

CURRICULUM VITAE



Name: Assistant Professor Pornpen Srisawasdi
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Education

1985 B.Sc. (Medical Technology) Mahidol University
1997 M.Sc. (Clinical Pathology) Mahidol University
2004 Ph.D (Clinical Pathology) Mahidol University

Position Assistant Professor

Memberships

1987 to present The Medical Technologists Association of Thailand
2003 to present American Association of Clinical Chemistry

Grant

1999 The Royal Golden Jubilee Ph.D. Program (Student)
2008 Faculty of Medicine, Ramathibodi Hospital, Mahidol University; Grant number:
51054/2008
2010 Thailand Research Fund (Research Grant for New Scholar, MRG)

Training

2003 Ph.D student training at Department of Pathology and Laboratory
Medicine, Dallas Veterans Affairs Medical Center, Dallas, Texas,
USA

Professional Publications

Patents:

1. Lolekha PH, **Srisawasdi P.** Composition of Reagents for the Cholesterol Determination by the Enzymatic Endpoint Method Using *Cellulomonas* or *Brevibacterium* Cholesterol Oxidase (in processing)
2. Lolekha PH, **Srisawasdi P.** Composition of Reagents for the Cholesterol Determination by the Enzymatic Kinetic Method Using *Brevibacterium* Cholesterol Oxidase (in processing)

3. Lolekha PH, **Srisawasdi P.** Composition of Reagents for the Cholesterol Determination by the Enzymatic Kinetic Method Using *Candia*, Porcine Pancreas or Bovine Pancreas Cholesterol Esterase (in processing)

Book: **1. Pornpen Srisawasdi.** Clinical chemistry for liver and pancreas diseases. In Thamrong Jirajariyavej ed. Clinical Pathology, 2006:409-424.
2. Pornpen Srisawasdi. Diabetes Mellitus and Laboratory Diagnosis. In Thamrong Jirajariyavej ed. Clinical Pathology, 2006: 425-442.

Proceeding: **1. Pornpen Srisawasdi.** Advance Technology in Laboratory Medicine: LDL Subclass Analysis. In The Celebrations on the Auspicious Occasion of His Majesty the King's 80th Birthday Anniversary 5th December 2007. Chitjaremkul A editor, Bangkok: 663-664.

Review articles: **1. Pornpen Srisawasdi.** Glycated hemoglobin standardization. J Med Tech Assoc of Thailand 2007; 35: 1763-1766.
2. Pornpen Srisawasdi. Advanced Low Density Lipoprotein Testing. J Med Tech Assoc of Thailand 2007; 35: 1903-1909.
3. Pornpen Srisawasdi. Recent Advances in Hemoglobin A1C. J Med Tech Assoc of Thailand 2008; 36: 2485-2489.
4. Upsorn Chaichanacareonkul, **Pornpen Srisawasdi.** Diabetes Diagnostic Update. J Med Tech Assoc of Thailand 2010; 38: 3185-3189.

Research Articles:

1. Lolekha PH, **Nitipaichit P.** Alanine aminotransferase reagent kit prepared by the university hospital laboratory. J Med Tech Assoc of Thailand 1988;16; 25-30
2. Lolekha PH, **Nitipaichit P.** User-defined serum aspartate and alanine aminotransferase, cholesterol, triglycerides, urea and uric acid for the Beckman Synchron CX4/5 using Ames Sera-Pak reagents. J. Clin Lab Analysis 1992, 6; 245-56
3. Lolekha HP, Jaruthunyaluck S, **Srisawasdi P.** Deproteinization of serum: another best approach to elimination all forms of bilirubin interference on serum creatinine by the kinetic Jaffe reaction. J. Clin Lab Anal 2001;15: 116-21
4. Lolekha PH, **Srisawasdi P,** Jearanaikoon P, Wetprasit N, Sriwanthana B, Kroll MH. Performance of four sources of cholesterol oxidase for serum cholesterol determination by the enzymatic endpoint method. Clin Chim Acta 2004; 339: 135-145.

5. **Srisawasdi P**, Jearanaikoon P, Kroll MH., Lolekha PH. Performance Characteristics of Cholesterol Oxidase for Kinetic Determination of Total Cholesterol. *J. Clin Lab Anal* 2005; 19: 247-252.
6. **Srisawasdi P**, Jearanaikoon P, Wetprasit N, Sriwanthana B, Kroll MH, Lolekha PH. Application of Streptomyces and Brevibacterium cholesterol oxidase for total serum cholesterol assay by the enzymatic kinetic method. *Clin Chim Acta* 2006; 372: 103-111.
7. **Srisawasdi P**, Kroll MH, Lolekha PH. Advantages and Disadvantages of Serum Cholesterol Determination by the Kinetic versus the Endpoint Method. *Am J Clin Pathol* 2007; 127: 906-18.
8. Kroll MH, **Srisawasdi P**. The clearance of BNP modeled using the NT-proBNP-BNP relationship. *Biosystems* 2007; 88: 147-55.
9. Kroll MH, Twomey PJ, **Srisawasdi P**. Using the single-compartment ratio model to calculate half-life, NT-proBNP as an example. *Clin Chim Acta* 2007; 380: 197-202.
10. **Srisawasdi P**, Chaichanajaremkul U, Teerakanjana N, Kroll MH. Implementation of *Cellulomonas* Cholesterol Oxidase for Total Serum Cholesterol Determination by the Endpoint Method. *J. Clin Lab Analysis* 2008, 22; 50-8
11. **Srisawasdi P**, Chaichanajaremkul U, Teerakanjana N, Vanavanan S, Kroll MH. Exogenous interferences with Jaffe creatinine assays: addition of sodium dodecyl sulfate to reagent eliminates bilirubin and total protein interference with Jaffe methods. *J Clin Lab Anal* 2010;24 : 123–133.
12. **Srisawasdi P**, Vanavanan S, Charoenpanichkit C, Kroll MH. The effect of renal dysfunction on BNP, NT-proBNP and their ratio. *Am J Clin Pathol* 2010;133:14-23.
13. **Srisawasdi P**, Chaloeysup S, Teerajetgul Y, Pocathikorn A, Sukasem C, Vanavanan S, Kroll MH. Estimation of plasma small dense LDL cholesterol from classic lipid measures. *Am J Clin Pathol* 2011;136:20-29.
14. Vanavanan S, Chaloeysup S, Kotani K, **Srisawasdi P**. Development of estimated cholesterol levels in major serum lipoproteins separated by qualitative agarose gel electrophoresis. *J Electrophoresis* 2011;55:23-29.
15. **Srisawasdi P**, Prasertsincharoen N, Kroll MH. Porcine pancreas: a superior source of cholesterol esterase for total serum cholesterol assay by the enzymatic kinetic method. *J Clin Lab Anal* 2012; 26: 420–430.
16. **Srisawasdi P**, Suwalak T, Sukasem C, Chittamma A, Pocathikorn A, Vanavanan S, Puangpetch A, Santon S, Chantratita W, Kiertiburanakul S, Kroll MH. Small-Dense LDL Cholesterol/Large-Buoyant LDL Cholesterol Ratio as an Excellent Marker for Indicating Lipodystrophy in HIV-Infected Patient. *Am J Clin Pathol* (in press)

17. **Srisawasdi P**, Vanavanan S, Rochanawutanon M, Pornsuriyasak P, Tantrakul V, Kruthkul K, Kotani K. Heterogeneous properties of intermediate- and low-density lipoprotein subpopulations. Clin Biochem (in press)
18. **Srisawasdi P**, Suwalak T, **Sukasem C**, **Chittamma A**, Pocathikorn A, **Vanavanan S**, Puangpetch A, Santon S, Chantratita W, Kiertiburanakul S, Kroll MH. [Small-Dense LDL Cholesterol/Large-Buoyant LDL Cholesterol Ratio as an Excellent Marker for Indicating Lipodystrophy in HIV-Infected Patients](#). Am J Clin Pathol. 2013 Oct;140(4):506-15. doi: 10.1309/AJCPE5I3KELTBXEJ.

Abstracts/Posters/Oral Presentation

1. Lolekha PH, **Nitipaichit P**. User-defined serum cholesterol and triglycerides for the Beckman Synchron CX4/5 using Ames Sera-Pak reagents. Clin Chem, 1992, 38; 1036
2. Lolekha PH, **Nitipaichit P**, Vanavanan S. User-defined serum aspartate and alamine aminotransterase for the Beckman Synchron CX4/5 using Ames Sera-Pak reagents . Clin Chem 1992, 38; 1036
3. **Nitipaichit P**, Lolekha PH. User-defined serum urea and uric acid for the Beckman Synchron CX4/5 using Ames Sera-Pak reagents. Clin Chem 1992, 38; 1036-7
4. Lolekha PH, Teerajetkul Y, **Nitipaichit P**. Optimization of components in enzymatic cholesterol reagents containing cholesterol oxidase from Nocardia erythropolis, Streptomyces sp, or Pseudomonas fluorescens. Proceedings of the XVI International Congress of Clinical Chemistry, London, United Kingdom, 8-12 July 1996: p 288
5. Lolekha PH, **Nitipaichit P**. Determination the suitable source of cholesterol oxidase isolated from Streptomyces sp, Pseudomonas fluorescens, Brevibacterium sp, and Cellulomonas sp. for serum total cholesterol assay by the kinetic method. Present at the International Congress on Clinical Enzymology, Robinsion College, Cambridge, United Kingdom 13-16 July 1996: p 36-37
6. **Nitipaichit P**, Lolekha PH. Determination the suitable source of cholesterol oxidase isolated from Streptomyces sp, Pseudomonas fluorescens, Brevibacterium sp, and Cellulomonas sp. for serum total cholesterol assay by the kinetic method. Oral Presentation in Ramathibodi Conference 1999, Faculty of Medicine Ramathibodi Hospital, 11-13 May 1999
7. Lolekha PH, **Srisawasdi P**. A comparison of cholesterol oxidase isolated from Streptomyces and Pseudomonas fluorescens to Brevibacterium and

- Cellulomonas for total serum cholesterol by the endpoint method. Clin Chem Lab Med 1999; 37: S 265
8. **Srisawasdi P**, Lolekha PH. Performance characteristic of cholesterol oxidase isolated from Streptomyces, Pseudomonas fluorescent, Brevibacterium, and Cellulomonas for serum total cholesterol assay by kinetic method. Clin Chem Lab Med 1999; 37: S 266
 9. **Srisawasdi P**, Lolekha PH. Comparison of Brevibacterium and Streptomyces for cholesterol oxidase source used for total cholesterol assay by the kinetic method. Clin Chem Lab Med 1999; 37: S 266
 10. Lolekha P, **Srisawasdi P**. Application of Streptomyces and Brevibacterium cholesterol oxidase for total serum cholesterol assay by the enzymatic kinetic method. Clin Chem Lab Med 2001; 39: S 302
 11. **Srisawasdi P**, Lolekha P. Evaluation the performance characteristic of cholesterol oxidase isolated from Streptomyces, Pseudomonas, Brevibacterium and Cellulomonas for the kinetic determination of total cholesterol. Clin Chem Lab Med 2001; 39: S302
 12. Teerakarnjana N, Lolekha P, **Srisawasdi P**. Bilirubin interference on serum creatinine by the kinetic Jaffe reaction on three automated analyzers compared to the enzymatic reaction on the Vitros analyzer. Clin Chem Lab Med 2001; 39: S374
 13. **Srisawasdi P**, Jearanaikoon P, Kroll MH., Lolekha PH. Performance Characteristics of Cholesterol Oxidase for Kinetic Determination of Total Cholesterol. Clin Chem 2005; S6: A-129.
 14. **Srisawasdi P**, Jearanaikoon P, Wetprasit N, Sriwanthana B, Kroll MH, Lolekha PH. Advantages and Disadvantages of Serum Cholesterol Determination by the Kinetic versus the Endpoint Method. Clin Chem 2006; 52 Supplement: A121
 15. Vanavanan S, **Srisawasdi P**, Atamsirikul K. Comparison of Thyroid Hormones Obtained from Two Autoanalyzer Assays in routine and Patients with Autoimmune and heterophile antibodies. Clin Chem 2006; 52 Supplement: A102.
 16. Kroll MH, Twomey PJ, **Srisawasdi P**. Evaluation of the Half-life of NT-proBNP. Clin Chem 2006; 52 Supplement: A132.
 17. **Srisawasdi P**, Lolekha PH, Kroll MH. Evaluation of the kinetic method for total serum cholesterol determination. Clin Chem Lab Med 2007; 45: S422-423.

18. **Srisawasdi P**, Chaichanajareernkul U, Teerakranjana N, Lolekha PH, Kroll MH. Implementation of Cellulomonas and Streptomyces Cholesterol Oxidases for Total Serum Cholesterol Determination by the Endpoint Method. Clin Chem Lab Med 2007; 45: S423.
19. Vanavanan S, Jongjaroenprasert W, **Srisawasdi P**, Urwijitaroon Y. Polyethylene Glycol 6000 Precipitation in Thyroid Tests. Clin Chem Lab Med 2007; 45: S331.
20. Teerakranjana N, **Srisawasdi P**, Vanavanan S. Performance of polyethylene glycol precipitation for removal of endogenous antibody interference for the Architect pituitary hormone assays. Clin Chem Lab Med 2007; 45: S309.
21. **Srisawasdi P**, Vanavanan S, Charoenpanichkit C, Kroll MH. Clinical utility of NT-proBNP and BNP ratio for the accuracy diagnosis of heart failure with renal dysfunction. Clin Chem Lab Med 2009; 47: S151.
22. **Srisawasdi P**, Chaichanajareernkul U, Teerakranjana N, Vanavanan S, Kroll MH. Analysis and correction of interferences for serum creatinine using sodium dodecyl sulfate. Clin Chem Lab Med 2009; 47: S365-S366.
23. Vanavanan S, Jongjaroenprasert V, **Srisawasdi P**, Urwijitaroon P. Effect of polyethylene glycol precipitation on hormone measurements by using two types of chemiluminescent immunoassay on ARCHITECT ci8200. Clin Chem Lab Med 2009; 47: S245-S246.
24. **Srisawasdi P**, Vanavanan S, Charoenpanichkit C, Kroll MH. Clinical utility of NT-proBNP and BNP ratio for the accuracy diagnosis of heart failure with renal dysfunction. Clin Chem 2009; 55: A56-A57.
25. Vanavanan S, Chaloeysup S, Kasetpibal R, **Srisawasdi P**. Calculation of cholesterol levels in major serum lipoproteins separated by qualitative agarose gel electrophoresis. Present at the Annual meeting AACC 2010, Anaheim, California, USA , 25-29 July, 2010.
26. **Srisawasdi P**, Chaloeysup S, Teerajetgul Y, Pocathikorn A, Vanavanan S, Kroll MH. Estimation of small dense LDL cholesterol from calculated and direct LDL-cholesterol. Present at the Annual meeting AACC 2010, Anaheim, California, USA , 25-29 July, 2010.
27. **Srisawasdi P**, Prasertsincharoen N, Kroll MH. Performance Characteristics of Four Sources of Cholesterol Esterase for Total Serum Cholesterol Assay by the Enzymatic Kinetic Method. Present at the Euromedlab 2011, Berlin, Germany, 15-19 May, 2011.

28. **Srisawasdi P**, Chaloeysup S, Teerajetgul Y, Pocathikorn A, Sukasem C, Vanavanan S, Kroll MH. Estimation of Plasma Small Dense LDL-Cholesterol from Classic Lipid Measures. Present at the Euromedlab 2011, Berlin, Germany, 15-19 May, 2011.
29. **Srisawasdi P**, Suwalak T, Sukasem C, Chantratita W, Kiertiburanakul S, Kroll MH. Ratio of small-dense LDL cholesterol and large-buoyant LDL cholesterol: a predictor of lipodystrophy in HIV-infected patient under antiretroviral therapy. Present at the Annual meeting AACC 2012, Los Angeles, California, USA. 15-19 July, 2012.
30. Vanavanan S, Rochanawutanon M, Pornsuriyasak P, Tantrakul V, Kruthkul K, **Srisawasdi P**, Kroll MH. Comparison of small dense LDL cholesterol obtained between polyacrylamide tube gel electrophoresis and homogenous enzymatic methods. Present at the Annual meeting AACC 2012, Los Angeles, California, USA. 15-19 July, 2012.
31. **Srisawasdi P**, Vanavanan S, Rochanawutanon M, Pornsuriyasak P, Tantrakul V, Kruthkul K, Kroll MH. Heterogeneous performances of intermediate and low density lipoprotein subpopulations. Present at the Annual meeting AACC 2012, Los Angeles, California, USA. 15-19 July, 2012.
32. **Srisawasdi P**, Vanavanan S, Kerdmongkol J, Kroll MH. Comparison of Four Commercial LDL-Cholesterol Methods Used in Small Dense LDL-Cholesterol Calculation Equation. Present at the Euromedlab 2013, Milano Italy. 19-23 May, 2013.
33. **Srisawasdi P**, Suwalak T, Sukasem C, Chantratita W, Kiertiburanakul S, Kroll MH. Small-Dense LDL Cholesterol/Large-Buoyant LDL Cholesterol Ratio as an Excellent Marker for Indicating Lipodystrophy in HIV-Infected Patient. Present at the Euromedlab 2013, Milano Italy. 19-23 May, 2013.