

Curriculum Vitae
May 2017

Kristine A. Blackham, M.D.

Department of Radiology and Nuclear Medicine

University Hospital Basel

Petersgraben 4

4056 Basel, Switzerland

EDUCATION:

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| 2004 – 2006 | Fellowship, Diagnostic and Interventional Radiology, University Hospitals of Cleveland, Cleveland, Ohio |
| 2000 – 2004 | Residency, University Hospitals of Cleveland, Department of Radiology, Cleveland, Ohio |
| 1999 – 2000 | Internship, University Hospitals of Cleveland, Department of Radiology, Cleveland, Ohio |
| 1994 – 1999 | Doctorate of Medicine, Case Western Reserve University, Cleveland, Ohio |
| 1987 – 1992 | Bachelor of Science, Biology, Cleveland State University, Cleveland, Ohio |

LICENSURE AND BOARD CERTIFICATION:

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| 2006 | Diplomate with Certificate of Added Qualification in Neuroradiology, American Board of Radiology. MOC 2015 |
| 2015 | Medical License, State Medical Board of Ohio |
| 2004 | Diplomate, American Board of Radiology |

PROFESSIONAL APPOINTMENTS:

- 2015 – Present Attending NeuroInterventional Radiologist
University Hospital Basel, Basel Switzerland
- 2009 – Present Program Director, Neuroradiology Fellowship
University Hospitals of Cleveland, Cleveland, OH
- 2007 – Present Assistant Professor, Department of Radiology
Case Western Reserve University, Cleveland, OH
- 2006 – Present Clinical Instructor, Department of Radiology
Case Western Reserve University, Cleveland, OH

LEADERSHIP TRAINING:

- 2017 Association of University Radiologists Radiology Management Program
- 2012 Scholarship in Teaching and Learning Program
Case Western Reserve University, School of Medicine
- 2012 Harvard Macy Program for Educators in Health Professions
- 2011 Women in Leadership Certificate Program
Case Western Reserve University, Weatherhead School of Management
- 2010 Clinical Trials Methodology Workshop, Radiological Society of North
America

PROFESSIONAL SOCIETY MEMBERSHIP AND SERVICE:

- 2011 American Heart Association
 - 2011-2014 Scientific Program Committee, International Stroke
Conference
 - 2012 Moderator, International Stroke Conference

- 2011 American College of Radiology (ACR)
2012-2015 Coding and Nomenclature Committee
2015-present Standards and Guidelines Committee
- 2010 American Society for Neuroradiology
2017 Moderator, Annual Meeting
2016 Moderator, Annual Meeting
2013 Moderator, Annual Meeting
2011-present Standards and Guidelines Subcommittee
- 2008 American Roentgen-Ray Society (ARRS)
2009-2012 Scientific Program Subcommittee
- 2007 Society of Neurointerventional Surgery
2017 Annual Meeting Program Committee
2012-2105 Assistant Editor, Journal of Neurointerventional Surgery
2012 Program Committee and Moderator, Annual Meeting
2011 Chair, Program Committee, 9th Practicum
2010 Program Committee and Moderator, 8th Practicum
2008-2015 Standards and Guidelines Committee
- 2001 Radiological Society of North America (RSNA)
2013 Moderator, Scientific Assembly and Annual Meeting
2012 Moderator, Scientific Assembly and Annual Meeting

PROFESSIONAL AWARDS:

- 2012** Scholarship in Teaching Award, Case Western Reserve University
2011. Junior Faculty Professional Development Award, Women Faculty of the School of
Medicine, Case Western Reserve University
- 2006 Radiological Society of North America Certificate of Merit Award for: Blackham
KA, Lin T, Bangert BA: Third Ventriculostomy and the Treatment of
Hydrocephalus: Indications, Techniques and Cine Phase Contrast MR
Imaging
- 2001 Resident Research Award, Marconi Medical Systems

REVIEWER:

- 2009 Journal of Neurointerventional Surgery
- 2010 Neurosurgery
- 2013 Circulation
- 2013 Journal of Neuroimaging

CHAPTERS IN A BOOK:

1. Selman WR, **Blackham KA**, Tarr RW, Ratcheson RA. Arteriovenous Malformations, In: *Neurology in Clinical Practice: Principles of Diagnosis and Management, 5th Edition*, Volume II, Bradley WG, Daroff RB, Fenichel GM, Jankovic J (Eds). Butterworth-Heinemann, Philadelphia, Pennsylvania, pp. 1259–1271, 2007
2. **Blackham KA**, Sunshine JL. The Spinal Cord, In: *Computed Tomography and Magnetic Resonance Imaging of the Whole Body*, Volume I, Haaga JR, Lanzieri CF, (Eds). Mosby, Inc., St. Louis, Missouri, 2009

3. **Blackham KA**, Hsu DP, Wilson JA, Tarr, RT. Intraarterial Chemical Thrombolysis, In: *Surgical Endovascular Neuroradiology*, Prestigiacomo, CJ (Ed). Thieme Medical Publishers Inc, New York City, New York, 2012
4. Nanda A, **Blackham KA**. Endovascular management of posterior fossa atherosclerotic disease. In: *Surgery of the Craniovertebral Junction*. 2nd ed. Bambakidis NC, Dickman CA, Spetzler RF, Sonntag VKH, eds New York, New York: Thieme Medical Publishers, 2012
5. **Blackham KA**, Vidal LL. Computerized Axial Tomography, including CTA, In: *Encyclopedia of Neurological Sciences* 2nd edition, Michael J. Aminoff and Robert B. Daroff, eds Oxford, UK, Elsevier Ltd, 2013

PUBLICATIONS:

1. D.T. Boll, R.C. Gilkeson, T.R. Fleiter, **Blackham KA**, J.L. Duerk, J.S. Lewin, Volumetric assessment of Pulmonary Nodules with ECG-gated MDCT, *Am J Roentgenol*. Nov; 183(5):1217–23. 2004
2. D.T. Boll, H. Bulow, **Blackham KA**, A.J. Aschoff, B. Schmitz B, MDCT Angiography of the Spinal Vasculature and the Artery of Adamkiewicz, *Am J Roentgenol*. Oct; 187(4): 105–60. 2006
3. S. Pundik, L. McWilliams-Dunnigan, **Blackham KA**, H.L. Kirchner, S. Sundararajan, J.L. Sunshine, R.W. Tarr, W.R. Selman, D.M. Landis, J.I. Suarez, Older Age does not Increase Risk of Hemorrhagic Complications after Intravenous and/or Intra-arterial Thrombolysis for Acute Stroke, *J Stroke Cerebrovasc Dis*. Sep;17(5):266–72. 2008

4. C. Grommes, R. Oghlakian, **Blackham KA**, M.A. De Georgia, Corpus Callosum Dysgenesis Limits MRI Changes to One Hemisphere in Status Epilepticus. *Neurology*, Mar 10; 72(10):942. 2009
5. **Blackham KA**, R.W. Tarr. Stroke: The Vacuum Cleaner for Stroke. *Nature Reviews Neurology*, Nov; 5(11):582–3. 2009 Invited Commentary
6. **Blackham KA**. Extensive dural sinus thrombosis: successful recanalization with thrombolysis and a novel thrombectomy device. *J Neurosurg*. 2011 Jan; 114(1):133-5.
7. Parikh PT, Sandhu GS, **Blackham KA**, et al. Evaluation of Image Quality of a 32-Channel versus a 12-Channel Head Coil at 1.5T for MR Imaging of the Brain. *AJNR Am J Neuroradiol*. 2011 Feb;32(2):365-73
8. **Blackham KA**, M. A. Passalacqua, G. S. Sandhu, R. C. Gilkeson, M. A. Griswold, V. Gulani, Time-resolved MR Angiography for Problem Solving and Evaluation of Vascular Abnormalities, *AJR Am J Roentgenol*. 2011 May;196(5):W613-20.
9. Nyberg E, **Blackham KA**, Sunshine JL, et al. Comparison of Brain MR Images at 1.5 T using BLADE and Rectilinear Techniques for Patients Who Moved During data Acquisition, *AJNR Am J Neuroradiol*. 2012 Jan;33(1):77-82.
10. Meyers PM, **Blackham KA**, Abruzzo TA, Gandhi CD, Higashida RT, Hirsch JA, et al. Society of NeuroInterventional Surgery Standards of Practice: General Considerations. *J NeuroInterv Surg*. 2012 Jan 1;4(1):11-5.
11. Sandhu GS, Parikh PT, Hsu DP, **Blackham KA**, Tarr RW, Sunshine JL. Outcomes of intra-arterial thrombolytic treatment in acute ischemic stroke patients with a matched defect on diffusion and perfusion MR images. *J Neurointerv Surg*. 2012 Mar;4(2):105-9.
12. **Blackham KA**, Meyers PM, Abruzzo TA, Albuquerque FC, Fiorella D, Fraser J, Frei D, Gandhi CD, Heck DV, Hirsch JA, Hsu DP, Jayaraman M, Narayanan S, Prestigiacomo C, Sunshine JL. Endovascular therapy of acute ischemic stroke: report of the Standards of Practice Committee of the Society of NeuroInterventional. Surgery, *J Neurointerv Surg*. 2012 Mar;4(2):87-9313.
13. Abruzzo T, Moran C, **Blackham KA**, Eskey CJ, Lev R, Meyers P, Narayanan S, Prestigiacomo CJ. Invasive interventional management of post-hemorrhagic cerebral

- vasospasm in patients with aneurismal subarachnoid hemorrhage. *J Neurointerv Surg.* 2012 May;4(3):169-77.
14. Jayaraman MV, Meyers PM, Derdeyn CP, Fraser JF, Hirsch JA, **Blackham KA**, Hussein, S. et al. Reporting Standards for Angiographic Evaluation and Endovascular Treatment of Cerebral Arteriovenous Malformations. *J Neurointerv Surg.* 2012 Sep;4(5):325-30.
15. Hussain MS, Fraser JF, Abruzzo T, **Blackham KA**, Bulsara KR, Derdeyn CP, Gandhi CD, Hirsch JA, Hsu DP, Jayaraman MV, Meyers PM, Narayanan S, Prestigiacomo CJ, Rasmussen PA; Society for NeuroInterventional Surgery. Standard of practice: endovascular treatment of intracranial atherosclerosis. *J Neurointerv Surg.* 2012 Nov; 4(6):397-406.
16. Narayanan S, Hurst RW, Abruzzo TA, Albuquerque FC, **Blackham KA**, Bulsara KR, Derdeyn CP, Gandhi CD, Hirsch JA, Hsu DP, Hussain MS, Jayaraman MV, Meyers PM, Patsalides A, Prestigiacomo CJ. Standard of practice: embolization of spine arteriovenous fistulae, spinal arteriovenous malformations, and tumors of the spinal axis. *J Neurointerv Surg.* 2013 Jan 1;5(1):3-5.
17. Fraser JF, Hussain MS, Eskey C, Abruzzo T, Bulsara K, English J, **Blackham K**, Do HM, Prestigiacomo C, Jayaraman MV, Patsalides A, Kelly M, Sunshine JL, Meyers P; Society for NeuroInterventional Surgery. Reporting standards for endovascular chemotherapy of head, neck and CNS tumors. *J Neurointerv Surg.* 2013 Sep 1;5(5):396-9
18. Powers CJ, Hirsch JA, Hussain MS, Patsalides AT, **Blackham KA**, Narayanan S, Lee SK, Fraser JF, Bulsara KR, Prestigiacomo CJ, Gandhi CD, Abruzzo T, Do HM, Meyers PM, Albuquerque FC, Frei D, Kelly ME, Pride GL, Jayaraman MV; Standards and Guidelines committee of the Society of NeuroInterventional Surgery. *J Neurointerv Surg.* 2014 Mar 1;6(2):87-90. doi: 10.1136/neurintsurg-2013-011013. Epub 2013 Nov 6.
19. Powers CJ, Hirsch JA, Hussain MS, Patsalides AT, **Blackham KA**, Narayanan S, Lee SK, Fraser JF, Bulsara KR, Prestigiacomo CJ, Gandhi CD, Abruzzo T, Do HM, Meyers PM, Albuquerque FC, Frei D, Kelly ME, Pride GL, Jayaraman MV; on behalf of the Standards and Guidelines committee of the Society of NeuroInterventional Surgery.

Standards of practice and reporting standards for carotid artery angioplasty and stenting.
J Neurointerv Surg. 2013 Nov 12

20. Talke PO, Sharma D, Heyer EJ, Bergese SD, **Blackham KA**, Stevens RD. Society for Neuroscience in Anesthesiology and Critical Care Expert Consensus Statement: Anesthetic Management of Endovascular Treatment for Acute Ischemic Stroke: Endorsed by the Society of NeuroInterventional Surgery and the Neurocritical Care Society. J Neurosurg Anesthesiol. 2014 Apr;26(2):95-108. doi: 10.1097/ANA.0000000000000042.

PEER-REVIEWED ORAL PRESENTATIONS:

1. **Blackham KA**, K.A. Applegate, “Comparison of Oral vs. Rectal Contrast for the Evaluation of Appendicitis in Children”, Radiological Society of North America, Scientific Assembly and Annual Meeting, Chicago 2001
2. D.T. Boll, R.C. Gilkeson, T.R. Fleiter , **Blackham KA**, J.L. Duerk, J.S. Lewin “Volumetric assessment of pulmonary nodules with ECG-gated MDCT”, Radiological Society of North America, Scientific Assembly Annual Meeting, Chicago, 2004
3. S. Pundik, L. McWilliams-Dunnigan, **Blackham KA**, S. Sundararajan, J.L. Sunshine, R.W. Tarr, "Symptomatic Intracranial Hemorrhage Rate in Elderly Patients Following Thrombolysis in Acute Stroke”, Radiological Society of North America, Scientific Assembly and Annual Meeting, Chicago 2007
4. **Blackham KA**, S. Chowdhry, N.C. Bambakidis, “Complication Rate of Endovascular Re-treatment of Previously Coiled Aneurysms”, American Association of Neurological Surgeons/Congress of Neurological Surgeons Annual Meeting, Cerebrovascular Section, San Antonio Feb 2010
5. H Yarmohammadi, N Salem, D P Hsu, J Sharma, R W Tarr, J L Sunshine, and **Blackham KA**, “Diagnostic accuracy of Contrast Enhanced MR angiography and three-dimensional time-of-flight MR angiography compared to digital subtraction angiography in follow up evaluation of intracranial aneurysms treated with coils and the essential sequences,” Radiological Society of North America, Scientific Assembly and Annual Meeting, Chicago 2011
6. Weinfurtner J, **Blackham KA** “Microbial Encephalitis, from Presentation to Diagnosis: a Clinical and Imaging Case Series “, 12th Annual Meeting of the American Roentgen Ray Society, Vancouver, Canada, April 29-May 4, 2012
7. Kochar A, Jung R, **Blackham KA**, “Computed Tomography or Magnetic Resonance Perfusion Imaging Benefits Selection of Acute Ischemic Stroke Patients for Endovascular Treatment”, International Stroke Conference, Honolulu, HI 2013

8. Sharon J. Lin, Chaitra Badve, Lorena L.M. Vidal, David W. Jordan, **Blackham KA**, “Unexpectedly high radiation doses using flat panel detectors with increasing magnification”, American Society of Neuroradiology, San Diego, CA 2013

PEER-REVIEWED POSTERS AND EDUCATIONAL EXHIBITS:

1. **K.A. Blackham**, D.T. Boll, E.M. Merkle, “MRI Findings in the Pregnant Patient with Abdominal Pain”, Poster presentation, Radiological Society of North America, Scientific Assembly and Annual Meeting, Chicago 2002
2. **K.A. Blackham**, J. Nathan, D.T. Boll, “Review of CT and MRI Findings of Developing Myelin From Pre-natal Age through 2 years, including Comparison and Contrast with Dysmyelinating Disorders,” Education Exhibit: RSNA, Chicago 2007
3. **K.A. Blackham**, G.S. Sandhu, M.A. Griswold, R.C. Gilkeson, V. Gulani, “Time-resolved MR Angiography with stochastic K-space sampling scheme: Robust and Fluoroscopic vascular MR Imaging from Head to Toe,” 21st Annual International Conference on Magnetic Resonance Angiography (MRA Club), East Lansing, MI 2009
4. G.S. Sandhu, P. Parikh, R.W. Tarr, **K.A. Blackham**, D.P. Hsu, J.L. Sunshine, “Intra-arterial Thrombolytic Therapy of Acute Ischemic Stroke Patients with a Diffusion-Perfusion Matched Defect,” International Stroke Conference, San Antonio 2010
5. R.W. Tarr, R.C. Gilkeson, D.P. Hsu, **K.A. Blackham**, “Assessment of Automated Bone Removal for CT Angiography of the Skull Base Comparing Sequential Single Energy CT with Simultaneous Dual Energy Extraction Techniques: Differences in Radiation Dose and Post processing Results,” American Roentgen Ray Society, San Diego 2010
6. Parikh P, Sandhu GS, **Blackham KA**, Hsu DP, Tarr RW Sunshine JL. A Qualitative comparison of Magnetic Resonance Images of Brain acquired using phased-array Head coils with 32 and 12 array elements at 1.5 Tesla. American Society of Neuroradiology (ASNR). Boston 2010.

7. Jitendra Sharma, Sonal Mehta, Shakeel Chowdhry, Neelima Tummala, Ashish Nanda, **Kristine Blackham**, “Endovascular Treatment Outcomes in Acute Stroke Patients with Distal MCA lesions”, International Stroke Conference, Los Angeles 2011
8. Cory Kultlick, Les Ciancibello, Bonnie Ahn, **Kristine Blackham**, “A Tailored Approach to CT Perfusion: Scan Quality Improvement and Radiation Dose Reduction,” Education Exhibit. American Roentgen Ray Society 2011
9. Jitendra Sharma, Ashish Kulhari, Siddharth Sehgal, Richard Jung, **Kristine A Blackham** “Safety and Efficacy of Antiplatelet Monotherapy (clopidogrel) in Stent Assisted Elective Coil Embolization of Cerebral Aneurysms”, International Stroke Conference, New Orleans 2012
10. Jitendra Sharma, Bryan Bonder, Richard Jung, **Kristine A Blackham** “Incidence of Vasospasm and Outcomes in Angiography-negative Perimesencephalic Subarachnoid Hemorrhage with and without Ventricular Extension”, International Stroke Conference, New Orleans 2012
11. Pooria Javadi, **Kristine Blackham** “Fluoroscopic Flat Panel Detectors versus Image Intensifier Technology for Neuroangiography Education”, American Society for Neuroradiology 50th Annual Meeting, New York 2012
12. Javadi P, Etesami M, **Blackham KA**. “Risk of Contrast Induced Nephropathy in Patients Undergoing Treatment for Acute Stroke”, American Society for Neuroradiology, San Diego 2013
13. Vidal I, Badve C, Bambakidis, NC, **Blackham KA**, Sunshine, JL “Advanced MR Imaging in Peritrolandic Brain Tumors”, Radiological Society of North America, Scientific Assembly and Annual Meeting, Chicago 2013

INVITED LECTURES:

1. Congress of Spinal Cord Medicine and Rehabilitation, Kissimmee, FL. “Imaging of Non-traumatic Spinal Cord Abnormalities”, 2008

2. American Society of Neuroradiology (ASNR), New Orleans, LA. “Imaging Paradigms for Endovascular Aneurysm Treatment Follow-up”, 2008
3. Cleveland Neurocritical Care and Stroke Conference, Cleveland, OH. “Cerebral Sinus Venous Thrombosis”, 2008
4. Vieth 17th Annual Symposium on Current Issues and New Techniques in Interventional Radiology and Endovascular Therapy, NY. “Acute Stroke Imaging: Perfusion Methods and Implications”, 2009
5. Cleveland Neurocritical Care and Stroke Conference, Cleveland, OH. “Advances in Brain Imaging for Acute Stroke”, 2010
6. 5th Annual UH Neuroscience Nursing Symposium – Focus on Stroke, Cleveland, OH. “Interventional Management of Stroke”, 2010
7. Cleveland Neurocritical Care and Stroke Conference, Cleveland, OH. “Neuroimaging in Ischemic Stroke” and “Neuroimaging in Hemorrhagic Stroke”, 2011
8. Neurology Grand Rounds, University Hospitals of Cleveland, Cleveland, OH. “Latest Paradigms in Endovascular Treatment of Acute Ischemic Stroke”, 2011
9. Imaging Solutions in Cancer Management: A Case Based Conference, University Hospitals Seidman Cancer Center, Cleveland, OH. “Applications of Advanced Imaging”, 2011
10. New Era International Multidisciplinary Sharing (NEIMS) - Updates on Cerebrovascular Disease: Management and Outcomes - A Global Perspective, Cleveland Clinic Foundation, Las Vegas. “Streamlining the Process of Imaging Analysis”, 2012
- 11.** International Endovascular Stroke Conference (IESC)/Cerebrovascular Section, Honolulu. “Health Care Payment Reform and Quality Reporting”, 2013
12. Emergency Radiology Conference, Madrid. “Case-based Neurological Emergencies”, 2013
- 13.** New Era International Multidisciplinary Sharing (NEIMS), Beijing. “The Emerging Role of OCT in the Carotids”, 2013
14. Radiological Society of North America, Scientific Assembly and Annual Meeting, Chicago. “Case Based Neurointerventional Techniques”, 2013

RESEARCH SUPPORT AND ACTIVITIES:

1. External Research Funding

Principal Investigator, Hospira Inc., investigator-sponsored research, “A Randomized, Controlled Trial on Dexmedetomidine for Providing Adequate Sedation and Preserved Neurologic Examination for the Endovascular Treatment of Acute Ischemic Stroke”, 2011-current, **5% effort. Total award \$71, 000**

2. Past and Present Activities as Co-Investigator

NIH funded

- Interventional Management of Stroke (IMS) III. Comparison of recanalization of combined intravenous and intra-arterial to standard IV rt-PA alone when initiated within three hours of acute ischemic stroke onset. 2006 – 2010.

Sponsored Drug/Device Company FDA Studies

- Conscious 3. Clazosentan in Reducing Vasospasm-Related Morbidity and All-Cause Mortality in Adult Patient with Aneurysmal Subarachnoid Hemorrhage Treated by Endovascular Coiling. Sponsored by Actelion. 2009 – 2010.
- MERCI Registry. Assessment of Clinical Use of the Merci Retriever for Thrombus Removal in Acute Ischemic Stroke. Sponsored by Concentric Medical. 2009 – Present.
- Penumbra Registry. Assessment of Clinical Experience of the Penumbra System and Determination of Correlation between the Imaging-defined Size of the Ischemic Penumbra at Admission and Patient Outcome in Patients already Treated by the System. Sponsored by Penumbra, Inc. 2009 – 2010.

- SAPPHIRE post-FDA approval Carotid Stent Registry. Assessment of Clinical Experience with Carotid Stenting and Angioplasty with Distal Protection using Cordis System. Sponsored by Cordis. 2008 – Present.
- PAC trial. Assessment of the angiographic outcomes and morbidity-mortality of endovascular treatment of large and giant aneurysms using Cerecyte coils. Sponsored by Micrus Corp. 2010 – Present