

Thomas E. Cornwell MPH, RT.T, CMD

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curriculum vitae

EDUCATION

Ph.D. in Communications Media and Instructional Technology

Indiana University of Pennsylvania, Indiana PA.

Successful Defense of comprehensive examination and

ABD status obtained April 2013

Expected dissertation defense September 2014

Dissertation Title: Development of user centered criteria for creating an online social network community of kids with cancer linked through a conduit of mobile application technology

Master of Public Health- Community Health Education

Temple University - Philadelphia, PA.

Graduated December 2002

Bachelor of Science- Health Arts-Education

University of St. Francis- Joliet Illinois.

Graduated May 1998

Associate of Science – Radiation Therapy Technology

Gwynedd-Mercy College - Gwynedd Valley PA.

Graduated May 1993

ACADEMIC EMPLOYMENT

Lecturer, Instructor, Gwynedd-Mercy College

Department of Allied Health

Radiation Therapy

Jan. 2006 - 2009

Jan. 2013 - current

- **Instructed undergraduate students in cross sectional anatomy and radiation dose tolerances to normal organs and tissues of the human body**
- **Created and administered exams, projects and assignments and managed all aspects of course development and completion**
- **Introduced and instructed students in proper aspects of viewing CT, MR. X-ray and PET imaging studies**
- **Conducted scheduled weekly on site laboratory instruction in an acute health care setting for practical application of didactic learning of radiation procedures, topical anatomy and techniques for delivering radiation therapy treatments.**

TEACHING EXPERIENCE

Gwynedd-Mercy College

- | | | |
|---|----------------------|-----------------|
| • Cross Sectional Anatomy | Allied Health | RTS. 308 |
| • Radiation Therapy Lab I & II | Allied Health | RTS. 304 |
| • Medical Dosimetry Work Shop | Allied Health | |

PROGRAM DEVELOPMENT

Medical Dosimetry Workshop/Seminar - 3 day event

- Program and Seminar developer – creating course material and content
- Speaker/Instructor Dosimetry applications and Cross Sectional Anatomy
- Created all course learning objectives and outlines for requirements of continuing education credits for attendees
- Administrative Director for the Workshop/Seminar- responsible for site selection, financials, advertising, brochure development and securing expert speakers/presenters for each subject area presented
- Workshop/Seminar was accredited to award continuing medical education credits by the American Society of Radiological Technologists (ASRT) and the Medical Dosimetry Certification Board (MDCB).

PROFESSIONAL EMPLOYMENT

Senior Medical Dosimetrist	Aria Health Cancer Center	2004-current
Administrative Director & Chief Medical Dosimetrist	Medical College of Pennsylvania Hospital Radiation Oncology	2001-2004
Traffic Anchor/Reporter	Traffic Tips Radio Network	2006 - 2009
Radio Program Host	WDEL 1150 AM News/Talk	2004 - 2005
Consulting Dosimetrist	Med-Phys Consulting	2001 - 2010
Senior Staff Radiation Therapist/ Jr. Dosimetrist	Temple University	1998 - 2001
Staff Radiation Therapist	Mercy Hospital of Philadelphia	1993 -1998
Communications Operator	City of Philadelphia Police Dept.	1987- 1993
Videographer	Affairs Unlimited (Owner)	1983 – 1987

INDUSTRY BACKGROUND

Department Leadership/Management: Health Care

Managed and provided oversight to the technical and support staff in the dept. of radiation oncology. Developed policies for operating procedures and quality assurance. Collaborated with physicians, senior management and staff throughout the Tenet Health Care System to develop an oncology program that works in unison with other departments and services to deliver high quality care which was cost effective.

Clinical Experience: Health Care

Plan all aspects of radiation therapy treatments including stereo tactic lung and brain radiotherapy, dynamic arc therapy, brachy-therapy, Image guided therapy and intensity modulated therapy. Act as expert technical resource to therapists and attending physicians.

Clinical Service: Health Care

Educate, train and advise resident physicians in the technical aspects of dose calculation and treatment planning. Collect and report accurate data for patients under protocol studies and submit all required data in requested format to national study organization. Participating member in quality assurance program for compliance of operating standards and procedures in treatment planning and delivery of radiation therapy.

Broadcast Media Experience: Communications

WDEL 1150 AM News/Talk Radio. Board operator and on air program host of "Consumer Hot Line" radio program every Saturday morning from 9am to 12pm. Live call in talk show. Interviewed many business owners and professionals on the consumer topics that were important to the listeners of Wilmington Delaware. Broadcasted live from studio and on location at station events. Interviewed Political representatives (U.S. Senator Tom Carper) as well as business and organization leaders. In addition worked part time as an on air traffic anchor and reporter for several radio stations servicing the Delaware, Eastern Maryland and Northern Virginia radio markets. Provided up to the minute traffic information.

PROFESSIONAL SERVICE/ASSOCIATIONS

Member Advisory Board Didactic and Clinical Education	Gwynedd-Mercy College	2008-current
Member ASRT		1993-current
Member ARRT		1994-current
Member AAMD		2004 - 2009
Member MDCB		2004-current
Voice Talent/Reader Books/Magazines to tape	Associated Services for the Blind. Philadelphia, PA.	1995 - 1998

PUBLICATIONS

Peer-Reviewed Publications

Chew, M., Xue, J., Houser, C., Mistic, V., Cao, j., **Cornwell, T.**, Handler, J., Yu, Y., Gressen, E. (2009) "Impact of transrectal ultrasound and computed tomography-based seed localization on post implant dosimetry in prostate Brachytherapy". *Brachytherapy* (8), 255-264.

Cornwell, T., Olear, C., Gasior, W., Parrott, D. (2011) Panel Discussion: Fair use, free speech and freedom of expression. *Proceedings of the Laurel Highlands Conference*. October 2012, Indiana PA.

PRESENTATIONS

Cornwell, T. E. (2002, November) Analysis of the qualitative data from the Time Trade-Off Technique: Preferences for Prostate Cancer Treatment. Presented at the *American Association of Public Health Annual Meeting*. Philadelphia, PA.

Cornwell, T.E. (2007, 2008, 2009, 2010 March) Cross Sectional Anatomy using MR and CT imaging and Normal Tissue Tolerances. Presented at the *Annual Medical Dosimetry Workshop/Seminar*. Gwynedd-Mercy College, Gwynedd Valley, PA.

Cornwell, T., Olear, C., Gasior, W., Parrott, D. (2011 October) Panel Discussion: Fair use, free speech and freedom of expression. *Laurel Highlands Communications Conference*, Indiana, PA.

Cornwell, T.E. (2012 November) Herzberg's two factor theory of motivation and hygiene in the workplace. Presented at the *Laurel Highlands Communications Conference*. Indiana, PA.

RESEARCH

- 2001 - 2002 Master Thesis - *Analysis of qualitative data from the Time Trade-Off Technique: Preferences for Prostate Cancer Treatments*. Conducted face to face interviews for eight months in the Prostate Risk Assessment Program at Fox Chase Cancer Center, Philadelphia, PA. Analysis of Preferences creates a utility score which is useful in comparing therapies and offering patients preferred treatments.
- 2013 – 2014 Dissertation – *Developing user centered criteria for supporting kids with cancer through a social network*. This qualitative research will help further efforts of the medical community and families to support this population while they are supporting each other.

AWARDS AND HONORS

Academic

- Clinical Competency Award, Radiation Therapy Technology Gwynedd-Mercy College 1993
- Outstanding Student Research Award, American Public Health Association. One of ten students selected nation wide to receive this award. APHA Annual Meeting 2002
- Lambda Nu. National Honor Society for radiological and imaging sciences. Recognized for exemplary scholarship and fostering academic scholarship at the highest academic levels. Given at Gwynedd-Mercy College 2007.

SOFTWARE/TECHNICAL SKILLS

MEDIA

Adobe Photoshop CS 6
Adobe Acrobat Reader and Creator
Audacity
Audio Trax (Radio Board)
Celtx (Script Writing, Story Board)
Cool Pro Edit
Radio Wolf
Scot Studios (Radio Board)
Sony Acid (Audio editing)
Sony Vegas Pro (Video editing)
Windows Movie Maker

ACADEMIC

Blackboard
D2L (Desire to Learn)
Moodle
Qualtrics
Google Docs
Drop Box
MS Power Point
PREZI
NVivo Qualitative Software
SPSS Quantitative Software
Excel Spread Sheet & Stats

RADIATION THERAPY

Eclipse Versions 10 and 11
Pinnacle all versions up to 9.2
ARIA EMR
MOSAIQ EMR Version 2.3
Fast Plan (Stereo tactic Brain planning)
Philips Large Bore CT
G.E. Light-speed CT

REFERENCES

Dr. Mary Beth Leidman - Dissertation and Comprehensive Exam Chair
Indiana University of Pennsylvania
127 Stouffer Hall
Indiana, PA 15705
(724) 357-5763 email: Mbleid@iup.edu

Dr. Luis Almeida - Dissertation and Comprehensive Exam Committee
Indiana University of Pennsylvania
130 Stouffer Hall
Indiana, PA 15705
(724) 357-3295 email: Luis.Almeida@iup.edu

Rose Troutman MS – Assistant Professor & Program Director Radiation therapy
Frances M. Maguire School of Nursing and Health Professions
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