

2018 *Effects of Arachidonic and Docosahexaenoic Acid Supplementation during Gestation in Rats. Implication of Placental Oxidative Stress.*

Reyes-Hernández CG, Ramiro-Cortijo D, Rodríguez-Rodríguez P, Giambelluca S, Simonato M, González MDC, López de Pablo AL, López-Giménez MDR, Cogo P, Sáenz de Pipaón M, Carnielli VP, Arribas SM. *Int J Mol Sci.* 2018 Dec 4;19(12):3863. doi: 10.3390/ijms19123863.

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition.

Mihatsch WA, Braegger C, Bronsky J, Cai W, Campoy C, Carnielli V, Darmaun D, Desci T, Domellöf M, Embleton N, Fewtrell M, Mis NF, Franz A, Goulet O, Hartman C, Susan H, Hojsak I, Iacobelli S, Jochum F, Joosten K, Kolacek S, Koletzko B, Ksiazyk J, Lapillonne A, Lohner S, Mesotten D, Mihalyi K, Mimouni F, Mølgaard C, Moltu SJ, Nomayo A, Picaud JC, Prell C, Puntis J, Riskin A, de Pipaon MS, Senterre T, Shamir R, Simchowit V, Szitanyi P, Tabbers MM, van den Akker CHB, van Goudoever JB, van Kempen A, Verbruggen S, Wu J, Yan W. *Clin Nutr.* 2018 Dec;37(6 Pt B):2303-2305. doi: 10.1016/j.clnu.2018.05.029. Epub 2018 Jun 7.

Does intravenous fish oil affect the growth of extremely low birth weight preterm infants on parenteral nutrition?

Biagetti C, Correani A, D'Ascenzo R, Bellagamba MP, Marchionni P, Antognoli L, Pompilio A, Cogo P, Carnielli VP. *Clin Nutr.* 2019 Oct;38(5):2319-2324. doi: 10.1016/j.clnu.2018.10.009. Epub 2018 Oct 16.

Surfactant Components and Tracheal Aspirate Inflammatory Markers in Preterm Infants with Respiratory Distress Syndrome.

Verlato G, Simonato M, Giambelluca S, Fantinato M, Correani A, Cavicchiolo ME, Priante E, Carnielli V, Cogo P. *J Pediatr.* 2018 Dec;203:442-446. doi: 10.1016/j.jpeds.2018.08.019. Epub 2018 Sep 27.

Plasma Phytosterol Half-Life and Levels Are Increased in Very Low Birth Weight Preterm Infants with Parenteral Nutrition-Associated Cholestasis.

Correani A, Pignotti A, Marinelli L, Biagetti C, D'Ascenzo R, Vedovelli L, Verlato G, Cogo P, Rocchi MBL, Carnielli VP. *Lipids.* 2018 Jul;53(7):717-725. doi: 10.1002/lipd.12072. Epub 2018 Sep 6.

Human Milk Oligosaccharides: 2'-Fucosyllactose (2'-FL) and Lacto-N-Neotetraose (LNnT) in Infant Formula.

Vandenplas Y, Berger B, Carnielli VP, Ksiazyk J, Lagström H, Sanchez Luna M, Migacheva N, Mosselmans JM, Picaud JC, Possner M, Singhal A, Wabitsch M. *Nutrients.* 2018 Aug 24;10(9):1161. doi: 10.3390/nu10091161.

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Lipids.

Lapillonne A, Fidler Mis N, Goulet O, van den Akker CHP, Wu J, Koletzko B; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. *Clin Nutr.* 2018 Dec;37(6 Pt B):2324-2336. doi: 10.1016/j.clnu.2018.06.946. Epub 2018 Jun 18.

False positive screen test for mucopolysaccharidoses in healthy female newborns.

Monachesi C, Zampini L, Padella L, Marchesiello RL, Galeazzi T, Santoro L, Catassi C, Gasparrini E, Carnielli VP, Volpi N, Fiumara A, Concolino D, Tomanin R, Coppa GV, Gabrielli O. *Clin Chim Acta.* 2018 Nov;486:221-223. doi: 10.1016/j.cca.2018.08.016. Epub 2018 Aug 12

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Amino acids.

van Goudoever JB, Carnielli V, Darmaun D, Sainz de Pipaon M; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2315-2323. doi: 10.1016/j.clnu.2018.06.945. Epub 2018 Jun 18.

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Vitamins.

Bronsky J, Campoy C, Braegger C; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2366-2378. doi: 10.1016/j.clnu.2018.06.951. Epub 2018 Jun 18.

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Home parenteral nutrition.

Hill S, Ksiazek J, Prell C, Tabbers M; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2401-2408. doi: 10.1016/j.clnu.2018.06.954. Epub 2018 Jun 18.

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Calcium, phosphorus and magnesium.

Mihatsch W, Fewtrell M, Goulet O, Molgaard C, Picaud JC, Senterre T; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2360-2365. doi: 10.1016/j.clnu.2018.06.950. Epub 2018 Jun 18

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Iron and trace minerals.

Domellöf M, Szitanyi P, Simchowicz V, Franz A, Mimouni F; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2354-2359. doi: 10.1016/j.clnu.2018.06.949. Epub 2018 Jun 18

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Energy.

Joosten K, Embleton N, Yan W, Senterre T; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2309-2314. doi: 10.1016/j.clnu.2018.06.944. Epub 2018 Jun 18

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Fluid and electrolytes.

Jochum F, Moltu SJ, Senterre T, Nomayo A, Goulet O, Iacobelli S; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2344-2353. doi: 10.1016/j.clnu.2018.06.948. Epub 2018 Jun 18.

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Organisational aspects.

Puntis J, Hojsak I, Ksiazek J; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2392-2400. doi: 10.1016/j.clnu.2018.06.953. Epub 2018 Jun 18.

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Venous access.

Kolaček S, Puntis JW, Hojsak I; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2379-2391. doi:

10.1016/j.clnu.2018.06.952. Epub 2018 Jun 18.

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Guideline development process for the updated guidelines. Mihatsch W, Shamir R, van Goudoever JB, Fewtrell M, Lapillonne A, Lohner S, Mihályi K, Decsi T; ESPEN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2306-2308. doi: 10.1016/j.clnu.2018.06.943. Epub 2018 Jun 27.

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Standard versus individualized parenteral nutrition.

Riskin A, Picaud JC, Shamir R; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2409-2417. doi: 10.1016/j.clnu.2018.06.955. Epub 2018 Jun 18

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Carbohydrates.

Mesotten D, Joosten K, van Kempen A, Verbruggen S; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2337-2343. doi: 10.1016/j.clnu.2018.06.947. Epub 2018 Jun 18

ESPGHAN/ESPEN/ESPR/CSPEN guidelines on pediatric parenteral nutrition: Complications.

Hartman C, Shamir R, Simchowicz V, Lohner S, Cai W, Decsi T; ESPGHAN/ESPEN/ESPR/CSPEN working group on pediatric parenteral nutrition. Clin Nutr. 2018 Dec;37(6 Pt B):2418-2429. doi: 10.1016/j.clnu.2018.06.956. Epub 2018 Jun 28

Surfactant replacement therapy in combination with different non-invasive ventilation techniques in spontaneously-breathing, surfactant-depleted adult rabbits.

Ricci F, Casiraghi C, Storti M, D'Alò F, Catozzi C, Ciccimarra R, Ravanetti F, Cacchioli A, Villetti G, Civelli M, Murgia X, Carnielli V, Salomone F. PLoS One. 2018 Jul 12;13(7):e0200542. doi: 10.1371/journal.pone.0200542. eCollection 2018

Patent ductus arteriosus in preterm infants born before 30 weeks' gestation: high rate of spontaneous closure after hospital discharge.

Romagnoli V, Pedini A, Santoni M, Scutti G, Colaneri M, Pozzi M, Cogo PE, Carnielli VP. Cardiol Young. 2018 Aug;28(8):995-1000. doi: 10.1017/S1047951118000641. Epub 2018 Jun 29

Cardiopulmonary-Bypass Glial Fibrillary Acidic Protein Correlates With Neurocognitive Skills.

Vedovelli L, Padalino M, Suppiej A, Sartori S, Falasco G, Simonato M, Carnielli VP, Stellin G, Cogo P. Ann Thorac Surg. 2018 Sep;106(3):792-798. doi: 10.1016/j.athoracsur.2018.03.083. Epub 2018 May 5

Estimating the contribution of surfactant replacement therapy to the alveolar pool: An in vivo study based on 13 C natural abundance in rabbits.

Giambelluca S, Ricci F, Simonato M, Correani A, Casiraghi C, Storti M, Cogo P, Salomone F, Carnielli VP. J Mass Spectrom. 2018 Jul;53(7):560-564. doi: 10.1002/jms.4088

Reply to Giesinger and McNamara: The Impact of Therapeutic Hypothermia on Pulmonary Hemodynamics of Meconium Aspiration Syndrome.

De Luca D, Tingay DG, van Kaam A, Brunow de Carvalho W, Valverde E, Roehr CC,

Mosca F, Matassa PG, Danhaive O, Carnielli VP, Piastra M; IGLOO Study Group. *Am J Respir Crit Care Med.* 2018 Jul 15;198(2):287-288. doi: 10.1164/rccm.201803-0411LE

Long-Term Effects of Inhaled Budesonide for Bronchopulmonary Dysplasia.

Bassler D, Shinwell ES, Hallman M, Jarreau PH, Plavka R, Carnielli V, Meisner C, Engel C, Koch A, Kreutzer K, van den Anker JN, Schwab M, Halliday HL, Poets CF; Neonatal European Study of Inhaled Steroids Trial Group. *N Engl J Med.* 2018 Jan 11;378(2):148-157. doi: 10.1056/NEJMoa1708831

Influence of the type of congenital heart defects on epithelial lining fluid composition in infants undergoing cardiac surgery with cardiopulmonary bypass.

Simonato M, Baritussio A, Carnielli VP, Vedovelli L, Falasco G, Salvagno M, Padalino M, Cogo P. *Pediatr Res.* 2018 Apr;83(4):791-797. doi: 10.1038/pr.2017.326. Epub 2018 Feb 7

The maternal-fetal gradient of free and esterified phytosterols at the time of delivery in humans.

Correani A, Visentin S, Cosmi E, Ponchia E, D'Aronco S, Simonato M, Vedovelli L, Cogo P, Carnielli VP. *Clin Nutr.* 2018 Dec;37(6 Pt A):2107-2112. doi: 10.1016/j.clnu.2017.10.004. Epub 2017 Oct 13

Effects of early nutrition and growth on brain volumes, white matter microstructure, and neurodevelopmental outcome in preterm newborns.

Coviello C, Keunen K, Kersbergen KJ, Groenendaal F, Leemans A, Peels B, Isgum I, Viergever MA, de Vries LS, Buonocore G, Carnielli VP, Benders MJNL.

Pediatr Res. 2018 Jan;83(1-1):102-110. doi: 10.1038/pr.2017.227. Epub 2017 Oct 25

Half-life of plasma phytosterols in very low birth weight preterm infants on routine parenteral nutrition with vegetable oil-based lipid emulsions.

Pupillo D, Correani A, Biagetti C, D'Ascenzo R, Simonato M, Verlato G, Cogo P, Rocchi MBL, Carnielli VP. *Clin Nutr.* 2018 Feb;37(1):262-269. doi: 10.1016/j.clnu.2016.12.022. Epub 2016 Dec 30.

2019 *Preterm Infants' Pose Estimation With Spatio-Temporal Features.*

Moccia S, Migliorelli L, Carnielli V, Frontoni E. *IEEE Trans Biomed Eng.* 2020 Aug;67(8):2370-2380. doi: 10.1109/TBME.2019.2961448. Epub 2019 Dec 23

Pre-surgery urine metabolomics may predict late neurodevelopmental outcome in children with congenital heart disease.

Vedovelli L, Cogo P, Cainelli E, Suppiej A, Padalino M, Tassini M, Simonato M, Stellin G, Carnielli VP, Buonocore G, Longini M. *Heliyon.* 2019 Oct 1;5(10):e02547. doi: 10.1016/j.heliyon.2019.e02547. eCollection 2019 Oct

Urinary metabolomics reveals kynurenine pathway perturbation in newborns with transposition of great arteries after surgical repair.

Simonato M, Fochi I, Vedovelli L, Giambelluca S, Carollo C, Padalino M, Carnielli VP, Cogo P. *Metabolomics.* 2019 Oct 28;15(11):145. doi: 10.1007/s11306-019-1605-3

Dataset from spirometer and sEMG wireless sensor for diaphragmatic respiratory activity monitoring.

Biagetti G, Carnielli VP, Crippa P, Falaschetti L, Scacchia V, Scalise L, Turchetti C. *Data Brief.* 2019 Jul 5;25:104217. doi: 10.1016/j.dib.2019.104217. eCollection 2019

Hypertriglyceridemia and Intravenous Lipid Titration During Routine Parenteral Nutrition in Small Preterm Infants.

Correani A, Giretti I, Antognoli L, Monachesi C, Cogo P, D'Ascenzo R, Biagetti C, Carnielli VP. *J Pediatr Gastroenterol Nutr.* 2019 Nov;69(5):619-625. doi: 10.1097/MPG.0000000000002459

Tracing exogenous surfactant in vivo in rabbits by the natural variation of 13C.

Giambelluca S, Ricci F, Simonato M, Vedovelli L, Traldi U, Correani A, Casiraghi C, Storti M, Mersanne A, Cogo P, Salomone F, Carnielli VP. *Respir Res.* 2019 Jul 18;20(1):158. doi: 10.1186/s12931-019-1124-9

Effect of allopurinol in addition to hypothermia treatment in neonates for hypoxic-ischemic brain injury on neurocognitive outcome (ALBINO): study protocol of a blinded randomized placebo-controlled parallel group multicenter trial for superiority (phase III).

Maiwald CA, Annink KV, Rüdiger M, Benders MJNL, van Bel F, Allegaert K, Naulaers G, Bassler D, Klebermaß-Schrehof K, Vento M, Guimarães H, Stiris T, Cattarossi L, Metsäranta M, Vanhatalo S, Mazela J, Metsvaht T, Jacobs Y, Franz AR; ALBINO Study Group. *BMC Pediatr.* 2019 Jun 27;19(1):210. doi: 10.1186/s12887-019-1566-8.

European Consensus Guidelines on the Management of Respiratory Distress Syndrome - 2019 Update.

Sweet DG, Carnielli V, Greisen G, Hallman M, Ozek E, Te Pas A, Plavka R, Roehr CC, Saugstad OD, Simeoni U, Speer CP, Vento M, Visser GHA, Halliday HL. *Neonatology.* 2019;115(4):432-450. doi: 10.1159/000499361. Epub 2019 Apr 11.

Oxygen saturation/FIO2 ratio at 36 weeks' PMA in 1005 preterm infants: Effect of gestational age and early respiratory disease patterns.

Nobile S, Marchionni P, Gidiucci C, Correani A, Palazzi ML, Spagnoli C, Rondina C; Marche Neonatal Network, Carnielli VP. *Pediatr Pulmonol.* 2019 May;54(5):637-643. doi: 10.1002/ppul.24265. Epub 2019 Jan 27.

A rare mutation of retinoic acid receptor- β associated with lethal neonatal Matthew-Wood syndrome.

Nobile S, Pisaneschi E, Novelli A, Carnielli VP. *Clin Dysmorphol.* 2019 Apr;28(2):74-77. doi: 10.1097/MCD.0000000000000251

Does intravenous fish oil affect the growth of extremely low birth weight preterm infants on parenteral nutrition?

Biagetti C, Correani A, D'Ascenzo R, Bellagamba MP, Marchionni P, Antognoli L, Pompilio A, Cogo P, Carnielli VP. *Clin Nutr.* 2019 Oct;38(5):2319-2324. doi: 10.1016/j.clnu.2018.10.009. Epub 2018 Oct 16

2020 *Response to therapy among neonates with gastro-esophageal reflux is associated with esophageal clearance.*

Nobile S, Meneghin F, Marchionni P, Noviello C, Salvatore S, Lista G, Carnielli VP, Vento G. *Early Hum Dev.* 2021 Jan;152:105248. doi: 10.1016/j.earlhumdev.2020.105248. Epub 2020 Nov 10.

Flow-synchronized NIPPV with double-inspiratory loop cannula: An in vitro study.

Moretti C, Lista G, Carnielli V, Gizzi C. *Pediatr Pulmonol.* 2021 Feb;56(2):400-408. doi: 10.1002/ppul.25161. Epub 2020 Nov 19

The Italian arm of the PREPARE study: an international project to evaluate and license a maternal vaccine against group B streptococcus.

Berardi A, Cassetti T, Creti R, Vocale C, Ambretti S, Sarti M, Facchinetti F, Cose S; Prepare Network, Heath P, Le Doare K. *Ital J Pediatr.* 2020 Oct 28;46(1):160. doi: 10.1186/s13052-020-00923-3

The babyPose dataset.

Migliorelli L, Moccia S, Pietrini R, Carnielli VP, Frontoni E.

Data Brief. 2020 Sep 26;33:106329. doi: 10.1016/j.dib.2020.106329. eCollection 2020 Dec

Inhaled nitric oxide (iNO) for preventing prematurity-related bronchopulmonary dysplasia (BPD): 7-year follow-up of the European Union Nitric Oxide (EUNO) trial.

Greenough A, Decobert F, Field D, Hallman M, Hummler HD, Jonsson B, Sánchez Luna M, Van Overmeire B, Carnielli VP, Potenziano JL, Mercier JC. J Perinat Med. 2020 Sep 7;49(1):104-110. doi: 10.1515/jpm-2020-0164.

Lung recruitment before surfactant administration in extremely preterm neonates with respiratory distress syndrome (IN-REC-SUR-E): a randomised, unblinded, controlled trial.

Vento G, Ventura ML, Pastorino R, van Kaam AH, Carnielli V, Cools F, Dani C, Mosca F, Polglase G, Tagliabue P, Boni L, Cota F, Tana M, Tirone C, Aurilia C, Lio A, Costa S, D'Andrea V, Lucente M, Nigro G, Giordano L, Roma V, Villani PE, Fusco FP, Fasolato V, Colnaghi MR, Matassa PG, Vendettuoli V, Poggi C, Del Vecchio A, Petrillo F, Betta P, Mattia C, Garani G, Solinas A, Gitto E, Salvo V, Gargano G, Balestri E, Sandri F, Mescoli G, Martinelli S, Ilardi L, Ciarmoli E, Di Fabio S, Maranella E, Grassia C, Ausanio G, Rossi V, Motta A, Tina LG, Maiolo K, Nobile S, Messner H, Staffler A, Ferrero F, Stasi I, Pieragostini L, Mondello I, Haass C, Consigli C, Vedovato S, Grison A, Maffei G, Presta G, Perniola R, Vitaliti M, Re MP, De Curtis M, Cardilli V, Lago P, Tormena F, Orfeo L, Gizzi C, Massenzi L, Gazzolo D, Strozzi MCM, Bottino R, Pontiggia F, Berardi A, Guidotti I, Cacace C, Meli V, Quartulli L, Scorrano A, Casati A, Grappone L, Pillow JJ. Lancet Respir Med. 2021 Feb;9(2):159-166. doi: 10.1016/S2213-2600(20)30179-X. Epub 2020 Jul 17

Oxygen saturation to fraction of inspired oxygen ratio in preterm infants on routine parenteral nutrition with conventional or fish oil containing lipid emulsions.

Correani A, Dell'Orto V, Nobile S, Antognoli L, Marchionni P, Giretti I, Monachesi C, Rondina C, Palazzi ML, Biagetti C, D'Ascenzo R, Pompilio A, Simonato M, Cogo P, Burattini I, Carnielli VP. Pediatr Pulmonol. 2020 Sep;55(9):2377-2382. doi: 10.1002/ppul.24938. Epub 2020 Jul 21

Less-invasive surfactant administration in sub-Saharan Africa - Authors' reply.

De Luca D, Shankar-Aguilera S, Centorrino R, Fortas F, Yousef N, Carnielli VP.

Lancet Child Adolesc Health. 2020 Jun;4(6):e14. doi: 10.1016/S2352-4642(20)30112-7.

Blood urea in preterm infants on routine parenteral nutrition: A multiple linear regression analysis.

Giretti I, Correani A, Antognoli L, Monachesi C, Marchionni P, Biagetti C, Bellagamba MP, Cogo P, D'Ascenzo R, Burattini I, Carnielli VP. Clin Nutr. 2021 Jan;40(1):153-156. doi: 10.1016/j.clnu.2020.04.039. Epub 2020 May 6

Obstetric network reorganization during the COVID-19 pandemic: Suggestions from an Italian regional model.

Giannubilo SR, Giannella L, Delli Carpini G, Carnielli VP, Ciavattini A; Regional Operative Group for the Health Emergencies (GORES). Eur J Obstet Gynecol Reprod Biol. 2020 Jun;249:103-105. doi: 10.1016/j.ejogrb.2020.04.062. Epub 2020 Apr 30

Surfactant-secreted phospholipase A2 interplay and respiratory outcome in preterm neonates.

De Luca D, Shankar-Aguilera S, Autilio C, Raschetti R, Vedovelli L, Fitting C, Payré C, Jeammet L, Perez-Gil J, Cogo PE, Carnielli VP, Lambeau G, Touqui L. Am J Physiol Lung

Cell Mol Physiol. 2020 Jul 1;319(1):L95-L104. doi: 10.1152/ajplung.00462.2019. Epub 2020 May 13

Less invasive surfactant administration: a word of caution.

De Luca D, Shankar-Aguilera S, Centorrino R, Fortas F, Yousef N, Carnielli VP. Lancet Child Adolesc Health. 2020 Apr;4(4):331-340. doi: 10.1016/S2352-4642(19)30405-5. Epub 2020 Feb 1

Low socio-economic conditions and prematurity-related morbidities explain healthcare use and costs for 2-year-old very preterm children.

Meregaglia M, Croci I, Brusco C, Herich LC, Di Lallo D, Gargano G, Carnielli V, Zeitlin J, Fattore G, Cuttini M. Acta Paediatr. 2020 Sep;109(9):1791-1800. doi: 10.1111/apa.15183. Epub 2020 Feb 6

Preterm Infants' Pose Estimation With Spatio-Temporal Features.

Moccia S, Migliorelli L, Carnielli V, Frontoni E. IEEE Trans Biomed Eng. 2020 Aug;67(8):2370-2380. doi: 10.1109/TBME.2019.2961448. Epub 2019 Dec 23

2021 *Is intravenous fish oil associated with the neurodevelopment of extremely low birth weight preterm infants on parenteral nutrition?*

Biagetti C, Correani A, D'Ascenzo R, Ferretti E, Proietti C, Antognoli L, Giretti I, Pompilio A, Cogo P, Carnielli VP. Clin Nutr. 2021 May;40(5):2845-2850. doi: 10.1016/j.clnu.2021.02.036. Epub 2021 Mar 10

Personalized Medicine for the Management of RDS in Preterm Neonates.

De Luca D, Autilio C, Pezza L, Shankar-Aguilera S, Tingay DG, Carnielli VP. Neonatology. 2021;118(2):127-138. doi: 10.1159/000513783. Epub 2021 Mar 18

Lung Ultrasound Score Progress in Neonatal Respiratory Distress Syndrome.

Raimondi F, Migliaro F, Corsini I, Meneghin F, Dolce P, Pierri L, Perri A, Aversa S, Nobile S, Lama S, Varano S, Savoia M, Gatto S, Leonardi V, Capasso L, Carnielli VP, Mosca F, Dani C, Vento G, Lista G. Pediatrics. 2021 Mar 9:e2020030528. doi: 10.1542/peds.2020-030528. Online ahead of print

Chorioamnionitis alters lung surfactant lipidome in newborns with respiratory distress syndrome.

Giambelluca S, Verlato G, Simonato M, Vedovelli L, Bonadies L, Najdekr L, Dunn WB, Carnielli VP, Cogo P. Pediatr Res. 2021 Feb 2. doi: 10.1038/s41390-021-01371-3. Online ahead of print

Hypertriglyceridemia and lipid tolerance in preterm infants with a birth weight of less than 1250 g on routine parenteral nutrition.

Giretti I, D'Ascenzo R, Correani A, Antognoli L, Monachesi C, Biagetti C, Pompilio A, Marinelli L, Burattini I, Cogo P, Carnielli VP. Clin Nutr. 2021 Jan 11:S0261-5614(21)00009-1. doi: 10.1016/j.clnu.2020.12.039. Online ahead of print

Surfactant lung delivery with LISA and InSurE in adult rabbits with respiratory distress.

Ricci F, Bresesti I, LaVerde PAM, Salomone F, Casiraghi C, Mersanne A, Storti M, Catozzi C, Tigli L, Zecchi R, Franceschi P, Murgia X, Simonato M, Cogo P, Carnielli V, Lista G. Pediatr Res. 2021 Jan 15:1-8. doi: 10.1038/s41390-020-01324-2. Online ahead of print.

Lung Ultrasound to Monitor Extremely Preterm Infants and Predict Bronchopulmonary Dysplasia. A Multicenter Longitudinal Cohort Study.

Loi B, Vigo G, Baraldi E, Raimondi F, Carnielli VP, Mosca F, De Luca D. Am J Respir Crit Care Med. 2021 Jun 1;203(11):1398-1409. doi: 10.1164/rccm.202008-3131OC

Response to therapy among neonates with gastro-esophageal reflux is associated with esophageal clearance.

Nobile S, Meneghin F, Marchionni P, Noviello C, Salvatore S, Lista G, Carnielli VP, Vento G. *Early Hum Dev.* 2021 Jan;152:105248. doi: 10.1016/j.earlhumdev.2020.105248. Epub 2020 Nov 10

Flow-synchronized NIPPV with double-inspiratory loop cannula: An in vitro study.

Moretti C, Lista G, Carnielli V, Gizzi C. *Pediatr Pulmonol.* 2021 Feb;56(2):400-408. doi: 10.1002/ppul.25161. Epub 2020 Nov 19

Lung recruitment before surfactant administration in extremely preterm neonates with respiratory distress syndrome (IN-REC-SUR-E): a randomised, unblinded, controlled trial.

Vento G, Ventura ML, Pastorino R, van Kaam AH, Carnielli V, Cools F, Dani C, Mosca F, Polglase G, Tagliabue P, Boni L, Cota F, Tana M, Tirone C, Aurilia C, Lio A, Costa S, D'Andrea V, Lucente M, Nigro G, Giordano L, Roma V, Villani PE, Fusco FP, Fasolato V, Colnaghi MR, Matassa PG, Vendettuoli V, Poggi C, Del Vecchio A, Petrillo F, Betta P, Mattia C, Garani G, Solinas A, Gitto E, Salvo V, Gargano G, Balestri E, Sandri F, Mescoli G, Martinelli S, Ilardi L, Ciarmoli E, Di Fabio S, Maranella E, Grassia C, Ausanio G, Rossi V, Motta A, Tina LG, Maiolo K, Nobile S, Messner H, Staffler A, Ferrero F, Stasi I, Pieragostini L, Mondello I, Haass C, Consigli C, Vedovato S, Grison A, Maffei G, Presta G, Perniola R, Vitaliti M, Re MP, De Curtis M, Cardilli V, Lago P, Tormena F, Orfeo L, Gizzi C, Massenzi L, Gazzolo D, Strozzi MCM, Bottino R, Pontiggia F, Berardi A, Guidotti I, Cacace C, Meli V, Quartulli L, Scorrano A, Casati A, Grappone L, Pillow JJ. *Lancet Respir Med.* 2021 Feb;9(2):159-166. doi: 10.1016/S2213-2600(20)30179-X. Epub 2020 Jul 17

Blood urea in preterm infants on routine parenteral nutrition: A multiple linear regression analysis.

Giretti I, Correani A, Antognoli L, Monachesi C, Marchionni P, Biagetti C, Bellagamba MP, Cogo P, D'Ascenzo R, Burattini I, Carnielli VP. *Clin Nutr.* 2021 Jan;40(1):153-156. doi: 10.1016/j.clnu.2020.04.039. Epub 2020 May 6