENS,
Y.; BUSATO, A. (2002a):
Relationship between clinical signs and pulmonary function estimated by the single breath
diagram for CO₂ (SBD-CO₂) in horses with chronic obstructive pulmonary disease.
Vet J, 163, 187-195
- HERHOLZ, C.; STRAUB, R.; IMHOF, A.; LÜTHI, S.; BURGER, D.; BUSATO, A. (2001d):
Pulmonary function at rest in show jumpers, event and endurance horses assessed by
indices derived from the single breath diagram for CO₂ (SBD-CO₂).
Pferdeheilkd, 17, 471-476

HERHOLZ, C.; STRAUB, R.; LÜTHI, S.; IMHOF, A.; BUSATO, A. (2002b):
Differences in pulmonary functional indices derived from the single-breath diagramm for CO₂ (SBD-CO₂) in horses related to age, sex and usage.
Vet Res Commun, 26, 467-478

HERHOLZ, C.; STRAUB, R.; LÜTHI, S.; MOENS, Y.; IMHOF, A.; BUSATO, A. (2002c):
Validity of pulmonary function indices derived from the volumetric capnogram in horses with recurrent airway obstruction (RAO).
Res Vet Sci, 72, 141-146

HERHOLZ, C.; STRAUB, R.; MOENS, Y.; BUSATO, A. (2001e):
Statistical shape analysis of volumetric capnograms: evaluation of a new approach for the assessment of pulmonary function in horses with chronic obstructive pulmonary disease.
J Vet Med, A, 48, 75-84

HIGHTOWER, C. E.; KIORPES, A. L.; BUTLER, H. C.; FEDDE, M. R. (1980):
End-tidal partial pressure of CO₂ as an estimate of arterial partial pressure of CO₂ during various ventilatory regimens in halothane-anesthetized dogs.
Am J Vet Res, 41, 610-612

HOESER, C.; GEIDEL, C.; BITTNER, P.; FEGBEUTEL, C.; HÜLS, G.; LINDEMANN, H. (2003):
Emphysemdiagnostik mittels Kapnovolumetrie bei CF-Patienten.
Bildgebende Verfahren in der Pneumologie, 39. Jahrestagung der Gesellschaft für Lungen- und Atemforschung e. V. in der Deutschen Gesellschaft für Pneumologie, Berufsgenossenschaftliche Kliniken Bergmannsheil, Universitätsklinik der Ruhr-Universität Bochum, 04., 05.12.2003

HOESER, C.; HÜLS, G.; REINECK, P.; SCHÜLER, D.; LINDEMANN, H. (2004):
Kapnovolumetrie: eine Bereicherung der Lungenfunktionsdiagnostik?
Atemw-Lungenkrkh, 30, 214-219

HOFFBRAND, B. I. (1966):
The expiratory capnogram: a measure of ventilation-perfusion inequalities.
Thorax, 21, 518-523

KALENDA, Z. (1980):
Equipment for capnography.
Brit J Equip, 9, 180-193

KARS, A. H. (1995):
Clinical application of capnography in chronic obstructive pulmonary disease.
Erasmus Universität Rotterdam, Proefschrift

KELSEY, J. E.; OLDHAM, E. C.; HORVATH, S. M. (1962):
Expiratory carbon dioxide concentration curve. A test of pulmonary function.
Dis Chest, 41, 498-503

KLEIN, C.; SMITH, H. J.; MIESKES, N.; GILLNER, M. (2006):
Einfluss der Position der Absaugstrecke und der Größe des Totraumes in der Maske auf ausgewählte Messergebnisse der Capno-Volumetrie beim Pferd.
Tagung der Sektion Pathophysiologie und Aerosolmedizin in der DGP, Asklepios Fachkliniken München-Gauting, 13., 14.10.2006

- KOENIG, J.; McDONELL, W.; VALVERDE, A. (2003):
Accuracy of pulse oximetry and capnography in healthy and compromised horses during spontaneous and controlled ventilation.
Can J Vet Res, 67, 169-174
- KOULOOURIS, N. G.; LATSIS, P.; DIMITROULIS, J.; JORDANOGLU, B.; GAGA, M.; JORDANOGLU, J. (2001):
Noninvasive measurement of mean alveolar carbon dioxide tension and Bohr's dead space during tidal breathing.
Eur Respir J, 17, 1167-1174
- KOULOOURIS, N. G.; LATSIS, P.; STAVROU, E.; CHRONEOU, A.; GAGA, M.; JORDANOGLU, J. (2004):
Unevenness of ventilation assessed by the expired CO₂ gas volume versus VT curve in asthmatic patients.
Respir Physiol Neurobiol, 140, 293-300
- KROGH, A.; LINDHARD, J. (1917):
The volume of the dead space in breathing and the mixing of gases in the lungs of man.
J Physiol, 51, 59-90
- KUHLMANN, W. D.; DOLEZAL, S. R.; FEDDE, M. R. (1985):
Effect of ruminal CO₂ on gas exchange and ventilation in the Hereford calf.
J Appl Physiol, 58, 1481-1484
- LANGLEY, F.; EVEN, P.; DUROUX, P.; NICOLAS, R. L.; CUMMING, G. (1975):
Ventilatory consequences of unilateral pulmonary artery occlusion.
Les Colloques de l'Institut National de la Santé et de la Recherche Medicale, 51, 209-214
zitiert nach: WOLF, G.; BRUNNER, J. X. (1984)
- LAWNICK, U.; REINHOLD, P.; DOLL, K. (2005):
Therapeutischer Effekt einer Inhalation mit hypertoner Kochsalzlösung bei Kälbern mit Bronchopneumonie.
Tierärztl Prax (G), 33, 373-382
- LEKEUX, P. (1993):
Pulmonary function in healthy, exercising and diseased animals.
Vlaams Diergeneeskd Tijdschr, special issue
- LEKEUX, P.; HAJER, R.; BREUKINK, H. J. (1984a):
Pulmonary function testing in calves: Technical data.
Am J Vet Res, 45, 342-345
- LEKEUX, P.; HAJER, R.; BREUKINK, H. J. (1984b):
Effect of somatic growth on pulmonary function values in healthy Frisian cattle.
Am J Vet Res, 45, 2003-2007
- LINDEMANN, H.; WUNSCH, M.; MÜLLER, R. (1981):
Capnography: an important lung function test in children.
Progr Resp Res, 17, 112-122
- LUFT, K. F. (1943):
Über eine neue Methode der registrierenden Gasanalyse mit Hilfe der Absorption ultraroter Strahlen ohne spektrale Zerlegung.
Z Techn Phys, 24, 97-104

- LUIJENDIJK, S. C. M.; ZWART, A.; de VRIES, W. R.; SALET, W. M. (1980):
The sloping alveolar plateau at synchronous ventilation.
Pflug Arch, 384, 267-277
- LYSNYANSKY, I.; SACHSE, K.; ROSEBUSCH, R.; LEVISOHN, S.; YOGEV, D. (1999):
The *vsp* locus of *Mycoplasma bovis*: Gene organization and structural features.
J Bacteriol, 181, 5734-5741
- MARSHALL, M. (2004):
Capnography in dogs.
Comp Con Ed Pract Vet, 26, 761-777
- McLAUGHLIN, R. F.; TYLER, W. S.; CANADA, R. O. (1961):
A study of the subgross pulmonary anatomy in various mammals.
Am J Anat, 108, 149-165
- MOENS, Y. P. S. (1992):
Ventilation and gas exchange in each lung of the anaesthetised horse. The influence of body position and mechanical ventilation.
Universit t Utrecht, Proefschrift
- MOENS, Y.; de MOOR, A. (1981):
Use of infra-red carbon dioxide analysis during general anaesthesia in the horse.
Equ Vet J, 13, 229-234
- MOENS, Y.; VERSTRAETEN, W., (1982):
Capnographic monitoring in small animal anesthesia.
J Am Anim Hosp Assoc, 18, 659-678
- MUR NYI, L.; OSV TH, P.; UHL, K.; OSV TH, P. (1969):
Continuous registration of the CO₂ contents in expired air (capnography) in the inhalative provocation of children.
Acta Paediatr Acad Sci Hung, 10, 133-154
- MUYSERS, K.; SIEHOFF, F.; WORTH, G. (1960):
Anwendungsm glichkeiten der Massenspektrometrie in der Lungenfunktionsdiagnostik.
Klin Wochenschr, 38, 490-494
- NEUFELD, G. R.; GOBRAN, S.; BAUMGARDNER, J. E.; AUKBURG, S. J.; SCHREINER, M.; SCHERER, P. W. (1991):
Diffusivity, respiratory rate and tidal volume influence inert gas expirograms.
Respir Physiol, 84, 31-47
- NICHOLAS, R. A. J.; AYLING, R. D. (2003):
Mycoplasma bovis: disease, diagnosis and control.
Res Vet Sci, 74, 105-112
- NUNN, J. F.; HILL, D. W. (1960):
Respiratory dead space and arterial to end-tidal carbon dioxide tension difference in anaesthetized man.
J Appl Physiol, 15, 383-389
- OLSSON, K.; JONSON, B.; OLSSON, C. G.; WOLLMER, P. (1998):
Diagnosis of pulmonary embolism by measurement of alveolar dead space.
J Intern Med, 244, 199-207

OLSSON, S. G.; FLETCHER, R.; JONSON, B.; NORDSTROEM, L.; PRAKASCH, O. (1980):
Clinical studies of gas exchange during ventilatory support - a method using the Siemens-
Elema CO₂ analyzer.
Br J Anaesth, 52, 491-498

OTIS, A. B.; McKERROW, C. B.; BARTLETT, R. A.; MEAD, J.; McILROY, M. B.;
SELVERSTONE, N. J.; RADFORD, E. P. (1956):
Mechanical factors in distribution of pulmonary ventilation.
J Appl Physiol, 8, 427-443

OTTO, K. (1985):
Die Anwendung der Kapnographie bei der Allgemeinnarkose des Pferdes.
Tierärztliche Hochschule Hannover, Dissertation

OTTO, K. (1986):
Kapnographie - eine Methode zur Beurteilung der Ventilationslage während der
Allgemeinanästhesie beim Pferd.
J Vet Med, 33, 609-616

PALOHEIMO, M.; COZANITIS, D. (1983):
Kapnometrie in der Anaesthetie- und Intensivtherapie.
Anaesthesist, 32, 2-5

PFÜTZNER, H.; SACHSE, K. (1996):
Mycoplasma bovis as an agent of mastitis, pneumonia, arthritis and genital disorders in
cattle.
Rev sci tech Off int Epiz, 15, 1477-1494

POPPIUS, H. (1969):
Expiratory CO₂ curve in pulmonary disease.
Scand J Resp Dis, 50, 135-146

REAM, R. S.; SCHREINER, M. S.; NEFF, J. D.; McRAE, K. M.; JAWAD, A. F.; SCHERER,
P. W.; NEUFELD, G. R. (1995):
Volumetric capnography in children: influence of growth on the alveolar plateau slope.
Anesthesiology, 82, 64-73

REINHOLD, P. (1997a):
Grundlagen und Besonderheiten der Lungenfunktion beim Rind.
Tierärztl Umsch, 52, 584-592

REINHOLD, P. (1997b):
Atmungsmechanik beim Tier. 2. Mitteilung: Die forcierte Oszilloresistometrie -
Übersichtsarbeit.
Berl Münch Tierärztl Wschr, 110, 257-266

REINHOLD, P. (2001):
Untersuchungen zur Bestimmung pulmonaler Funktionen beim Kalb.
Freie Universität Berlin, Habilitationsschrift

REINHOLD, P.; JAEGER, J.; LIEBLER-TENORIO, E.; BERNDT, A.; BACHMANN, R.;
SCHUBERT, E.; MELZER, F.; ELSCHNER, M.; SACHSE, K. (2007):
Impact of latent infections with *Chlamydophila* species in young cattle.
Vet J, doi:10.1016/j.tvjl.2007.01.004 (e-pub)

- REINHOLD, P.; LANGENBERG, A.; LEKEUX, P. (1998a):
Übersichtsarbeit.
Atmungsmechanik beim Tier. 4. Mitteilung: Die diagnostische Aussagefähigkeit von Untersuchungen mit dem Impuls-Oszilloresistometrie-System (IOS) beim Kalb.
Berl Münch Tierärztl Wschr, 111, 262-267
- REINHOLD, P.; MACLOED, D.; LEKEUX, P. (1996):
Comparative evaluation of impulse oscillometry and a monofrequency forced oscillation technique in clinically healthy calves undergoing bronchochallenges.
Res Vet Sci, 61, 206-213
- REINHOLD, P.; SMITH, H. J.; CLOSE, R.; GENICOT, B.; LEKEUX, P. (1998b):
Validation of impulse oscillometry in Frisian and Blue Belgian calves with respect to changes in extrathoracic upper airway resistance.
Res Vet Sci, 65, 93-102
- REINHOLD, P.; STEINBACH, G.; LANGENBERG, A.; LEKEUX, P. (1998c):
Übersichtsarbeit.
Atmungsmechanik beim Tier. 3. Mitteilung: Methodische und physiologische Aspekte bei der Anwendung des Impuls-Oszilloresistometrie-Systems (IOS).
Berl Münch Tierärztl Wschr, 111, 253-261
- ROBINSON, N. E. (1982):
Some functional consequences of species differences in lung anatomy.
Adv Vet Sci Comp Med, 26, 1-33
- RODRIGUEZ, F.; BRYSON, D. G.; BALL, H. J.; FORSTER, F. (1996):
Pathological and immunohistochemical studies of natural and experimental *Mycoplasma bovis* pneumonia in calves.
J Comp Path, 115, 151-162
- ROLLIN, F.; DESMECHT, D.; GENICOT, B.; LINDEN, A.; LOMBA, F.; LEKEUX, P. (1997):
Ventilatory effects of the single-breath CO₂ test, compared with eructation, in cattle.
Am J Vet Res, 58, 310-316
- ROSENBERGER, G. (1990):
Die klinische Untersuchung des Rindes.
3. Auflage, Paul Parey, Berlin, Hamburg
- ROZYCKI, H. J.; SYSYN, G. D.; MARSHALL, M. K.; MALLOY, R.; WISWELL, T. E. (1998):
Mainstream end-tidal carbon dioxide monitoring in the neonatal intensive care unit.
Pediatrics, 101, 648-653
- SANDER, K. (2000):
Beeinflussung atemgasanalytischer Lungenfunktionsparameter durch intravenöse Clenbuterol-Applikation beim Pferd.
Tierärztliche Hochschule Hannover, Dissertation
- SCHMIDT-OECHTERING, G. U.; TRAUTVETTER, E. (1987):
Narkoseüberwachung bei Hund und Katze.
Effem Report, 25, 15-24

SCHWARDT, J. D.; GOBRAN, S. R.; NEUFELD, G. R.; AUKBURG, S. J.; SCHERER, P. W. (1991):

Sensitivity of CO₂ washout to changes in acinar structure in a single-path model of lung airways.

Ann Biomed Eng, 19, 679-697

SEVERINGHAUS, J. W.; STUPFEL, M. (1957):

Alveolar dead space as an index of distribution of blood flow in pulmonary capillaries.

J Appl Physiol, 10, 335-348

SHAHRIAR, F. M.; CLARK, E. G. (2003):

Mycoplasma bovis-associated disease: New syndromes and emerging problems.

Large Animal Vet Rounds, 3 (7), 1-6

SHAHRIAR, F. M.; CLARK, E. G.; JANZEN, E.; WEST, K.; WOBESER, G. (2002):

Coinfection with bovine viral diarrhoea virus and *Mycoplasma bovis* in feedlot cattle with chronic pneumonia.

Can Vet J, 43, 863-868

SILVESTROV, V. P.; SEMIN, S. N.; MARTSINOVSKY, V. Y. (1989):

The possibilities of capnography in the early diagnosis of obstructive ventilatory disorders.

Terap Ark, 61, 91-94

SINGH, S.; ALLEN, W. D. Jr; VENKATARAMAN, S. T.; BHENDE, M. S. (2006):

Utility of a novel quantitative handheld microstream capnometer during transport of critically ill children.

Am J Emerg Med, 24, 302-307

SMALHOUT, B. (1986):

Capnography in circulation monitoring.

Anaesthesist, 35, 154

SMALHOUT, B.; KALENDA, Z. (1981):

An atlas of capnography.

2. Auflage, Kerckebosch, Zeist

SMIDT, U. (1976):

Emphysema as possible explanation for the alteration of expiratory PO₂ and PCO₂ curves.

Bull Europ Physiopath Resp, 12, 605-624

SMIDT, U. (1997a):

Versuch einer semiquantitativen Diagnose des Emphysemgrades aus CO₂-Expirogrammen.

Pneumol, 51, 55-59

SMIDT, U. (1997b):

Praxis und Theorie der Emphysemdiagnostik aus CO₂-Expirogrammen.

Atemw-Lungenkrkh, 23, 635-650

SMIDT, U.; FINKENZELLER, P. (1972):

Ein Computerprogramm für die Ergometrie.

Pneumol, 147, 245-250

SMIDT, U.; WORTH, H. (1977):

Relation between tidal volume and the volume of phase II in expiratory pO₂ and pCO₂ curves as an indicator of lung geometry in healthy and emphysematous subjects.

Bull Europ Physiopath Resp, 13, 157-158

- SMIDT, U.; WORTH, H. (1978):
Zur Diagnostik des Lungenemphysems mit Hilfe des Mischluftanteils expiratorischer pCO₂-Kurven.
Atemw-Lungenkrkh, 4, 156-159
- SMIDT, U.; WORTH, H. (1981):
Gas mixing in patients.
Prog Resp Res, 16, 86-92
- SMITH, H. J. (2003):
Verschiedene Totraumbestimmungen in der Übersicht.
VIASYS™ Healthcare Informationsschrift, 6-9
- SMITH, H. J. (2005):
Eignung der Capnovolumetrie zum Emphysemnachweis.
39. Atmungsphysiologische Arbeitstagung, Novotel Leipzig-City, 28., 29.01.2005
- SMITH, H. J.; REINHOLD, P.; GOLDMAN, M. D. (2005):
Forced oscillation technique and impulse oscillometry.
Eur Resp Mon, 31, 72-105
- SMITH, H. J.; VOGEL, J.; SAUSSEN, B. (2004):
Sollwertbestimmung in der Capno-Volumetrie.
Tagung der Sektion Pathophysiologie und Aerosolmedizin in der DGP, Friedrich-Loeffler-Institut, Bundesforschungsinstitut für Tiergesundheit, Standort Jena, 29., 30.10.2004
- SPIRE, M.; SARGEANT, J.; BLASI, D.; ROSENBUSCH, R. (2002):
Survey examines effect of management practices on mycoplasma infection in kansas cattle.
Kansas Vet Quart, 5, 2-4
- SPÖRRI, H.; DENAC, M. (1967):
Lungenfunktionsprüfungen bei Großtieren.
Schw Arch Tierheilkd, 109, 252-259
- SPÖRRI, H.; ZEROBIN, K. (1964):
Zur Physiologie und Methodik der Lungenfunktionsprüfung.
Tierärztl Umsch, 19, 285-292
- STANFORD, M. (2004):
Practical use of capnography in exotic animal anesthesia.
Exotic DVM, 6.3, 49-52
- STRIE, R.; DOLL, K.; PÖTTMANN, B.; SCHOLZ, H. (1997):
Einfluss verschiedener Faktoren auf die Ergebnisse der Lungenfunktionsprüfung mittels multifrequenter Impulsoszilloresistometrie bei Kälbern und Jungrindern.
Dtsch Tierärztl Wschr, 104, 286-290
- SWEDLOW, D. B. (1986):
Capnometry and capnography: The anesthesia disaster early warning system.
Sem Anesth, 5, 194-205
- TRÖTSCHEL, C. (1996):
Lungenfunktionsprüfung mit besonderer Berücksichtigung der Kapnographie zur Diagnostik von Lungenerkrankungen beim Pferd.
Tierärztliche Hochschule Hannover, Dissertation

- TUSMAN, G.; ARETA, M.; CLIMENTE, C.; PLIT, R.; SUAREZ-SIPMANN, F. (2005):
Effect of pulmonary perfusion on the slopes of single-breath test of CO₂.
J Appl Physiol, 99, 650-655
- ULMER, W. (1955):
Untersuchungen zur Analyse der alveolären Ventilationsstörungen bei chronischem Cor pulmonale.
Verh Dtsch Ges Kreislauff, 360-365
- ULMER, W. T.; NOLTE, D.; LECHELER, J.; SCHÄFER, T. (2001):
Die Lungenfunktion.
6. Auflage, Georg Thieme, Stuttgart, New York
- ULMER, W. T.; REICHEL, G.; NOLTE, D.; ISLAM, M. S. (1983):
Die Lungenfunktion.
3. Auflage, Georg Thieme, Stuttgart, New York
- UYSTEPRUYST, C.; REINHOLD, P.; COGHE, J.; BUREAU, F.; LEKEUX, P. (2000):
Mechanics of the respiratory system in healthy newborn calves using impulse oscillometry.
Res Vet Sci, 68, 47-55
- VAN MEERTEN, R. J. (1966):
Nieuwe analytische methoden voor de interpretatie van concentratiecurven van expiratiegassen.
R C University of Nijmegen, Thoben Offset Nijmegen, Thesis
zitiert nach: POPPIUS, H. (1969)
- VAN MEERTEN, R. J. (1970):
Expiratory gas concentration curves for examination of uneven distribution of ventilation and perfusion in the lung. Theory.
Respiration, 27, 552-564
- VAN RIJN, J. (1983):
Variabilität des Mischluftanteils expiratorischer CO₂-Partialdruckkurven in einem Normal-Kollektiv und Berechnung seiner Schichtdicke im Rahmen des Trompetenmodells der Lunge.
Rheinische Friedrich-Wilhelms-Universität Bonn, Dissertation
- VERSCHUREN, F.; HEINONEN, E.; CLAUSE, D.; ZECH, F.; REYNAERT, M. S.; LIISTRO, G. (2005):
Volumetric capnography: Reliability and reproducibility in spontaneously breathing patients.
Clin Physiol Funct Imaging, 25, 275-280
- VERSCHUREN, F.; LIISTRO, G.; COFFENG, R.; THYS, F.; ROESELER, J.; ZECH, F.; REYNAERT, M. (2004):
Volumetric capnography as a screening test for pulmonary embolism in the emergency department.
Chest, 125, 841-850
- VISSER, B. F.; LUIJENDIJK, S. C. M. (1982):
Gas mixing in the small airways, described by old and new models.
Eur J Respir Dis, 63, 26-35

- VOGEL, J.; BRAND, P.; SMITH, H. J.; KRAUS, T.; LETZEL, S. (2002):
Vergleichende diskriminanzanalytische Evaluierung 6 diagnostischer Verfahren der Radiologie, Aerosolmorphometrie und Funktionsdiagnostik zur Früherkennung von Emphysemzeichen nach Aluminium-Staubexposition.
Tagung der Sektion Pathophysiologie und Aerosolmedizin in der DGP, DRK-Kliniken Mark Brandenburg, 25., 26.10.2002
- WESTDICKENBERG, B. (1978):
Variabilität und Versuch einer anatomischen Deutung des Mischluftanteils expiratorischer O₂- und CO₂-Partialdruckkurven.
Rheinische Friedrich-Wilhelms-Universität Bonn, Dissertation
- WOLFF, G.; BRUNNER, J. X. (1984):
Series dead space volume assessed as the mean value of a distribution function.
Int J Clin Monit Comput, 1, 177-181
- WOLFF, G.; BRUNNER, J. X.; WEIBEL, W.; BOWES, C. L.; MUCHENBERGER, R.; BERTSCHMANN, W. (1989):
Anatomical and series dead space volume: Concept and measurement in clinical praxis.
Appl Cardiopulm Pathophysiol, 2, 299-307
- WOOLUMS, A. R. (2005):
Mycoplasma bovis in bovine respiratory disease.
Proc 23rd ACVIM, Baltimore, USA, 01.-04.06.2005, 260-262
- WORTH, H. (1985):
Zur Diagnostik des Lungenemphysems. Analyse des Mischluftanteils expiratorischer Partialdruckkurven von He, Ar, SF₆, O₂ und CO₂.
Georg Thieme, Stuttgart, New York
- WORTH, H., (1986):
Expiratory partial pressure curves in the diagnosis of emphysema.
Bull Europ Physiopath Resp, 22, 191-199
- WORTH, H.; SMIDT, U. (1980):
Analyse des Mischluftanteils expiratorischer Partialdruckkurven zur Diagnostik des Lungenemphysems.
Prax Pneumol, 34, 400-406
- YARON, M.; PADYK, P.; HUTSINPILLER, M.; CAIRNS, C. B. (1996):
Utility of the expiratory capnogram in the assessment of bronchospasm.
Ann Emerg Med, 28, 403-407
- YOU, B.; PESLIN, R.; DUVIVIER, C.; DANG VU, V.; GRILLIAT, J. P. (1994):
Expiratory capnography in asthma: Evaluation of various shape indices.
Eur Respir J, 7, 318-323
- ZWART, A. (1983):
Modelling of gas transfer in the lung.
Katholieke Universiteit Nijmegen, Proefschrift