

David J. Thornton, Ph.D., DABCC

Work Address

Department of Laboratory Medicine
Children's Hospital
Columbus, OH 43205
Phone: (614) 722-5310
Email: thortod@chi.osu.edu

Education

Doctorate of Philosophy, Clinical Chemistry, March 1986
Department of Pathology, The Ohio State University, Columbus, OH
Dissertation: Determination of Aluminum Concentration in Serum and Tissue: Factors affecting the Gastrointestinal Absorption of Aluminum
Advisor: Leopold Liss, M.D.

Bachelor of Science, Chemistry 1973
Brockport State College, Brockport, NY

Associate of Arts, Engineering, 1972
Potomac State College, Keyser, WV

Profession Experience

- 1996 – Present: **Director Core Laboratory**, Children's Hospital, Columbus, OH
Responsible for technical oversight of the Core Laboratory, including Chemistry and Hematology.
- 1992 – 1995 : **Director Clinical Chemistry Laboratory** Children's Hospital, Columbus, OH
Responsible for technical oversight of the Clinical Chemistry Laboratory.
- 1985 - 1992: **Director Special Chemistry Special Chemistry**, Children's Hospital, Columbus, OH
Develop procedures including blood lead, emergency toxicology services, and support for routine clinical chemistry laboratory.
- 1977 – 1985 **Specialist I**, Department of Laboratory Medicine, Children's Hospital
Part-time. Performed routine chemistry and blood drawing functions for the clinical laboratory .
- 1973 – 1977 **Laboratory Technologist**, Ohio Valley Medical Center, Wheeling, WV.
Developed and performed assays in special chemistry area, including RIA, Gas Chromatography and wet chemical analyses.

Certifications:

- 1994 Diplomat, American Board of Clinical Chemistry
- 1975 Chemistry, American Society of Clinical Pathology

Publications, Abstracts and Presentations

Thornton DJ, Todd DM, Lott JA, Liss L: Stability of serum aluminum concentrations during storage [Abstract]. Clin Chem 1980;26:1055.

Thornton DJ, Lott JA, Liss L. Determination of aluminum tissues by wet digestion and electrothermal atomic absorption [Abstract]. Clin Chem 1982;28:1590.

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Publications, Abstracts and Presentations (cont'd)

Thornton DJ, Lott JA, Liss L. Effect of ethanol on the uptake and distribution of aluminum in rabbits. [Abstract]. Clin Chem 1983;29:1281.

Thornton DJ, Liss L, Lott JA: Determination of aluminum in tissue with wet digestion and flameless atomic absorption. Presented at the Conference on Biological Aspects of Aluminum, Charlottesville, VA (1983).

Walters M, Thornton DJ: Multiwavelength analyses of derivative spectra: an application for the determination of urinary porphyrins. Clin Chem Acta 1986;157:311-316.

Cromer BA, Steinberg K, Gardner L, Thornton DJ, Shannon BT: Psychosocial determinants of compliance in adolescents with iron deficiency. Am J Dis Child 1989;143:55-58.

Thornton DJ, Meites S, Saniel-Banrey K, Sing LP: Discrepancy in the iron results between Ferrozine and Kodak Ektachem method. [Abstract]. Clin Chem 1990;36:1200.

Thornton DJ: Lead poisoning in children. Clin Lab Sci 1990;3:365-366

Thornton DJ, Chambers LA. Elevated lipase and abnormal amylase using the Ektachem 700. [Abstract]. Clin Chem 1993;39:1159.

Thornton DJ, Thornton BL, Instrumentation systems: reliability and validity issues. In Ward KM, Lehman CA, Leiken AM, eds. Clinical laboratory instrumentation and automation: principles, applications and selection. Philadelphia:WB Saunders, 1994 :383-413.

Thornton DJ. Breath hydrogen testing. Clin Lab Sci 1996;9:268-269.

Thornton DJ, Lin S, Davis MS. Semi-automated pipetting of blood with a Hamilton Micro-Lab AT for Quantifying Lead in Blood [Abstract]. Clin Chem 1996;43:5281.

Professional Activities

1975 – Present American Association for Clinical Chemistry. (AACC)

1986 – Present Member, Executive Committee, Ohio Valley Section AACC (OVS)

1987 – 1990 Newsletter Editor OVS-AACC

1992 Program Chair, OVS-AACC

1993 Chair, OVS-AACC

1999 Program Chair, OVS-AACC

2000 Chair, OVS-AACC