

The Collection in Medicine Articles

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Received: June 28, 2017; **Published:** July 12, 2017



Preface

The ebook is in honor presented my academic medicine articles in collection, which includes the 30 first-authored publishes at the peer-viewed journals since 1995-2017, the articles have supported from publishers including *American Journal of Physiology, Lung Cellular and Molecular Physiology; American Journal of Respiratory Cell and Molecular biology; Journal of Cellular Biochemistry; MedCrave, Journal of Pediatrics and Neonatal Care; Verizona Publisher, Journal of Pharma and Pharmaceutical Sciences; and National Medical Journal of China.*

The Articles in the collection have involved in the medical area of research study and clinical observation at Cell biology, Gene Molecular, Oxidative Stress, Biochemistry, Biomedicine, Pulmonary, Emergency Medicine, Pediatrics, Neonatology, Pharmacology.

The Articles in the collection are at the types of Original Articles, Editorial, Opinion, Case Report and Review, some of them are at the higher-qualified to read and study, also from them it can reflect Science logical and Philosophy thinking.

I would therefore to contribute the editions to the ebook,

Dr. Yan Wang,

May 19, 2017 in New York City

Chapter in List

1. Editorial: The Advance Treatment on Neonatal Respiratory Distress Syndrome, MedCrave Press, Journal of Pediatrics and Neonatal Care, 6(5): 00262, 2017.

(Published in the United State of America)

The Short Description ahead:

The editorial article is written in 2017 on invitation from MedCrave, Journal of Pediatrics and Neonatal Care, as I am in the Editorial Board of the Journal. The thesis of the article is about the Advance Treatment on Neonatal Respiratory Distress Syndrome, I am also Pediatrician in Neonatology, I have summarized the current advance treatment on Neonatal Respiratory Distress Syndrome, and combined with my working experience in Miami University Medical School, Shanghai Fudan University and Children Hospitals in order that I worked out the article.

2. Review: Progress of Gene Target Therapy in Clinical Application, World Clinical Drugs, 38 (4): 288-S12, 2017.

[Published in China]

The Short Description ahead:

The review article has published in 2017 in Chinese Version, about gene therapy, there is more technique, research and clinical trial study, I am interested in gene pharmacy in clinical application, so I figure out the article on the thesis of Progress of Gene Target Therapy in Clinical Application. For gene therapy, I have begun the study since 2002 when I have worked at the University of Pennsylvania, the research results have presented as original article and new release at Journal and Conference in Experimental Biology 2003 in San Diego.

3. Editorial: ECMO in Emergency Medicine, Open Access Journal of Surgery, Juniper Publishers, 1(3): 2016.

(Published in the United State of America)

The Short Description ahead:

ECMO is the extracorporeal membrane oxygenation in the aim to provide extracorporeal life support in both cardiac and respiratory function since 1953, it is an important therapy in Emergency Medicine for patients required in Department of Surgery or Cardiovascular and Intensive Care Unit. I am a special Emergency Doctor since 1993 at Shanghai Medical College to Fudan University, at there, ECMO has applied in PICU and post cardiovascular surgery, the experience for me was impressed by ECMO is valuable to clinical for varied critical situation, also with more optional development, ECMO will have more effective results to clinical therapy.

4. Editorial: The risk factors face to neonatal development, Journal of Pediatrics and Neonatal Care (MedCrave), 4(3): 00139, 2016

(Published in the United State of America)

The Short Description ahead:

After birth, the first-time period in human is neonatal, what are the risk factors to affect the neonatal development as in gene or hereditary is important related with the future of a person, therefore, the editorial article on the thesis of the risk factors face to neonatal development is in the role to review the risk factors and show the guidance to neonatal development, the article published at Journal of Pediatrics and Neonatal Care i 2016.

5. Review: The Mechanism of Fever and its Clinical Management, VERIZONA PUBLISHER Journal of Pharma and Pharmaceutical Sciences, 1(2), 2015.

(Published in the United of Kingdom)

The Short Description ahead:

Fever is the one of popular presentation for many diseases in children, as upper respiratory infection or authorist; the article is belong to the type of mini review, and published in the United of Kingdom at the Journal of Pharma and Pharmaceutical Sciences, from the analyze fever's development, central nerve mechanism, drug functionalization and clinical observation, I worked out the article, the thesis is re-considered and valuable,

6. Editorial: Medical collaboration in National Trust Healthy will more affect on critical care, *Austin Critical Care Journal*, 1(1): 2, 2014.
(Published in the United State of America)

The Short Description ahead:

In 2014, I worked at Imperial College London in the United of Kingdom, as being Sponsored Researcher and hold PBS Tier 5 GAE VISA for national Scholar exchange, I was thinking much of national affection on Medicine, the thesis is worked on Medical collaboration in National Trust Healthy will more affect on critical care, the article was wrote in London, and I submitted to United States for Published at the *Austin Critical Care Journal*, since America is my Immigration Nation. For Medical collaboration in National Trust Healthy, what it is the distance to buildup trust and medical collaboration among national or area, the article is give some example to thinking.

7. Opinion: The consideration of viral vector in gene therapy to potential lung injury, *Journal of Pediatrics and Neonatal Care*, 1(2):00009, 2014.
(Published in the United State of America).

The Short Description ahead:

About the role of viral vector in gene therapy, I have thesis article on the consideration of viral vector in gene therapy to potential lung injury. Viral vector is to carry the targetted gene into DNA construct and transfer in vivo, what is the effecton for viral vector after transfection, the result is in evaluable. In 2003, the related observation of my research has presented in Experimental Biology Conference, San diego, California, and it has elected by American Physiology Society for News Release by the Press in new interview type at the conference, later time, the News was posted at the Reuters Health website (Last updated: 2003-04-15). Till now, gene therapy has made progress, review the development, I figured out the article in Opinion type.

8. Original Article: Effect of antioxidant enzyme Prdx6 protecting lung alveolar epithelial type II cells counteracting hydrogen peroxide induced apoptosis, *Journal of Applied Clinical Pediatrics*, 27 (16): 1278-1281, 2012.
[Published in China]

The original article is about cell biology and at molecular level to study the thesis of antioxidant enzyme Prdx6 protecting lung alveolar epithelial type II cells in oxidative stress, the project is under the American NIH support. The research result firstly presented at EB conference in 2006, and published in English version at the *Journal of Cellular Biochemistry* in 2008, in order to introduce modern Medicine in American, more data added and I published the article in Chinese version.

9. Case Report: Analysis of the clinical features and treatment of 50 cases Tourette Syndrome, *China Medicine Hygiene*, 13 (2): 1-3, 2012.
[Published in China]

The Short Description ahead:

Since 2011, I have worked at Shanghai Hong Ci Children's Hospital and take the positions at Attending Doctor in the Department of Pediatrics, Professor and Director to affiliated Institute and the Medical Services Section in hospital, for supporting the development of the hospital, I observated in one year and summarized 50 cases children Tourette Syndrome wrote the Case Report: Analysis of its clinical features and treatment.

10. Review: Epidemiology, prevention and treatment on Hand. Foot. Mouth Disease. *National Medical Journal of China*, 89(24): 1724-1725, 2009.
[Published in China]

The Short Description ahead:

Since 2007, I got back to hometown in China from United States of America, and took the positions in Committee Member and professor in the 14th Pediatrics Respiratory Group to the Chinese Medical Association, meanwhile, I am an Attending Doctor in the Department of Pulmonary at Shanghai Children's Hospital. By the editorial invitation from National Medical Journal of China, I wrote the article on Review: Epidemiology, prevention and treatment on Hand. Foot. Mouth Disease. After 2008, I have take the rest time to get recovery from tumor surgery, also It is critical time to prepare my documents to return United States of America by immigration procedure.

11. Review: Severe respiratory diseases and acute lung injury, the Journal of Applied Clinical Pediatrics, 24 (4): 245-247, 2009.
[Published in China]

The Short Description ahead:

Severe respiratory diseases in pathophysiology is acute lung injury with blood microcirculation dysfunction or cell structure damage, as a pulmonary special doctor, I reviewed the phenomenon of severe respiratory diseases develop to acute lung injury, and hopeful more understand on basis medicine, more easy go to clinical guidance, it was at the first year after I had recovered from surgery for healthy.

12. Original Article: Antioxidative role of peroxiredoxin 6 in acute lung injury, Chinese Journal of Pediatrics, 46 (10): 739-744, 2008.
[Published in China]

The Short Description ahead:

In order to introduce to the thesis of Antioxidative role of peroxiredoxin 6 in acute lung injury, I wrote to the Chinese version article and published at Chinese Journal of Pediatrics in 2008. For the advancement treatment to acute lung injury, there are more optional at emergency situation or at recovery time such as general treatment, Nitric Oxide inhaled therapy or antioxidative interruption to reduce the lung injury.

13. Review: The research current and therapy advancement on acute lung injury for Children, World Clinical Drugs, 29 (1): 13-16, 2008.
[Published in China]

The Short Description ahead:

The acute lung injury is the syndrome which related with many emergency diseases, during 2007 - 2008, I have been an Attending Doctor and worked Shanghai Children's Hospital, among the time in patients treatment and some hospital management I wrote the review article by invitation from World Clinical Drugs, the thesis was on the research current and therapy advancement on acute lung injury for Children. In 2008, it was at first working year after I returned to hometown since 2000 I have worked in United States of America for 7 years.

14. Original Article: Peroxiredoxin 6 as an antioxidant enzyme: Protect of lung alveolar epithelial type 2 cells from H₂O₂-induced oxidative stress, Journal of Cellular Biochemistry, 104 (4): 1274-1285, 2008.
(Published in the United State of America).

The Short Description ahead:

About thesis study of Peroxiredoxin 6 as an antioxidant enzyme to protect of lung alveolar epithelial type 2 cells from H₂O₂-induced oxidative stress, it was at the level of cell biology and molecular to observe lung alveolar epithelial type 2 cells defend oxidative stress. The type 2 cell has the function to secret surfactant and shift its cell type to lung alveolar epithelial type 1 cell at situation, the study methods were special from cellular biochemistry as to measure lipid level inside cells. The project was finished in 2007, and got final version published in 2008 at the Journal of Cellular Biochemistry,

15. Original Article: Comparison of Peroxiredoxin 6 and GSH Peroxidase 1 Null Mice on Sensitivity to Oxidative Stress, FASEB Journal 21 (6): A1142 (869.1) Part 2, 2007.
(Published in the United State of America).

The Short Description ahead:

The project was on two antioxidant enzymes to oxidative stress study, we have cooperation investigator from Institute of Environmental Health Sciences at Wayne State University, he has major study on GSH Peroxidase 1 and built-up the GSH gene deficiency animal. The project data has presented at the Experimental Biology Conference, Washington DC in April 2007, also the abstract type article was collected at FASEB Journal, 2007.

16. Original Article: Transgenic mice overexpressing Peroxiredoxin 6 show increased resistance to lung injury in hyperoxia, *American Journal of Respiratory Cell and Molecular Biology*, 34: 481-486, 2006.

(Published in the United State of America).

The Short Description ahead:

For animal model study, it has important role to study some diseases replaced human, since animal model study can build up strict situation to research main clue to induce disease as hyperoxia model to study acute lung injury or diabetes model to study diabetes disease. The original article is the thesis about animal model study for overexpressing Peroxiredoxin 6 show increased resistance to lung injury in hyperoxia, which published at *American Journal of Respiratory Cell and Molecular Biology* in 2006. The working has American NIH funding support and I finished it during the time that I have worked at the Institute for Environmental Medicine, the Center of Lung Biology, University of Pennsylvania School of Medicine.

17. Original Article: Peroxiredoxin 6 gene-targeted mice show increased lung injury with paraquat-induced oxidative stress, *Antioxidants and Redox Signaling*, 8: 229-237, 2006.

(Published in the United State of America).

The Peroxiredoxin 6 is a novel antioxidant enzyme, it has important role in lung biology study; for gene target animal, it is using gene engineer technique to insert target gene to its gene sequence in order to change its biology function. The thesis of Peroxiredoxin 6 with paraquat-induced oxidative stress was my original research article which summarized my working in 2004-2006 at the University of Pennsylvania School of Medicine, at that year 2006, I have been Research Associate at University of Pennsylvania for 2 years, and prepared to next faculty appointment.

18. Original Article: Lung injury and mortality with hyperoxia are increased in peroxiredoxin 6 gene-targeted mice, *Journal of Free Radicals in Biology and Medicine*, 37: 1736-1743, 2004.

(Published in the United State of America).

The Short Description ahead:

The Peroxiredoxin 6 is a novel antioxidant enzyme, it has important role in lung biology study; for gene target animal, it is using gene engineer technique to insert target gene to its gene sequence in order to change its biology function. The thesis of Lung injury and mortality with hyperoxia with peroxiredoxin 6 gene-targeted animal which was my original research article which summarized my working in 2003-2004 at the University of Pennsylvania School of Medicine and published at *Journal of Free Radicals in Biology and Medicine* at that year 2004, I finished my near 5-year Postdoctoral training in United States of America since working at Department of Pediatrics, University of Miami School of Medicine and Department of Emergency Medicine, Albert Einstein Medical Center, Jefferson Health System.

19. Original Article: Adenovirus-mediated transfer of the 1-cys peroxiredoxin gene to mouse lung protects against hyperoxic injury, *American Journal of Physiology, Lung Cellular and Molecular Physiology*, 286: L1188-L1193, 2004.

(Published in the United State of America)

The Short Description ahead:

In this article on Adenovirus-mediated transfer of the 1-cys peroxiredoxin gene is my first project on gene therapy, it started in 2002

and lasted 2 years to get finish as publishing. The difficult points for the project were to insert and confirm adenovirus as being a vector can carrying targeted gene of 1-cys peroxiredoxin gene into its DNA sequence and later transfected the targeted gene into animal, the research was used at the model of hyperoxic injury, The article was published at American Journal of Physiology, Lung Cellular and Molecular Physiology.

20. Original Article: Effect of L-arginine Therapy on Serum Nitric Oxide and Endothelin in Acute Hypoxic, Journal of Fudan University (Medical Science) 28 (2): 110-112, 2001.

[Published in China]

The Short Description ahead:

I have my Doctorate graduated in 1998 with Philosophy Degree (Ph.D.) in Respiratory and Emergency Medicine of Pediatrics at FuDan University in Shanghai, my study thesis was on Nitric Oxide and Endothelin in respiratory biology and diseases in children. The article about L-arginine therapy was to observe how L-arginine as the metabolic substrate of Nitric Oxide to affect Nitric Oxide and Endothelin in Acute Hypoxic. I submitted the manuscript to the Journal of Fudan University (Medical Science), which just before I left China to United States of America as Medical Scholar in 2000, there, so I don't have chance to see it published for a longer time. In 2006, I was online to review medical article, I found my paper already published in 2001 with fully accepted, certainly in 2006, I visited the Journal Press located at Fudan University to have one original journal with the paper on for saving in fold.

21. Original Article: Effect of PaCO₂ on plasma ET and NO level in children with pneumonia respiratory failure, The Journal of Clinical Pediatrics 19 (1):18, 27, 2001.

[Published in China]

The Short Description ahead:

For pneumonia respiratory failure, the clinical laboratory measurement usually present higher PaCO₂ concentration in blood; it may affect the cardiovascular function; NO (Nitric Oxide) is the molecular has function to relax vascular and ET(Endothelin) has function to vasoconstriction, so in the thesis of Effect of PaCO₂ on plasma ET and NO level in children with pneumonia respiratory failure was to study the relationship among the effect of PaCO₂ high concentration to vascular function presented as measure the change of NO and ET level in blood in children with pneumonia respiratory failure.

22. Case Report: The changes of blood plasma Nitric Oxide and Endothelin in children pneumonia with respiratory failure and its value, Pediatric Emergency Medicine, 6 (4):159-161, 1999.

[Published in China]

The Short Description ahead:

In order to observe the thesis of the changes of blood plasma Nitric Oxide and Endothelin in children pneumonia with respiratory failure and its value, I observed about 50 patients in case report, and separated them into two groups, one was neonatal group, another was infantile group, there presented difference among groups compared with normal children. The paper final published at Journal of Pediatric Emergency Medicine in 1999.

23. Original Article: Interrelation between Nitric Oxide and Endothelin-1 in an experimental acute hypoxia in rats and its intervention, Chinese Medical Journal (English version), 112 (4): 363-365, 1999.

(Published in China)

The Short Description ahead:

In thesis article was my first English version paper, I started writing it in 1996 and the working was related with my Ph.D graduated the-

sis(1998) on study of Nitric Oxide and Endothelin-1 in lung biology and diseases. After several time revised, the paper published at the Journal of Chinese Medical Journal (English version), 112 (4): 363-365, 1999. The paper with the Journal can be searched at the website of Pubmed, and I have read the abstract of the paper at the Pubmed online in University of Miami in 2000 when I worked at UM.

24. Original Article: Direct measurement of Blood NO_2^- level in normal children, The Journal of Clinical Pediatrics, 16 (4):275-276, 1998. [Published in China]

The Short Description ahead:

For Nitric oxide study in 1995, the difficult point is to build-up the standard measurement to detect the Nitric Oxide level so that it could respentive some difference in times or groups at research. In my study, I chose the measurement of chemical or RIA detection to direct measurement of NO_2^- level in blood, this step was important to go through to the next research projects on Nitric oxide study for experimental or clinical observation.

25. The influence of blood serum nitric oxide and endothelin in infant pneumonia respiratory failure, Journal of Applied Clinical Pediatrics, 13 Supplement: S34-35, 1998, Original Article [Published in China]

The Short Description ahead:

The thesis working started in 1996, and got more result data in 1997, so I summarized them in Abstract article type and submitted it to a conference of the 5th Chinese Pediatrics Symposium on Emergency Treatment of Critical Diseases in Oct 1998, GuiLin. Later time, the article was published at the Journal of Applied Clinical Pediatrics by the conference and the Journal's 13 Supplement was just opening for the conference; I attended the meeting and invited to give speech in Oral Presentation at the Symposium.

26. Original Article: Studies of interrelationship between nitric oxide and endothelin-1 in experimental acute hypoxia and its intervention, Proceeding of Academic Papers of Postgraduations for 70-year anniversary of Shanghai medical College, Page: 149-152, 1997. [Published in China]

The Short Description ahead:

In 1997, Shanghai Medical College to Fudan University has prepared its 70-year anniversary since built-up, I was received invitation from College, so I wrote the thesis article including my working on the Studies of interrelationship between nitric oxide and endothelin-1 in experimental acute hypoxia and its intervention. The article has been successful collected into the book of Proceeding of Academic Papers of Postgraduations for 70-year anniversary of Shanghai Medical College. I have begun postgraduation study in 1993 at Shanghai Medical College, after the Master postgraduation study in 1995, I have obtained the chance to direct begin Ph.D postgraduation study in 1995, and I have graduated in 1998 with Ph.D Graduation Certificate and Degree Certificate. In 2000 within near 2 years after Ph.D graduation, I entered the United States of America as Scholar in Medicine at University of Miami, Florida.

27. Original Article: Effects of dexamethasone therapy on Nitric Oxide synthase activity in acute hypoxic rat pulmonary vascular endothelium, Acta Academic Medicine Shanghai, Supplement (24): S27-29, 1997. [Published in China]

The Short Description ahead:

Dexamethasone therapy is on the signal pathway to affect Nitric Oxide synthase activity, I used the therapy to observe the function difference in pulmonary vascular endothelium at animal model of acute hypoxic, the thesis article was published at Acta Academic Medicine Shanghai, Supplement (24): S27-29 in 1997. The working was one important part for the series study on Nitric Oxide biology function in lung and pulmonary hypertension.

28. Review: The role of Endothelin-1 on respiratory diseases, Journal of Modern Pediatrics, 2 (1):58-59, 1997.
[Published in China]

The Short Description ahead:

The view article of the role of Endothelin-1 on respiratory diseases was written for being one compare group to Nitric Oxide study. The original design was separated into two parts as clinical observation and basic research study in order to study lung biology with cardiovascular function and respiratory diseases in children. The article was published at Journal of Modern Pediatrics and it representative the role to build-up one of the basic step to make golden pyramid in the study.

29. Review: L-Arginine in the pathway of Nitric Oxide metabolism and respiratory diseases, Journal of Pediatric Emergency Medicine, 4 (1): 38-39, 1997.
[Published in China]

The Short Description ahead:

The study of Nitric Oxide was more popular in the world wide since 1990, as it being the smaller molecular in biomedicine, I found its value in respiratory diseases. Under my Ph.D study grant sponsor in 1995 from Shanghai Fudan University Medical School, the thesis on Nitric Oxide with respiratory diseases in Children has obtained achievement. The review article here about L-Arginine in the pathway of Nitric Oxide metabolism and respiratory diseases was in preparing knowledge on Nitric Oxide study for the following couple years.

30. Philosophy thinking: Science to common life, Posted in the My URL in Linkedin.com, Apr 2, 2017.
(Published in the United State of America)

The Short Description ahead:

About Medicine, it is major sustain for Science and Society, and the Philosophy with Medicine is precise, logical and humanity. My article here about Science to common life is one example, it bases on my philosophy thinking on Medicine, therefore, the aim is so far so near to connect Science to common life.

Volume 3 Issue 3 July 2017

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