

**CHANDRA Y. GERRARD, B.S.,  
R.T. (R)(CT)(MR)(QM)**

1. New Mexico Office of the Medical Investigator  
Radiology-Pathology Center for Forensic Imaging  
University of New Mexico School of Medicine  
MSC07 4040, 1 University of New Mexico, 87131-0001
2. Department of Radiology  
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**EMPLOYMENT**

**Lecturer III – Faculty**, May 2015 to present.

University of New Mexico, New Mexico, USA  
Health Sciences Center, School of Medicine  
Departments of Radiology and Pathology

Current appointments:

Supervisor of Forensic Imaging:  
Radiology-Pathology Center for Forensic Imaging  
May 2015 to present  
Clinical Radiology Research Technologist:  
Department of Radiology  
August 2016 to present

Past appointments:

CT Physics Instructor:  
Radiologic Sciences Program  
May 2015 to July 2016

**Radiologic Technology Instructor – Faculty**, August 2014 to present.

Central New Mexico Community College, New Mexico, USA.  
School of Health, Wellness, and Public Safety (HWPS)  
Albuquerque, New Mexico, USA

**Radiologic Technologist – Intermittent Federal Employee**, February 2013 to present.

Assistant Secretary for Preparedness and Response (ASPR)  
Department of Health and Human Services (HHS)  
National Disaster Medical System (NDMS)  
Disaster Mortuary Operational Response Teams (DMORT) Region VI

**Supervisor of Forensic Imaging**, May 2011 – May 2015.

University of New Mexico, New Mexico, USA  
Health Sciences Center, School of Medicine  
New Mexico Office of the Medical Investigator  
Radiology-Pathology Center for Forensic Imaging

**Computed Tomography Supervisor**, October 2009 – April 2011.  
University of New Mexico Hospitals, New Mexico, USA.  
Radiology Department – Computed Tomography  
Interim Computed Tomography Supervisor, October 2009 – October 2010

**Computed Tomography Staff Technologist**, April 2007 – September 2009.  
University of New Mexico Hospitals, New Mexico, USA.  
Radiology Department – Computed Tomography

**Diagnostic Radiologic Technologist**, April 2006 – August 2008.  
Lovelace Medical Center – Downtown, New Mexico, USA.  
Radiology Department – Radiography  
PRN Diagnostic Radiologic Technologist, April 2007 – August 2008.

## EDUCATION

**MPH – Master of Public Health - Epidemiology**, August 2015 to May 2018.  
*University of New Mexico, School of Medicine, Public Health Program,*  
Master of Public Health Program, Albuquerque, New Mexico, USA.  
Expected graduation May 2018.

**BS – Radiologic Sciences**, September 2007 to December 2013.  
*University of New Mexico, School of Medicine, Radiologic Sciences Program,*  
Albuquerque, New Mexico, USA.  
Graduated *Cum Laude*, Department of Radiologic Sciences, School of Medicine.

**Magnetic Resonance Imaging Certificate**, June 2011 to July 2012.  
*University of New Mexico, School of Medicine, Radiologic Sciences Program,*  
Albuquerque, New Mexico, USA.

**Computed Tomography Certificate**, June 2007 to July 2008.  
*University of New Mexico, School of Medicine, Radiologic Sciences Program,*  
Albuquerque, New Mexico, USA.

**AS – Occupational Sciences, Radiologic Sciences**, September 2003 to April 2006.  
*PIMA Medical Institute, Albuquerque, New Mexico, USA.*  
Graduated with Honors, PIMA Medical Institute.

## CERTIFICATION & LICENSURE

Board Certified in Radiologic Technology. American Registry of Radiologic Technologists. USA.  
(ARRT 405735 – April 2006, exp. February 2017).

Board Certified in Computed Tomography. American Registry of Radiologic Technologists.  
USA. (ARRT 405735 – August 2008, exp. February 2017).

Board Certified in Magnetic Resonance Imaging. American Registry of Radiologic Technologists. USA. (ARRT 405735 – August 2012, exp. February 2017).

Board Certified in Quality Management. American Registry of Radiologic Technologists. USA. (ARRT 405735 – November 2012 exp. February 2017).

Licensed Radiographic Radiologic Technologist. The New Mexico Medical Imaging and Radiation Therapy Program. New Mexico, USA. (RRT 03529 – April 2016, expires April 2018).

Basic Life Support (BLS and AED). American Safety and Health Institute. New Mexico, USA. (Registry No. 48576, October 2015, exp. October 2017).

## PRESENTATIONS

### SCIENTIFIC

- 2017                      European Society of Paediatric Radiology (ESPR)  
ESPR 2017 - 53<sup>rd</sup> Annual Scientific Meeting  
Title: International PMCT protocols – Presentation of Combined ESPR  
PM Taskforce / ISFRI Paediatric Working Group white document on PM  
CT protocols.  
Davos, Switzerland, 05/30/17 – 06/03/17
- 2016                      RTI International Forensic Technology Center of Excellence  
Funded award Title (PI Hatch): Hosting 3-day Workshop on Advanced  
Radiologic Imaging in Medicolegal Death Investigation.  
Title of talk: Protocols  
Albuquerque, NM, USA, 11/11/16-11/13/16
- 2016                      RTI International Forensic Technology Center of Excellence  
Funded award Title (PI Hatch): Hosting 3-day Workshop on Advanced  
Radiologic Imaging in Medicolegal Death Investigation.  
Title of talk: The Skeletal Survey  
Albuquerque, NM, USA, 11/11/16-11/13/16
- 2015                      Podium Presentation – Scientific Session  
4<sup>th</sup> International Society of Forensic Radiology and Imaging (ISFRI) World  
Congress  
Postmortem Computed Tomography (PMCT) in pediatric deaths  
attributed to asphyxia  
Leicester, United Kingdom, 05/14/15 – 05/16/15
- 2015                      Workshop Presentation

- 67<sup>th</sup> American Academy of Forensic Sciences (AAFS) Annual Scientific Meeting  
*RADid: Using Radiologic Techniques to Identify Unknown Decedents*  
Orlando, FL, USA, 02/16/15 – 02/21/15
- 2014 Podium Presentation – Scientific Session  
3<sup>rd</sup> International Society of Forensic Radiology and Imaging (ISFRI) World Congress  
*PMCT findings in hanging*  
Marseille, France, 05/15/14 – 05/17/14
- 2014 Workshop Presentation  
66<sup>th</sup> American Academy of Forensic Sciences (AAFS) Annual Scientific Meeting  
*Advanced Forensic Pathology and Forensic Radiology Techniques in the Assessment of Cervical Spine and Craniocervical Junction Trauma*  
Seattle, WA, USA, 02/17/14 – 02/22/14
- 2014 Podium Presentation  
National Institute of Justice (NIJ) 2014 Grantees Meeting  
*Investigation of the Impact of Body Temperature and Post-Mortem Interval on Magnetic Resonance Imaging (MRI) of Unfixed Tissue*  
Seattle, WA, USA, 02/17/14 – 02/22/14
- 2013 Paper Presentation  
65<sup>th</sup> American Academy of Forensic Sciences (AAFS) Annual Scientific Meeting. Forensic Sciences Foundation Emerging Forensic Scientist Award.  
*Determination of Postmortem Interval Using Non-Invasive Magnetic Resonance Imaging Measurement of the Apparent Diffusion Coefficient and 1-Dimensional Spectroscopy*  
Washington, DC, USA, 02/18/13 – 02/23/13  
(Unable to attend due to unforeseen circumstances)
- 2012 Podium Presentation – Scientific Session  
1<sup>st</sup> International Society of Forensic Radiology and Imaging (ISFRI) World Congress  
*Determination of PMI using non-invasive MRI measurement of the ADC*  
Zurich, Switzerland, 05/14/12 – 05/15/12
- INVITED**
- 2016 Podium Presentation  
International Society of Forensic Radiology and Imaging (ISFRI)  
International Association of Forensic Radiographers (IAFR) Day Meeting  
*PMMR of the Brain*  
Amsterdam, The Netherlands, 05/12/16 – 05/14/16
- 2016 Podium Presentation

British Columbia Association of Medical Radiation Technologists  
(BCAMRT) Annual General Conference  
Forensic Imaging  
Coquitlam, British Columbia, Canada, 04/22/16 – 04/23/16

- 2015 Podium Presentation  
New Mexico Society of Radiologic Technologists Annual Conference  
(NMSRT)  
Forensic Radiologic Technologist  
Ruidoso, NM, USA, 04/17/15 – 04/18/15
- 2014 Podium Presentation  
Radiology CEU Seminar; University of New Mexico Hospitals  
Forensic Radiologic Technologist  
Albuquerque, NM, USA, 06/14/14
- 2014 Live Webinars  
RTI International Center for Forensic Sciences Continuing Education  
Program, funding from National Institute of Justice  
Investigation of the Impact of Body Temperature and Post-Mortem  
Interval on Magnetic Resonance Imaging (MRI) of Unfixed Tissue  
Webinars (3) presented 06/03/14 – 06/05/14
- 2012 Podium Presentation  
65<sup>th</sup> National Association of Medical Examiners (NAME) Annual Meeting  
& Exhibits  
Pediatric Skeletal Survey as a Means of Identifying Cases of Non-  
Accidental Trauma  
Baltimore, MD, USA, 10/05/12 – 10/09/12
- 2012 Podium Presentation  
2012 Philips Clinical Informatics and Patient Care User Summit  
iSite's role in transforming workflow for Forensic Radiology  
San Francisco, CA, USA, 09/06/12 – 09/07/12
- 2012 Podium Presentation  
New Mexico Society of Radiologic Technologists Annual Conference  
(NMSRT)  
Introduction to a Medical Examiner's Office  
Taos, NM, USA, 04/13/12 – 04/14/12

**TEACHING**

September 2016 Senior Morphology Technicians  
Overview of Forensic Imaging Modalities  
New Mexico Office of the Medical Investigator

Fall 2016 RADS 410 *Physics of Computed Tomography I*

(TA)	RADS 410	<i>Physics of Computed Tomography I</i>
		<i>Structured Education Requirement Student (SERS)</i>
	RADS 420	<i>Computed Tomography Clinical I</i>
July 2016		Native American Tribal Leadership Open House Post Mortem Computed Tomography Demonstration
June 2016		Field Deputy Medical Investigator Continuing Education <u>Forensic Imaging – workflow, utility, and case examples</u> New Mexico Office of the Medical Investigator Medicolegal Death Investigation – ECHO Session (June 15, 2016)
Summer 2016 (Instructor)	RADS 412	<i>Computed Tomography Physics Review</i>
	RADS 422	<i>Computed Tomography Clinical III</i>
March 2016		Facilitator <u>Interprofessional Disaster Preparedness Event</u> University of New Mexico Health Sciences Center Interprofessional Education (IPE)
Spring 2016 (Instructor)	RADS 411	<i>Physics of Computed Tomography II</i>
	RADS 421	<i>Computed Tomography Clinical II</i>
Fall 2015 (Instructor)	RADS 410	<i>Physics of Computed Tomography I</i>
	RADS 420	<i>Computed Tomography Clinical I</i>
Summer 2015 (Instructor)	RADS 412	<i>Computed Tomography Physics Review</i>
	RADS 422	<i>Computed Tomography Clinical III</i>
February 2015		Forensic Pathology Fellow Rotation <u>Radiographic Technique for Pediatric Skeletal Survey</u>
January 2015		Field Deputy Medical Investigator Meeting <u>Center for Forensic Imaging – past, present, future</u>
March 2014		Forensic Pathology Faculty, Fellows, Residents Workshop presentation <u>Advanced Forensic Pathology and Forensic Radiology Techniques in the Assessment of Cervical Spine and Craniocervical Junction Trauma</u>
July 2013		Forensic Pathology Fellow Rotation <u>Radiographic Technique for Pediatric Skeletal Survey</u>
July 2012		Morphology Technician Training <u>Pediatric Skeletal Survey</u>
Spring 2009 (Student TA)		<i>CT Physics Program</i> (RADS 406 requirement) Developed PowerPoints for CT Physics Instructor Used for courses RADS 410 and RADS 420
Fall 2008		<i>Nuclear Medicine Program</i> (RADS 406 requirement)

(Student TA) Developed Visual Graphs for Nuclear Medicine Program Director  
Graphs used to represent student clinical experience

## MENTORING

Fall 2016 Victoria Bixler, R.T.(R)(MR)  
Radiologic Sciences Bachelor of Science in Radiologic Sciences  
candidate; RADS 406 research rotation

## TRAINING

October 2015 Leadership Academy  
American Society of Radiologic Technologists (ASRT)  
Albuquerque, NM, USA, 10/15/15 – 11/26/15

August 2015 Disaster Victim Identification – In Theory and Practice  
International Association of Forensic Radiographers (IAFR) United  
Kingdom Forensic Radiography Response Team (UKFFRT)  
Shrivenham, Swindon, United Kingdom, 08/08/15 – 08/09/15

June 2014 Disaster Mortuary Operational Response Teams Fundamentals National  
Training  
Disaster Mortuary Operational Response Teams (DMORT)  
United States Department of Health and Human Services (HHS)  
National Disaster Medical System (NDMS)  
Phoenix, AZ, USA, 06/23/15 – 06/25/15

July 2013 N 1070 – Ethics Training for Special Government Employees  
Assistant Secretary for Preparedness and Response  
National Disaster Medical Systems  
Certificate of Training

July 2013 N 2051 – Psychological First Aid  
Assistant Secretary for Preparedness and Response  
National Disaster Medical Systems  
Certificate of Training

October 2012 Advanced Forensic Imaging Course  
University of Maryland Medical System  
Office of the Chief Medical Examiner (OCME)  
Baltimore, MD, USA, 10/10/12

March 2010 FEMA (ICS-00800.b) – National Response Framework, An Introduction  
Emergency Management Institute  
United States Department of Homeland Security

March 2010 FEMA (ICS-00700.a) – National Incident Management System (NIMS),  
An Introduction

Emergency Management Institute  
 United States Department of Homeland Security

March 2010      FEMA (IS-00200.a) – ICS for Single Resources and Initial Action Incidents, ICS-200  
 Emergency Management Institute  
 United States Department of Homeland Security

February 2010      FEMA (IS-00100.FWa) – Introduction to the Incident Command System, ICS-100 for Federal Workers  
 Emergency Management Institute  
 United States Department of Homeland Security

**PROFESSIONAL AFFILIATIONS**

- |  |                |
|--|----------------|
| 1. American Registry of Radiologic Technologists (ARRT)                | 2006 – present |
| 2. American Society of Radiologic Technologists (ASRT)                 | 2009 – present |
| Computed Tomography Chapter  | 2009 – present |
| Magnetic Resonance Imaging Chapter                                     | 2012 – present |
| Quality Management Chapter   | 2013 – present |
| 3. International Association of Forensic Radiographers (IAFR)          | 2011 – present |
| 4. New Mexico Society of Radiologic Technologists (NMSRT)              | 2011 – present |
| 5. National Association of Medical Examiners (NAME)                    | 2012 – present |
| Support System Affiliate   |                |
| 6. International Society of Forensic Radiology and Imaging (ISFRI)     | 2012 – present |
| Founding Member  |                |
| 7. Golden Key International Honour Society                             | 2012 – present |
| 8. Association of Educators in Imaging and Radiologic Sciences (AEIRS) | 2014 – present |
| Active Member  |                |
| 9. American Academy of Forensic Sciences (AAFS)                        | 2015 – present |
| Trainee Affiliate – General Section                                    | 2015 – present |
| 10. New Mexico Public Health Association (NMPHA)                       | 2015 – present |
| Student Member   |                |
| 11. European Society of Paediatric Radiology (ESPR)                    | 2016 – present |
| Associate Member   |                |
| 12. New Mexico Diabetes Advisory Council (NMDAC)                       | 2016 – present |



Para Professional Member

**OTHER PROFESSIONAL SERVICE / COMMITTEES**

- |   |                     |
|---|---------------------|
| 1. Committee on Bylaws<br>Member<br>American Society of Radiologic Technologists (ASRT)   | 09/01/16 – 08/31/17 |
| 2. House of Delegates Minutes Approval Committee<br>Member<br>American Society of Radiologic Technologists (ASRT)                                       | 09/01/16 – 08/31/17 |
| 3. Protocol Review & Monitoring Committee (PRMC)<br>Protocol reviewer for department of Radiology UNM, SOM<br>UNM Comprehensive Cancer Center           | 08/2016 – present   |
| 4. Standing Member, Radiology Research Committee<br>Department of Radiology, University of New Mexico School of Medicine                                | 08/2016 – present   |
| 5. Practice Standards Council<br>Computed Tomography Subcommittee<br>American Society of Radiologic Technologists (ASRT)                                | 07/2016 – 06/2018   |
| 6. Computed Tomography (CT) Chapter Delegate<br>American Society of Radiologic Technologists (ASRT)   | 07/2016 – 06/2018   |
| 7. Public Health Emergency Preparedness Committee<br>Scholarship Development<br>University of New Mexico, Health Sciences Center                        | 04/2016 – present   |
| 8. Public Health Emergency Preparedness Committee<br>Curricular Development<br>University of New Mexico, Health Sciences Center                         | 04/2016 – present   |
| 9. Chairman of the Board<br>New Mexico Society of Radiologic Technologists (NMSRT)  | 04/2016 – present   |
| 10. Co-chair<br>Public Health Emergency Preparedness Committee<br>Interprofessional Education (IPE)<br>University of New Mexico, Health Sciences Center | 09/2015 – present   |
| 11. International Membership Subcommittee<br>International Association of Forensic Radiographers (IAFR)   | 07/2015 – present   |
| 12. Subcommittee Member – Pediatric Imaging<br>Lead protocol member   | 05/2015 – present   |

International Society of Forensic Radiology and Imaging (ISFRI)

- |  |                     |
|--|---------------------|
| 13. Affiliate Delegate<br>Representing New Mexico Society of Radiologic Technologists (NMSRT): American Society of Radiologic Technologists (ASRT) | 02/2015 – 01/2017   |
| 14. USA Liaison – Committee Member<br>International Association of Forensic Radiographers (IAFR)   | 10/2014 – 10/2017   |
| 15. Subcommittee Member – Image Acquisition<br>Lead protocol member<br>International Society of Forensic Radiology and Imaging (ISFRI)             | 05/2014 – present   |
| 16. Grass-roots Network<br>American Society of Radiologic Technologists (ASRT)   | 04/2014 – 03/2019   |
| 17. Advisory Committee Member<br>University of New Mexico, Radiologic Sciences Program   | Fall 2013 – present |

**PAST PROFESSIONAL SERVICE**

- |  |   |
|--|---|
| 1. Honorary Secretary<br>International Association of Forensic Radiographers (IAFR)  | 11/2015 – 10/2016   |
| 2. Invited Presenter – USA Liaison IAFR<br>4 <sup>th</sup> International Society of Radiographers and Radiological Technologists (ISRRT) Americas Teleconference   | 08/29/2016  |
| 3. Invited Collaborator<br>International Forensic Radiology Research Summit (IFRRS)<br>Summit partnerships:<br>National Institute of Justice (NIJ),<br>Netherlands Forensic Institute (NFI),<br>International Society of Forensic Radiology and Imaging (ISFRI),<br>International Association of Forensic Radiographers (IAFR) | 05/10/16 – 05/11/16   |
| 4. Standing Member, Radiology Research Committee<br>Department of Radiology, University of New Mexico School of Medicine   | 05/2015 – 09/2015   |
| 5. New Mexico Society of Radiologic Technologists (NMSRT)<br>President<br>President – Elect<br>Vice President  | 04/2015 – 04/2016<br>04/2014 – 04/2015<br>04/2012 – 04/2014 |

**PROFESSIONAL MEETINGS – PUBLIC HEALTH**

October 2016      New Mexico-Youth Risk and Resiliency Surveys (NM-YRRS) Roadshow

Adelante Development Center Community Room  
Albuquerque, NM, USA, 10/12/2016

- September 2016      From Giving Life to Living Life: Understanding proper care in preventing and managing diabetes  
New Mexico Diabetes Advisory Council Educational Session (NMDAC)  
Albuquerque, NM, USA, 09/09/2016
- December 2015      12<sup>th</sup> Annual New Mexico Public Health Association (NMPHA) Health  
Policy Legislative Forum  
Albuquerque, NM, USA, 12/09/2015
- October 2015      5<sup>th</sup> Meeting of the Legislative Health and Human Services (LHHS)  
Committee  
*Attended: Substance Use Disorder and Overdose Update*  
State Capitol, Santa Fe, NM, USA, 10/06/2015

### PEER REVIEWED PAPERS

1. Catherine Miller, MD, MA; Michael Haag, BS; **Chandra Y. Gerrard, BS, R.T.(R)(CT)(MR)(QM)**; Gary M. Hatch, MC; Jamie Elifritz, MD, Michael C. Simmons, MD, Sarah Lathrop, DVM, PhD, Kurt B. Nolte, MD  
A Comparative Evaluation of Potentially Radiolucent Projectile Components by Radiographs and Computed Tomography  
Journal of Forensic Sciences, 2017 (in press).

### PEER REVIEWED ABSTRACTS

1. L. Adolphi, A. Mason, C. Martinez Barrera, **CY. Gerrard**.  
The effect of tissue preservation (refrigeration, freezing/thawing, or fixation) on tissue properties and postmortem imaging.  
Abstract published on ISFRI website  
5<sup>th</sup> International Society of Forensic Radiology and Imaging (ISFRI) World Congress; Amsterdam, The Netherlands, 05/12/16 – 05/14/16
2. Ian Paul, MD\*; Sarah Lathrop, DVM, PhD; Gary M. Hatch, MD; **Chandra Y. Gerrard, BS**; Valerie Poland, BA; Ross E. Zumwalt, MD; Sam W. Andrews, MD; Jan Price, RN, MSA; Gary W. Mlady, MD; Jennifer W. Pohl, MD, PhD; Brad W. Cushnyr, MD; Philip W. Wiest, MD; Kurt B. Nolte, MD  
A Prospective Double-Blinded Comparison of Autopsy and Postmortem Computerized Tomography (PMCT) for the Evaluation of Potential Drug Poisoning Deaths.  
68<sup>th</sup> Annual Scientific Meeting of the American Academy of Forensic Sciences. Las Vegas, NV, USA. 2016.
3. Morin J, Jarrell H, Kastenbaum H, Proe L, Aurelius M, **Gerrard C**, Nolte K.  
The utility of postmortem computed tomography in supplanting autopsies in determining cause of death in pediatric trauma fatalities.

68<sup>th</sup> National Association of Medical Examiners (NAME) Annual Meeting & Exhibits;  
Charlotte, North Carolina, USA, 10/02/15 – 10/06/15.

4. **CY Gerrard\***, SL Lathrop, GM Hatch, S Williamson, J P Price, KM Lopez, SW Andrews, RE Zumwalt, ID Paul, JM Elifritz, KB Nolte  
Postmortem Computed Tomography (PMCT) in pediatric deaths attributed to asphyxia.  
4<sup>th</sup> International Society of Forensic Radiology and Imaging (ISFRI) World Congress;  
Leicester, United Kingdom, 05/14/15 – 05/16/15  
Abstract currently in press with *Journal of Forensic Radiology and Imaging (JoFRI)*
5. Hatch GM, Lathrop SL, **Gerrard CY**, Poland V, Paul ID, Mlady G, Cushnyr BW, Andrews SW, Pohl J, Wiest PW, Zumwalt RE, Price JP, Elifritz JM, Nolte KB  
Comparison of Postmortem Computed Tomography and Autopsy in Gunshot Wound Fatalities.  
4<sup>th</sup> International Society of Forensic Radiology and Imaging (ISFRI) World Congress;  
Leicester, United Kingdom, 05/14/15 – 05/16/15  
Abstract currently in press with *Journal of Forensic Radiology and Imaging (JoFRI)*
6. Hatch G, **Gerrard C**, Mlady G, Adolphi N, Elifritz J, Nolte K, Wiest P.  
The Value of Postmortem Imaging for Translational Research, Forensic Investigation, and Clinical Medicine.  
American Roentgen Ray Society (ARRS), Annual Meeting; Toronto, Canada, 04/19/15 – 04/24/15.
7. SL Lathrop\*, GM Hatch, **CY Gerrard**, S Williamson, JP Price, KM Lopez, SW Andrews, RE Zumwalt, ID Paul, JM Elifritz, KB Nolte  
A prospective double-blinded comparison of autopsy and post-mortem computed tomography (PMCT) for the evaluation of pediatric trauma deaths.  
67<sup>th</sup> American Academy of Forensic Sciences (AAFS) Annual Scientific Meeting. Orlando, FL, USA, 02/16/15 – 02/21/15.
8. Hatch GM, Elifritz JM, Biggs SM, Ruder TD, Flach PM, **Gerrard CY**, Nolte KB  
CSI Radiology: A Précis of Radiologic Identification (RADid) for the Practicing Radiologist.  
100<sup>th</sup> Annual Meeting of the Radiological Society of North America (RSNA).  
November 2014, Chicago, Illinois, USA.
9. Cushnyr BW, Lathrop SL, Hatch GM, **Gerrard CY**, Elifritz JM, Andrews SW, Paul ID, Price JP, Zumwalt RE, Nolte KB  
Utility of X-ray Computed Tomography (CT) as a Postmortem Tool for the Diagnosis of Blunt Force Head Injuries.  
20<sup>th</sup> World Meeting of the International Association of Forensic Sciences (IAFS 2014).  
October 2014, COEX, Seoul, Korea.
10. Nolte KB, Lathrop SL, Hatch GM, **Gerrard CY**, Elifritz JM, Cushnyr BW, Mlady G, Pohl J, Andrews SW, Paul ID, Price JP, Zumwalt RE, Wiest PW  
Utility of Postmortem X-ray Computed Tomography (CT) for Medicolegal Autopsies on Decedents with Blunt Force Injuries.  
20<sup>th</sup> World Meeting of the International Association of Forensic Sciences (IAFS 2014).  
October 2014, COEX, Seoul, Korea.

11. J. Elifritz, G.M. Hatch, H. Kastenbaum, **C. Gerrard**, S.L. Lathrop, K.B. Nolte.  
PMCT findings in hanging.  
J Forensic Radiol Imaging 2014; 2:97.
12. N.L. Adolphi, **C. Gerrard**, G.M. Hatch, K.B. Nolte.  
The physical basis of poor fat/muscle contrast observed at low temperatures in post-mortem MR (PMMR) imaging.  
J Forensic Radiol Imaging 2014; 2:101.
13. N.L. Adolphi, **C. Gerrard**, G.M. Hatch, N. Takacs, K.B. Nolte.  
Determining the temperature-dependence of tissue relaxation times ( $T_1$  and  $T_2$ ) for prospective optimization of post-mortem magnetic resonance (PMMR) image contrast.  
J Forensic Radiol Imaging 2013; 1:80.
14. Snyder V, Pinckard JK, Zumwalt RE, Matshes E, Hatch GM, **Gerrard C**.  
Advanced Forensic Pathology and Forensic Radiology Techniques in the Assessment of Cervical Spine and Craniocervical Junction Trauma.  
66<sup>th</sup> Annual Scientific Meeting of the American Academy of Forensic Sciences. Seattle, WA, USA. 2014.
15. D. Sandoval<sup>1\*</sup>, G Hatch<sup>2</sup>, **C Gerrard**<sup>2</sup>, P Heintz<sup>1</sup>, <sup>(1)</sup> Department of Radiology, University of New Mexico School of Medicine <sup>(2)</sup>Radiology-Pathology Center for Forensic Imaging, University of New Mexico School of Medicine.  
Validation of a Novel CT Breast Dosimetry Method in Post Mortem, Unembalmed Female Subjects.  
55<sup>th</sup> American Association of Physicists in Medicine (AAPM) Annual Meeting. August 2013. Indianapolis, Indiana, USA.  
Medical Physics. 2013. Validation of a Novel CT Breast Dosimetry Method in Post Mortem, Unembalmed Female Subjects; 40(6): 458-459.
16. Catherine R. Miller, MA\*; Michael G. Haag, BS; **Chandra Gerrard**; Gary M. Hatch, MD; Jamie Elifritz, MD; Michael C. Simmons, MD; Sarah Lathrop, DVM, PhD; Kurt B. Nolte, MD.  
Comparative Evaluation of Radiolucent Projectile Components by Radiographs and Computed Tomography.  
65<sup>th</sup> American Academy of Forensic Sciences (AAFS) Annual Meeting. Forensic Sciences Foundation Emerging Forensic Scientist Award (presentation for award consideration). February 2013.
17. **Chandra Gerrard**; Gary M. Hatch, MD; Kurt B. Nolte, N.L. Adolphi  
Determination of Post mortem Interval using non-invasive Magnetic Resonance Imaging measurement of the Apparent Diffusion Coefficient and 1-Dimensional Spectroscopy.  
65<sup>th</sup> American Academy of Forensic Sciences (AAFS) Annual Meeting. Forensic Sciences Foundation Emerging Forensic Scientist Award (presentation for award consideration). February 2013.

**PEER REVIEWED EDUCATIONAL MATERIAL**

1. **CY Gerrard.** *Data Acquisition.* University of New Mexico Hospitals, 2211 Lomas Blvd, NE, 87106, Albuquerque, NM, USA.  
American Society of Radiologic Technologists CT Basics Series, Module 3, 2009
2. **CY Gerrard.** *Image Processing and Reconstruction.* University of New Mexico Hospitals, 2211 Lomas Blvd, NE, 87106, Albuquerque, NM, USA.  
American Society of Radiologic Technologists CT Basics Series, Module 4, 2009

## BOOK CHAPTERS

1. JM Elifritz, KB Nolte, GM Hatch, NL Adolphi, and **CY Gerrard.** 2014. "Radiology, Forensic Imaging and the 'virtual autopsy'," In: McManus LN and Mitchell RN. Pathobiology of Human Disease: A Dynamic Encyclopedia of Disease Mechanisms. Elsevier, pp. 3448-3458. ISBN: 978-0-12-386457-4.

## FORMAL ACKNOWLEDGEMENTS

1. Mark D. Viner. Lecture: *Forensic Dental Radiography – a review of current techniques and future developments.* 11<sup>th</sup> International Association of Forensic Radiographers Annual Meeting, parallel session to the 5<sup>th</sup> International Society of Forensic Radiology and Imaging Congress. Amsterdam, The Netherlands. May 2016.
2. Gary M. Hatch. Lecture: *The relevance of the post-axial skeleton in cases of abusive head trauma.* World Congress on Infant Head Trauma. Plano, TX. November 2013.
3. Courtney Lapham-Simpson MD, Ryan LeBaron, MD, Michael Haag, BS, Gary M. Hatch, MD Kurt B. Nolte, MD. *A Ballistics Study of the Winchester Supreme Elite® PDX1™ Ammunition.* April 2013.

## BOOK CONTRACT

1. **CY Gerrard (Lead Author),** JM Elifritz Completion 2017  
CRC Press, Taylor & Francis Group.  
Performing Postmortem Radiographs: A Concise Guide

## NON – PEER REVIEWED PUBLICATIONS

1. **C Gerrard.** 2012. *Postmortem CT Imaging Is Like No Other Job.* ASRT Scanner, Vol.44 No.4
2. **C Gerrard.** 2011. *In the Medical Investigator's Office.* Radiologic Technology, Vol.83 No 2:189CI-191CI.

## RESEARCH FUNDING

**ACTIVE GRANTS AND CONTRACTS:**

National Institute of Justice (PI Adolphi)                      \$619,325                      01/01/17 – 12/31/18  
Title: Evaluation of the Routine Use of CT Scanning to Supplant or Supplement Autopsy in a High-Volume Medical Examiner's Office  
Submitted 04/06/2016 to: Solicitation NIJ-2016-9011, Research and Evaluation for the Testing and Interpretation of Physical Evidence in Publicly Funded Forensic Laboratories  
Role: Co-Investigator

National Institute of Justice (PI Adolphi)                      \$714,891                      01/01/17 – 12/31/19  
Title: Improving and Evaluating Computed Tomography and Magnetic Resonance Imaging in the Investigation of Fatalities Involving Suspected Head Trauma  
Submitted 02/01/2016: Solicitation NIJ-2016-4305, Research and Development in Forensic Science for Criminal Justice Purposes  
Role: Co-Investigator

National Institute of Justice – NIJ 2015-DN-BX-K018        \$36,598 (sub)              01/01/16 – 12/31/17  
(Subaward PI Adolphi)  
Title: Biomechanical Investigation of the Effect of Bone Disorders on Pediatric Femur Fracture Potential  
Role: Subaward Co-Investigator, Co-investigator [Prime PI Thompson, U. Louisville]

National Institute of Justice (PI Edgar)                      \$692,938                      01/01/17 – 12/31/18  
Title: Facilitating forensic research in multiple fields using a unique computed tomography dataset  
Submitted 02/01/2016: Solicitation NIJ 2016-4305, Research and Development in Forensic Science for Criminal Justice Purposes  
Role: Co-Investigator

Research Triangle International (RTI)                      \$81,327                      07/01/16 – 09/30/16  
International Forensic Technology Center of Excellence  
Budget proposals for 5 projects were invited by RTI; submitted 06/13/2016. The goal of these projects is to educate and inform the forensic pathology community regarding the use of advanced radiological imaging methods in death investigation, and to facilitate the adoption of these technologies by medical examiners in the U.S

1. (PI Hatch) \$49,013, Title: Development of Curriculum and Instructional Content for Workshop on Advanced Radiologic Imaging in Medicolegal Death Investigation  
Role: Co-Investigator
2. (PI Hatch) \$5,662, Title: Hosting 3-day Workshop on Advanced Radiologic Imaging in Medicolegal Death Investigation  
Role: Co-Investigator
3. (PI Gerrard) \$11,848, Title: Guidance Document on Current Best Practices for Implementing Advanced Radiological Imaging in Medicolegal Death Investigation  
Role: Principal Investigator
4. (PI Adolphi) \$3,351, Title: Webinar on Advanced Forensic Radiology: Introduction and Current Recommended Practices  
Role: Co-Investigator

5. (PI Adolphi) \$11,453, Title: Landscape Study Report on Acquiring and Implementing Post-mortem Computed Tomography in a Medical Examiner's Office  
Role: Co-Investigator

Natl Inst Justice – NIJ 2015-DN-BX-K009 \$94,960 (sub) 01/01/16 – 12/31/16  
(Subaward PI Hatch)  
Title: Development of Modern Subadult Standards: Improved Age and Sex Estimation in U.S. Forensic Practice  
Role: Co-Investigator, Co-investigator [Prime PI Stull, Idaho State]

Natl Inst Justice – NIJ 2013-DN-BX-K004 (PI Hatch) \$498,616 01/01/14 – 12/31/16  
Title: Investigation of Post-Mortem Magnetic Resonance Imaging for the Detection of Intraneural Hemorrhage  
Role: Co-Investigator

### **PAST GRANTS AND CONTRACTS**

Natl Inst Justice – NIJ 2012-DN-BX-K019 (PI Adolphi) \$575,686 01/01/13 – 06/30/16  
Title: Investigation of the Impact of Body Temperature and Post-Mortem Interval on Magnetic Resonance Imaging of Unfixed Tissue  
Role: Co-Investigator

Research Inst. at Nationwide Children's Hospital Contract  
00071785 2/CC#183511 HSC (PI Nolte) / (Prime PI Will Ray) Total / \$10,000 06/14/14 – 09/30/14  
Title: Pediatric CT Scan Study  
Role: Co-investigator

Harris Co. Inst. of Forensic Sci. PO#P226527 (PI Adolphi) \$4351 04/15/14 – 09/30/14  
Title: Radiography and Computed Tomography for Quantification of Bone Density in Infant Decedents.  
Prime award from Children's Justice Act (PI Love).  
Role: Contract Co-investigator

American Academy of Forensic Sciences (AAFS), Lucas Grant (PI Hatch) Total / \$2,940  
02/2014  
Title: Detection of Neural Injury in Shaken Infants: A Pilot Investigation Using Postmortem Magnetic Resonance Imaging  
Role: Co-Investigator

University of New Mexico, Health Sciences Center, (PI Nolte) Total / \$43,000 2014  
Office of Research  
Title: Equipment Funding Grant  
Role: Co-Investigator

Natl Inst Justice (NIJ 2010-DN-BX-K205) (PI Nolte) Total / \$895,832 1/1/11 – 12/31/13



Title: Utility of Postmortem X-ray Computed Tomography (CT) in Supplanting or Supplementing Medicolegal Autopsies

Role: Lead CT Technologist

University of New Mexico, Health Sciences Center, (PI Mercer) Total / \$17,423 12/12 – 11/13

Clinical and Translational Sciences Center.

Title: Biomechanical Evaluation of Structures Responsible for Thumb Basal Joint Stability.

Role: Co-Investigator

University of New Mexico, Health Sciences Center, HSC-20214 (PI Nolte) Total / \$1,220 09/13

Sub-award with Harris County Institute of Forensic Sciences

Title: Computer Assisted Identification Project

Role: Co-Investigator

University of New Mexico, Health Science Center, Total / \$24,244 03/01/12 – 02/28/13  
Research Allocation Committee (RAC)

Title: Incidental Breast Radiation Dose During Routine Clinical Computed Tomography: A Novel Postmortem Implanted Dosimetry Model

Role: Co-investigator

State of New Mexico Department of Health (PI Aurelius) Total / \$535,174 03/01/12 – 06/30/12

Regents of the University of New Mexico – New Mexico Mass Fatality

Title: Mass Fatality Plan for the State of New Mexico

Role: Co-Investigator

## **HONORS and AWARDS**

### **Epidemiology Traineeship Grant Recipient**

#### **Health Resources and Services Administration (HRSA)**

University of New Mexico School of Medicine

Public Health Program

Master of Public Health

*Traineeship Details: Under the guidance of Alcohol Epidemiologist Laura Tomedi, PhD, MPH, and the New Mexico Department of Health, Substance Abuse Epidemiology Section, Epidemiology and Response Division, traineeship efforts were focused on developing educational materials regarding general alcohol use in New Mexico, Alcohol Outlet Density, Alcohol Screening and Brief Intervention, and County specific factsheets on alcohol use, morbidity and mortality in McKinley County, New Mexico. Factsheets were developed for use by community members, media, legislators, physicians and educators.*

June 2015-October 2016

### **Institutional Honors – Cum Laude**

University of New Mexico School of Medicine

Bachelor of Science in Radiologic Sciences  
December 2013

**Class President**

University of New Mexico Radiologic Sciences Program - 2011 - 2012 Magnetic Resonance  
Imaging Physics Program  
September 2011

**"Best story" contribution to Pima Medical Institutes**

Association of Private Sector Colleges & Universities (APSCU)  
August 2011

**PMI Alumni Success Story**

Pima Medical Institute (PMI) - Corporate Office  
July 2011

**Pride in Excellence Award**

University of New Mexico Hospital - Radiology Department  
August 2010

**Radiologic Sciences Scholarship**

University of New Mexico Hospital - Radiology Department  
April 2006

**Director's Award for Educational Excellence**

Pima Medical Institute (PMI)  
April 2006

**VOLUNTEER**

Allied Health Professional Commencement Speech Committee Member  
Health Professions and Public Health Programs (HP/PHP)  
University of New Mexico, School of Medicine  
April 2016

Chairman of the Board  
New Mexico Society of Radiologic Technologists (NMSRT)  
April 2016 – Current

Research Manuscript Reviewer  
Mississippi Society of Radiologic Technologists (MSRT)  
Review student and technologist research papers for inclusion in 2015 MSRT annual  
conference  
September 2015

Actor

American Society of Radiologic Technologists (ASRT)  
Radcademy  
Episode 1: X-rays Are Pretty Rad!  
June 2015

Working Group – Pediatric Imaging

Subcommittee Member  
International Society of Forensic Radiology and Imaging (ISFRI)  
May 2015 – Current

President

New Mexico Society of Radiologic Technologists (NMSRT)  
April 2015 – April 2016

Committee Member

USA Liaison  
International Association of Forensic Radiographers (IAFR)  
October 2014 – Current

Working Group – Image Acquisition

Subcommittee Member  
International Society of Forensic Radiology and Imaging (ISFRI)  
May 2014 – Current

President – Elect

New Mexico Society of Radiologic Technologists (NMSRT)  
April 2014 – April 2015

Chair 2014 Annual Conference

New Mexico Society of Radiologic Technologists (NMSRT)  
April 2014

Vice President

New Mexico Society of Radiologic Technologists (NMSRT)  
April 2012 – April 2014

Interview

[www.Radiologyschools411.com](http://www.Radiologyschools411.com), regarding insight as a radiologic technologist  
October 2013

Model

*Academic Forensic Pathologist* journal  
Used in manuscript: Postmortem X-ray Computed Tomography (CT) and Forensic Autopsy: A Review of the Utility, the Challenges and the Future Implications  
May 2011

Model

American Society of Radiologic Technologists (ASRT) *Scanner* magazine and future publications  
March 2011

Beta student for the Quality Management (Didactic and Clinical)  
University of New Mexico, School of Medicine  
Radiologic Sciences Program  
2010

Contributor to the Alliance for Radiation Safety in Pediatric Imaging (ARSPI) forum for the  
nationwide “Image Gently” campaign  
American Society of Radiologic Technologists (ASRT)  
2009

Beta tester for the Online Digital Imaging Academy (ODIA)  
American Society of Radiologic Technologists (ASRT)  
2008