

Air Quality Commission

At-A-Glance

Eligible for Reappointment

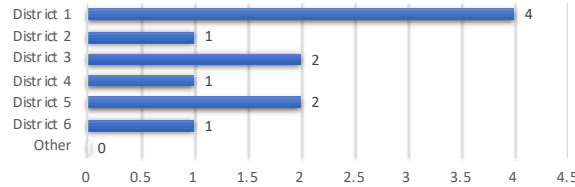
| Name | District | Gender | Ethnicity |
|---------------|----------|--------|------------------------|
| Powers, Billy | 1 | Male | Other |
| Welke, Karl | 5 | Male | Caucasian/Non-Hispanic |

AIR QUALITY COMMISSION DEMOGRAPHICS

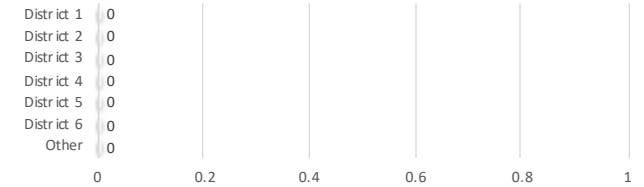
Districts

| | Members | Applicants |
|--------------|-----------|------------|
| District 1 | 4 | 0 |
| District 2 | 1 | 0 |
| District 3 | 2 | 0 |
| District 4 | 1 | 0 |
| District 5 | 2 | 0 |
| District 6 | 1 | 0 |
| Other | 0 | 0 |
| Total | 11 | 0 |

Members by District



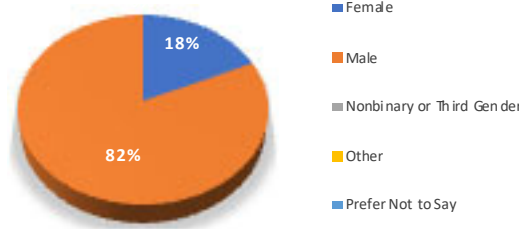
Applicants by District



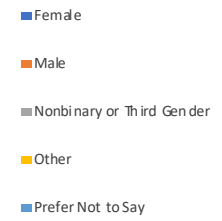
Gender

| | Members | Applicants |
|---------------------------|-----------|------------|
| Female | 2 | 0 |
| Male | 9 | 0 |
| Nonbinary or Third Gender | 0 | 0 |
| Other | 0 | 0 |
| Prefer Not to Say | 0 | 0 |
| Total | 11 | 0 |

Members by Gender



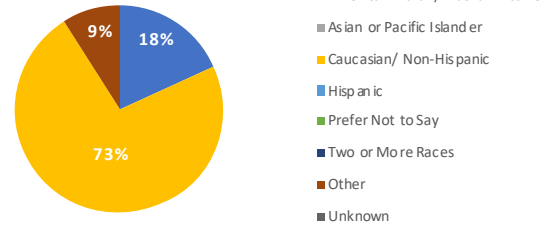
Applicants by Gender



Ethnicity/Race

| | Members | Applicants |
|---------------------------------|-----------|------------|
| African-American | 2 | 0 |
| American Indian/ Alaskan Native | 0 | 0 |
| Asian or Pacific Islander | 0 | 0 |
| Caucasian/ Non-Hispanic | 8 | 0 |
| Hispanic | 0 | 0 |
| Prefer Not to Say | 0 | 0 |
| Two or More Races | 0 | 0 |
| Other | 1 | 0 |
| Unknown | 0 | 0 |
| Total | 11 | 0 |

Members by Ethnicity/Race



Applicants by Ethnicity/Race



Air Quality Commission

Eligible for Reappointment

| Name | District | Gender | Ethnicity |
|---------------|----------|--------|------------------------|
| Powers, Billy | 1 | Male | Other |
| Welke, Karl | 5 | Male | Caucasian/Non-Hispanic |

Statement to Applicants

Profile**Which Boards would you like to apply for?**

Air Quality Commission: Submitted

Billy

First Name

Powers

Last Name

What other names have you used? (includes, legal names, aliases, maiden names or professional monikers) NOTE: If none, please note N/A

Bill, William, Bishop

mrpowers1@gmail.com

Email Address

3111 Ernest Russell Ct

Home Address

Charlotte

City

NC

State

28269

Postal Code

Business: (704) 685-3789

Primary Phone

Home: (704) 685-3789

Alternate Phone

What Mecklenburg County District do you live in? Please verify below. *

 1**How long have you been a resident of Mecklenburg County? Please include months, or years.**

5yrs

My age range is (please select one): *

 46 to 55**Ethnicity ***

 Other**Gender ***

 Male

Interests & Experiences

Billy Powers

Education

South Mecklenburg High Central Piedmont Belmont Abbey College

Specially Delivery and
Logistics

Employer

Logistics Manager

Occupation

Business and civic experience

Notary Public,E-Notary,Project Manager, Logistics Management,3yrs on the Mecklenburg County Air Quality Commission.

Area of expertise and interests/skills

Transportation and logistics. Project Management, 3yrs on the Mecklenburg County Air Quality Commission. 4 years as a Hospice Volunteer for Gaston County.

Additional Information

If you are or have ever served on a Mecklenburg County board/commission, please answer yes or no. If yes, please disclose the Board and term-end date.

3yrs on the Mecklenburg County Air Quality Commission.

Why are you interested in serving on the board(s) to which you are applying?

To get gain a better insight into the Air quality process and what it entails so that I may help educate others through the community. To serve my community and to be able to bring back to the community information and skills that may help educate the public in local civil processes. To show the community that anyone can get involved with local civic ventures that doesn't require a Masters degree.

Have you attended a meeting of the advisory board(s) to which you are applying?

Yes No

Hours Per Month Available for Position

20

How did you learn of the vacancy? *

NotifyMe Email

If you answered other - Where did you learn of this vacancy?

Email

Disclosure

Billy Powers

Are you a Mecklenburg County resident?

Yes No

Are you a current Mecklenburg County employee? (Mecklenburg County employees are prohibited from serving on any board where appointments are made by the Board of Commissioners. If you are a current, county employee who is to serve in an ex-officio and/or non-voting capacity on any board when required by law, please email clerk@mecknc.gov before submitting an application.)

Yes No

Are you a current vendor with Mecklenburg County?

Yes No

• Do you have any personal or business interest that could create a conflict (either real or perceived) if appointed? If yes, please explain the conflict.

Yes No

Disclaimer

I, hereby, authorize Mecklenburg County to verify all information included in this application. I certify that I have read the appointment policy and that the information contained in this application is true according to the best of my knowledge and belief. I certify that I am providing my legal name and address in which I reside. I understand that inaccurate or untrue information will be cause for removal from any appointed advisory board. By submitting this application, I agree to adhere to all County policies pertaining to advisory boards, including attendance. I understand if I do not achieve 65% annual attendance, I will be automatically removed from the board or commission to which I am appointed. I understand that this application is subject to the N.C. Public Records Law (NCGS § 132-1) and may be released upon request.

I Agree

Signature of Applicant (Sign Your Legal Name):

Billy c powers

Board Specific Questions

Question applies to Air Quality Commission

AQC: Which of the following represents your vocation or interest? *

Transportation

Statement to Applicants

Profile**Which Boards would you like to apply for?**

Air Quality Commission: Appointed

Karl

First Name

F

Middle
Initial

Welke

Last Name

What other names have you used? (includes, legal names, aliases, maiden names or professional monikers) NOTE: If none, please note N/A

karlwelke@gmail.com

Email Address

3115 Wickersham Road

Home Address

Charlotte

City

NC

State

28211

Postal Code

What Mecklenburg County District do you live in? Please verify below. *

 5**How long have you been a resident of Mecklenburg County? Please include months, or years.**

3.5 years

My age range is (please select one): *

 46-55**Ethnicity ***

 Caucasian/Non-Hispanic**Gender ***

 Male

Interests & Experiences

Education

Undergraduate B.S.E. University of Michigan, College of Engineering 1990 (Engineering Science) Ann Arbor, MI cum laude Medical School M.D. University of Illinois, College of Medicine 1994 Peoria, IL Graduate School M.S. Center for the Evaluative Clinical Sciences 2001 (Health Care Improvement) Dartmouth College, Hanover, NH Residency Surgery Dartmouth-Hitchcock Medical Center 1994-2000 Residency Lebanon, NH Thoracic Surgery The University of Iowa Hospitals and Clinics 2001-2004 Residency Iowa City, IA Fellowships Research Fellowship Dartmouth-Hitchcock Medical Center 1996-1997 Vascular Surgery Lebanon, NH Research Fellowship Graduate Training Program in Clinical Investigation 2001-2003 Outcomes and The University of Iowa Hospitals and Clinics Health Services Research Iowa City, IA Congenital Cardiac Surgery Oregon Health and Science University 2004-2006 Fellowship Portland, OR

Atrium Health

Employer

Congenital Cardiothoracic
Surgeon

Occupation

Business and civic experience

I have served numerous professional committees, but have not held a public office or served on a public board or committee.

Area of expertise and interests/skills

As a congenital cardiothoracic surgeon, I am versed in cardiopulmonary physiology and pathology. As a researcher I understand statistics, study design, and data interpretation. As a master beekeeper, I am alert to the presence of environmental contaminants and their impact on people, insects and other animals. Having been raised in a rural environment and now living in an urban one, I understand that the issues and concerns of people in each area may be different even if the overall goal may be the same. As a parent, I want the air in Mecklenburg County to be safe for my children to breath. As a citizen and one who works to care for everyone equally, I am concerned that environmental health hazards disproportionately burden communities of color and lower socioeconomic status.

Additional Information

If you are or have ever served on a Mecklenburg County board/commission, please answer yes or no. If yes, please disclose the Board and term-end date.

N/A

Why are you interested in serving on the board(s) to which you are applying?

I am passionate about heath and how our health is impacted by our environment. I have a desire to improve our community and the Air Quality Commission is one where my combination of interests and skills may allow me to make a positive impact.

Have you attended a meeting of the advisory board(s) to which you are applying?

Yes No

Hours Per Month Available for Position

10

How did you learn of the vacancy? *

Mecklenburg County Website

[Welke_CV_Current_Word_Atrium_Format_PDF.pdf](#)

Upload a Resume

Disclosure

Are you a Mecklenburg County resident?

Yes No

Are you a current Mecklenburg County employee? (Mecklenburg County employees are prohibited from serving on any board where appointments are made by the Board of Commissioners. If you are a current, county employee who is to serve in an ex-officio and/or non-voting capacity on any board when required by law, please email clerk@mecknc.gov before submitting an application.)

Yes No

Are you a current vendor with Mecklenburg County?

Yes No

• Do you have any personal or business interest that could create a conflict (either real or perceived) if appointed? If yes, please explain the conflict.

Yes No

Disclaimer

I, hereby, authorize Mecklenburg County to verify all information included in this application. I certify that I have read the appointment policy and that the information contained in this application is true according to the best of my knowledge and belief. I certify that I am providing my legal name and address in which I reside. I understand that inaccurate or untrue information will be cause for removal from any appointed advisory board. By submitting this application, I agree to adhere to all County policies pertaining to advisory boards, including attendance. I understand if I do not achieve 65% annual attendance, I will be automatically removed from the board or commission to which I am appointed. I understand that this application is subject to the N.C. Public Records Law (NCGS § 132-1) and may be released upon request.

I Agree

Signature of Applicant (Sign Your Legal Name):

Karl F. Welke

Karl F Welke

Board Specific Questions

Question applies to Air Quality Commission

AQC: Which of the following represents your vocation or interest? *

Health Professional

Karl Frederick Welke, M.D., M.S.
Curriculum Vitae

Personal

Office Address Levine Children's Hospital / Atrium Health
1001 Blythe Blvd. Suite 200D
Charlotte, NC 28203

Citizenship United States of America

Education

Undergraduate

B.S.E. University of Michigan, College of Engineering 1990
(Engineering Science) Ann Arbor, MI *cum laude*

Medical School

M.D. University of Illinois, College of Medicine 1994
Peoria, IL

Graduate School

M.S. Center for the Evaluative Clinical Sciences 2001
(Health Care Improvement) Dartmouth College, Hanover, NH

Residency

Surgery Dartmouth-Hitchcock Medical Center 1994-2000
Residency Lebanon, NH

Thoracic Surgery The University of Iowa Hospitals and Clinics 2001-2004
Residency Iowa City, IA

Fellowships

Research Fellowship Dartmouth-Hitchcock Medical Center 1996-1997
Vascular Surgery Lebanon, NH

Research Fellowship Graduate Training Program in Clinical Investigation 2001-2003
Outcomes and The University of Iowa Hospitals and Clinics
Health Services Research Iowa City, IA

Congenital Cardiac Surgery Oregon Health and Science University 2004-2006
Fellowship Portland, OR

Professional

Academic Appointments

| | | |
|--|--|--------------|
| Clinical Assistant Professor | University of North Carolina at Chapel Hill Department of Medicine, Chapel Hill, NC | 2017-present |
| Visiting Clinical Professor of Surgery | University of Illinois College of Medicine Peoria, IL | 2013-2017 |
| Acting Associate Professor Cardiothoracic Surgery | University of Washington Seattle, WA | 2011-2013 |
| Associate Professor Cardiothoracic Surgery | Oregon Health and Science University Portland, OR | 2009-2010 |
| Assistant Professor Cardiothoracic Surgery | Oregon Health and Science University Portland, OR | 2006-2009 |
| Instructor Cardiothoracic Surgery | Oregon Health and Science University Portland, OR | 2004-2006 |
| Fellow Associate Cardiothoracic Surgery | University of Iowa, College of Medicine Iowa City, IA | 2001-2004 |
| Instructor Surgery | Dartmouth Medical School Hanover, NH | 1999-2001 |

Professional Positions

| | | |
|------------------|---|--------------|
| Staff Surgeon | Levine Children's Hospital / Atrium Health Charlotte, NC | 2017-present |
| Director of ECMO | Children's Hospital of Illinois Peoria, IL | 2014-2017 |
| Staff Surgeon | Children's Hospital of Illinois Peoria, IL | 2013-2017 |
| Staff Surgeon | University of Washington Medical Center Seattle, WA | 2012-2013 |
| Staff Surgeon | Harborview Medical Center Seattle, WA | 2012-2013 |

| | | |
|---------------|--|-----------|
| Staff Surgeon | Seattle Children's Hospital Seattle, WA | 2011-2013 |
| Staff Surgeon | Swedish Medical Center Seattle, WA | 2010-2013 |
| Staff Surgeon | Mary Bridge Children's Hospital MultiCare Health System, Tacoma, WA | 2009-2013 |
| Staff Surgeon | Tacoma General Hospital MultiCare Health System, Tacoma, WA | 2009-2013 |
| Staff Surgeon | Division of Cardiothoracic Surgery Oregon Health and Science University Portland, OR | 2004-2009 |
| Staff Surgeon | Department of Veterans Affairs Medical Center Portland, OR | 2004-2009 |
| Staff Surgeon | Department of Surgery The University of Iowa Hospitals and Clinics Iowa City, IA | 2001-2002 |

Specialty and Subspecialty Certification

| | |
|--|------|
| American Board of Thoracic Surgery, Congenital Heart Surgery Certification | 2016 |
| American Board of Thoracic Surgery | 2005 |
| American Board of Surgery | 2002 |

Licensure

Active

| | |
|------------------------------|------|
| Virginia Board of Medicine | 2017 |
| North Carolina Medical Board | 2010 |

Inactive

| | |
|---|------|
| South Carolina Board of Medical Examiners | 2018 |
| Illinois Department of Professional Regulation | 2013 |
| Washington Medical Quality Assurance Commission | 2009 |
| Oregon Board of Medical Examiners | 2004 |
| Iowa Board of Medical Examiners | 2001 |
| New Hampshire Board of Medicine | 2000 |
| Vermont Board of Medical Examiners | 1996 |

Professional Society Memberships

Congenital Heart Surgeons Society
Society of Thoracic Surgeons
Western Thoracic Surgical Association

Professional Society Activities

| | | |
|---|--|--------------|
| Peer Reviewer 57 th Annual Meeting | The Society of Thoracic Surgeons | 2020 |
| Research Task Force | Congenital Heart Surgeons Society | 2020-present |
| Research Committee | Congenital Heart Surgeons Society | 2018-present |
| Program Committee | Midwest Pediatric Cardiology Society | 2015-2016 |
| Public Reporting Taskforce | The Society of Thoracic Surgeons | 2014-2015 |
| ACC/AHA/STS 2014 Statement on the Future of Registries and the Performance Measurement Enterprise Writing Committee | American College of Cardiology American Heart Association | 2014-2015 |
| Steering Committee ACCF and STS Database Collaboration on the Comparative Effectiveness of Revascularization Strategies, Part II (ASCERT-II) | American College of Cardiology The Society of Thoracic Surgeons | 2012-2015 |
| Committee on Quality Improvement and Outcomes | Congenital Heart Surgeons Society | 2011-2015 |
| Working Group for the Centers for Medicare and Medicaid Services Coronary Artery Bypass Grafting Readmission Measure Project | The Society of Thoracic Surgeons | 2012-2013 |
| Physician Consortium for Performance Improvement Alternate Representative for the Society of Thoracic Surgeons | American Medical Association | 2011-2015 |
| Congenital Heart Surgery Access and Publications Task Force | The Society of Thoracic Surgeons | 2010-2014 |

| | | |
|---|----------------------------------|-----------|
| Adult Cardiac Surgery Access and Publications Task Force | The Society of Thoracic Surgeons | 2009-2014 |
| Congenital Database Task Force Congenital Database Upgrade Subcommittee | The Society of Thoracic Surgeons | 2008-2009 |
| Quality Measurement Task Force | The Society of Thoracic Surgeons | 2008-2015 |
| Abstract Reviewer Congenital Heart Surgery 56 th Annual Scientific Session | American College of Cardiology | 2006 |
| Access and Publications Task Force | The Society of Thoracic Surgeons | 2002-2009 |

Editorial and Review Activities

Journal Reviewer

| | |
|--|--------------|
| Journal of the American Heart Association | 2019 |
| BMC Surgery | 2016 |
| Italian Journal of Pediatrics | 2016 |
| Annals, Academy of Medicine, Singapore | 2015 |
| Pediatrics | 2012 |
| Clinical Cardiology | 2012 |
| British Medical Journal | 2012 |
| World Journal for Pediatric and Congenital Heart Surgery | 2011-present |
| Journal of Heart Valve Disease | 2011 |
| Cardiology Research and Practice | 2011 |
| Cardiology in the Young | 2010-present |
| Pediatric Cardiology | 2009 |
| Arthritis Care and Research | 2009 |
| Circulation: Cardiovascular Quality and Outcomes | 2008-2012 |
| Health and Quality of Life Outcomes | 2008 |
| Journal of Thoracic and Cardiovascular Surgery | 2008-present |
| American Heart Journal | 2008-present |
| Expert Review of Pharmacoeconomics and Outcomes Research | 2007 |
| ASAIO Journal | 2006-present |
| World Journal of Surgery | 2006-2010 |
| Annals of Thoracic Surgery | 2005-present |
| Circulation | 2004-2010 |
| Journal of the American College of Cardiology | 2004-2009 |
| Journal of Psychosomatic Research | 2003 |

Editorial Board

Cardiology in the Young Databases and the assessment of complications 2008
associated with the treatment of patients with
congenital cardiac disease.
Cardiol Young 2008;18(Suppl. 2):1-530.

Professional Invitations

Invited lectures

1. Aortic valve replacement: Options and implications. University of Illinois College of Medicine at Peoria Department of Surgery Grand Rounds, Peoria, IL, October 23, 2015.
2. Hospital and surgeon volume as well as inter-hospital and inter-surgeon variability are independently associated with survival after ascending aortic operations. Western Thoracic Surgical Association 41st Annual Meeting, Whistler, BC, June 24-27, 2015. (Invited discussant)
3. Measuring surgical quality: Can patients use data to make informed choices? Surgeon's Travel Club Annual Meeting, Peoria, IL, April 17-18, 2015.
4. Measuring surgical quality: Can patients use data to make informed choices? University of Illinois College of Medicine at Peoria Department of Surgery Grand Rounds, Peoria, IL, December 12, 2014.
5. New outcome measures: Patient reported outcomes. Society of Thoracic Surgeons National Database Think Tank Meeting, Chicago, IL, September 19-20, 2013.
6. Controversies in thoracic surgery: Studies drawn from large administrative databases are not clinically relevant. Pro. Western Thoracic Surgical Association 39th Annual Meeting, Coeur d'Alene, ID, June 26-29, 2013.
7. Pitfalls and interpretation of database literature. Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA, January 26-30, 2013.
8. How do they do it? The balancing act by our own "A" team. Seattle Children's Hospital 6th Annual Work Life Balance Symposium: Balance in Family, Love and Life, Seattle, WA, December 13, 2012.
9. Choosing a site for special pediatric surgery: Helping families make informed decisions when comparing hospitals and programs. Seattle Children's Hospital/University of Washington Department of Pediatrics Grand Rounds, Seattle, WA, March 8, 2012.
10. Congenital cardiac surgery outcomes: What do they mean? What should we measure? Herma Heart Center, Children's Hospital of Wisconsin, Medical College of Wisconsin, Milwaukee, WI, July 13, 2010.

11. Congenital heart disease concurrent forum. Western Thoracic Surgical Association 36th Annual Meeting, Ojai, CA, June 23-26, 2010. (Moderator)
12. Congenital cardiac surgery outcomes: What do they mean? What should we measure? Congenital Cardiac Surgery Breakfast Session, Western Thoracic Surgical Association 36th Annual Meeting, Ojai, CA, June 23-26, 2010.
13. Measuring quality of congenital heart surgery: What do available metrics really tell us? Cardiothoracic Surgery City Wide Grand Rounds, University of Texas Health Science Center at San Antonio, San Antonio, TX, April 1, 2010.
14. Case presentation: presentation of the real world hospital “outcome” data. Society of Cardiovascular Anesthesiologists 15th Annual Update on Cardiopulmonary Bypass, Whistler, BC, March 21-26, 2010.
15. How can we know if our program is performing well? Overview of interpreting congenital heart disease outcomes. Society of Cardiovascular Anesthesiologists 15th Annual Update on Cardiopulmonary Bypass, Whistler, BC, March 21-26, 2010.
16. Difficulties encountered when comparing pediatric cardiac surgical outcomes. Pediatric Cardiac Care Conference, Mary Bridge Children’s Hospital, MultiCare Health System, Tacoma, WA, January 14, 2010.
17. Difficulties faced when measuring quality in pediatric cardiac surgery. Heart Center Rounds, Children’s Medical Center, Dallas, TX, August 20, 2009.
18. Variability in outcomes: difficulties comparing outcomes between institutions. Congenital Heart Disease Symposium, American Association for Thoracic Surgery 89th Annual Meeting, Boston, MA, May 9-13, 2009.
19. Challenges faced when measuring quality in pediatric cardiac surgery. Cardiac Sciences Rounds, British Columbia Children’s Hospital, Vancouver, BC, February 23, 2009.
20. Who should close atrial septal defects? 9th Annual International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 13-17, 2009.
21. Measuring quality in congenital heart surgery. Starship Children’s Health, Auckland, New Zealand, September 22, 2008.
22. How do we normalize outcome measures so that we can comprehend results? The 4th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, Portland, OR, May 22-24, 2008.
23. Tetralogy of Fallot surgery: Measuring quality. 8th International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 16-19, 2008.

24. Tetralogy of Fallot with absent pulmonary valve. American College of Cardiology 56th Scientific Session, New Orleans, LA, March 24-27, 2007.
25. Principles, practices, and outcomes of CPB in neonates and infants: Assessment of mortality rates. The Second International Conference on Pediatric Mechanical Circulatory Systems and Cardiopulmonary Perfusion, Toronto, ON, May 18-20, 2006.
26. Adult congenital heart disease. Oregon Health and Science University Cardiac Surgery Symposium, Portland, OR, October 22, 2005.
27. Current management of infective endocarditis: Timing of surgery. The Fourth World Congress of Pediatric Cardiology and Cardiac Surgery, Buenos Aires, Argentina, September 18-22, 2005.
28. Adult Ross: Shall we do it? 10th Vail Symposium on Pediatric Cardiac Diseases, Vail, CO, March 13-16, 2005.
29. Benchmarking outcomes for infant heart surgery. American Society of Extra-Corporeal Technology 2005 Pediatric Perfusion Conference, Portland, OR, July 14-17, 2005.
30. STS data and quality improvement. Iowa Society of Thoracic Surgeons 2003 Educational Symposium, West Des Moines, IA, April 25-26, 2003.
31. Cardiac surgery process measures and outcomes data. How are we doing? Iowa Society of Thoracic Surgeons Winter Meeting, Des Moines, IA, January 22, 2003.
32. Understanding variation in cardiac surgery process measures and outcomes data. Iowa Society of Thoracic Surgeons Spring Meeting, Iowa City, IA, June 27, 2002.
33. Quality improvement in health care: how to develop and implement an improvement program. Grand Rounds, Center for Disabilities and Development, The University of Iowa Hospitals and Clinics, Iowa City, IA, March 1, 2002.
34. Cardiac surgery process measures and outcomes data in Iowa. Iowa Society of Thoracic Surgeons Winter Meeting, Des Moines, IA, December 18, 2001.
35. Get started in health care improvement. Quality and Performance Improvement Chairpersons Committee Fall Meeting, The University of Iowa Hospitals and Clinics, Iowa City, IA, November 8 and 13, 2001.
36. Reporting of cardiac surgery process measures and outcomes data. Iowa Society of Thoracic Surgeons Fall Meeting, Cedar Rapids, IA, September 27, 2001.
37. Patient characteristics predict improvement in functional health after elective CABG. Northern New England Cardiovascular Disease Study Group Spring Meeting, Eastern Maine Medical Center, Bangor, ME, May 2001.

38. Intimal hyperplasia. Grand Rounds, Concord Hospital, Concord, NH, December 3, 1997.

Honors and Awards

| | |
|--|------|
| J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery Society of Thoracic Surgeons 54 th Annual Meeting | 2018 |
| Groundbreaking Studies in the Practice of Cardiovascular Medicine: Circulation Editors' Choice American Heart Association Scientific Sessions | 2009 |
| J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery Society of Thoracic Surgeons 45 th Annual Meeting | 2009 |
| J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery Society of Thoracic Surgeons 44 th Annual Meeting | 2008 |
| William Williams, MD Young Investigator Award 2 nd International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion | 2006 |
| Best clinical paper Residents' and Fellows' Research Day Department of Surgery, The University of Iowa Hospitals and Clinics | 2004 |
| Best poster, Population Science American Heart Association Scientific Sessions | 2002 |
| Fellow travel award Fourth Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke | 2002 |
| Best clinical paper Residents' and Fellows' Research Day Department of Surgery, The University of Iowa Hospitals and Clinics | 2002 |
| Best basic science paper, State award, Residents' paper competition American College of Surgeons, Region I Committee on Trauma | 1997 |
| King's College Scholarship University of Illinois, College of Medicine | 1993 |
| Dr. Bertram A. Richardson Scholarship University of Illinois, College of Medicine | 1993 |

| | |
|---|-----------|
| Avery Brundage Scholarship University of Illinois | 1993 |
| Condit Fellowship Award Carle Foundation Hospital, Urbana, IL | 1991 |
| Academic All-Conference Team, Track and Field Big Ten Conference | 1989-1990 |
| Academic All-Conference Team, Cross Country Big Ten Conference | 1989 |

Publications

Peer-reviewed Articles

1. Callahan CP, Jegatheeswaran A, Barron DJ, Husain SA, Eghtesady P, **Welke KF**, Caldarone CA, Overman DM, Kirklin JK, Jacobs ML, Lambert LM, DeCampli WM, McCrindle BW. Factors associated with mortality or transplantation versus transition to fontan after cavopulmonary shunt for patient with tricuspid atresia: a congenital heart surgeons' society study. *J Thorac Cardiovasc Surg* (submitted)
2. Karamlou T, Javorski M, Weiss A, Pasquali SK, **Welke KF**. Utility of administrative and clinical data for cardiac surgery research: a case-based approach to guide choice. *J Thorac Cardiovasc Surg* 2020 Oct 17:S0022-5223(20)32835-X. doi: 10.1016/j.jtcvs.2020.135. Online ahead of print.
3. **Welke KF**, Pasquali SK, Lin, P, Backer CL, Overman DM, Hirsch JC, Karamlou T. A theoretical model for delivery of congenital heart surgery in the United States. *Ann Thorac Surg* 2020 Aug 26:S0003-4975(20)31352-7. doi: 10.1016/j.athoracsur.2020.06.057. Online ahead of print.
4. Tripathi S, Swayampakula AK, Deshpande GG, Astle M, Wang Y, **Welke KF**. Illustration of the current practice and outcome comparison of early versus late tracheostomy after pediatric ECMO. *Int J Artif Organs* 2020;43:726-734.
5. Karamlou T, Johnston DR, Backer CL, Roselli EE, **Welke KF**, Caldarone CA, Svensson LG. Access or excess? Examining the argument for regionalized cardiac care. *J Thorac Cardiovasc Surg* 2020;160:813-819.
6. **Welke KF**, Pasquali SK, Lin, P, Backer CL, Overman DM, Hirsch JC, Karamlou T. Regionalization of congenital cardiac surgery in the United States. *Semin Thorac Cardiovasc Surg* 2020;32:128-137.
7. Jegatheeswaran A, Devlin PJ, DeCampli WM, **Welke KF**, Williams WG, Blackstone EH, Fuller S, Jacobs ML, Mussatto KA, Woods RK, McCrindle BW. Longitudinal functional health status in young adults with repaired dextro-transposition of the great arteries: a congenital heart surgeons' society study. *J Thorac Cardiovasc Surg* 2020;159:604-614.e3.

8. Ruzmetov M, Fortuna RS, Shah JJ, **Welke KF**, Plunkett MD. Does the pattern of bicuspid aortic valve leaflet fusion determine the success of the ross procedure? *J Card Surg* 2020;35:28-34.
9. Tripathy S, Henrekin LL, Neavor AJ, **Welke KF**. Design and development of pediatric cardiac ICU daily morning surgical rounds by quality function deployment (QFD). *Pediatr Qual Saf* 2019;3:e171.
10. **Welke KF**, Pasquali SK, Lin, P, Backer CL, Overman DM, Hirsch JC, Jacobs JP, Karamlou T. Hospital Distribution and Patient Travel Patterns for Congenital Cardiac Surgery in the United States. *J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery. Ann Thorac Surg* 2019;107:574-581.
11. Tripathy S, Henrekin LL, Read CD, **Welke KF**. Identification of critical to quality elements for intensive care rounds by kano analysis. *Pediatr Qual Saf* 2017;2:e027.
12. Jacobs JP, Shahian DM, He X, O'Brien SM, Badhwar V, Cleveland JC Jr., Fernery AP, Magee MJ, Kurlansky PA, Rankin JS, **Welke KF**, Filardo G, Dokholyan RS, Peterson ED, Brennan JM, Han JM, McDonald D, Schmitz D, Edwards EH, Prager R, Grover FL. Penetration, completeness, and representativeness of the society of thoracic surgeons adult cardiac surgery database. *Ann Thorac Surg* 2016;101:33-41.
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Invited Articles

1. Backer CL, Karamlou T, **Welke KF**. More evidence for regionalization. *J Am Coll Cardiol* 2019;74:2919-20.
2. **Welke KF**. Public reporting of congenital heart surgery outcomes: counting numbers, caring for patients. *Semin Thorac Cardiovasc Surg*. 2018;30:50-53.
3. **Welke KF**. Its all in the interpretation. *Semin Thorac Cardiovasc Surg Pediatr Card Surg* 2017;29:221-222.
4. **Welke KF**. Early reoperations in a 5-year national cohort of pediatric congenital heart disease patients. *Ann Thorac Surg* 2016;101:1529.
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8. **Welke KF**. Major infection after pediatric cardiac surgery: external validation of risk estimation model. *Ann Thorac Surg* 2012;94:2096.
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Book Chapters

1. **Welke K**, Karamlou T, Ungerleider RM, Jacobs JP. How to interpret and use outcome data. In: Ungerleider RM, Meliones JN, Nelson McMillan KN, Cooper DS, Jacobs JP, editors. Critical Heart Disease in Infants and Children, 3rd ed. Philadelphia: Elsevier, Inc.; 2019, p. 24-34.
2. **Welke KF**, Ungerleider RM. Coarctation of the aorta. In: Kaiser LR, Kron IL, Spray TL, editors. Mastery of cardiothoracic surgery. 3rd ed. Philadelphia: Lippincott Williams and Wilkins; 2014, p. 849-858.
3. Karamlou TB, **Welke KF**, Ungerleider RM. Congenital heart disease. In: Brunnicardi FC, Anderson DK, Billiar TR, Dunn DL, Hunter JG, Matthews JB, Pollock RE, editors. Schwartz's principles of surgery. 9th ed. New York: McGraw-Hill; 2010, p. 591-626.
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Letters to the editor

1. **Welke KF**, Karamlou T. Regionalization of congenital heart surgery: we must make it reality. *Ann Thorac Surg* (accepted)
2. **Welke KF**, Karamlou T. Regionalization done well benefits all. *Ann Thorac Surg* (accepted)
3. Karamlou T, Diggs BS, Ungerleider RM, McCrindle BW, **Welke KF**. Percutaneous patent foramen ovale/ atrial septal defect closure: just because we can? Reply. *Ann Thorac Surg* 2009;88:1386-1387.
4. Edwards FH, **Welke KF**, Levitsky S. Cardiac revascularization in specialty and general hospitals. *N Engl J Med* 2005;352:2754-6.

Abstracts

International Societal Meetings

1. Callahan CP, Jegatheeswaran A, Barron DJ, Husain SA, Eghtesady P, Caldarone CA, Karamlou T, Gruber PJ, **Welke KF**, Kirklin JK, Jacobs ML, Overman DM, Lambert LM, Pizarro C, Ramakrishnan K, DeCampli WM, McCrindle BW. Cavopulmonary shunt-fontan interstage mortality/transplant vs. transition to fontan in tricuspid atresia: a congenital heart surgeons'

society analysis. Congenital Heart Surgeons Society and European Congenital Heart Surgeons Association Joint Meeting 2020, Boston, MA, October 22-24, 2020.

2. Karamlou T, Pasquali S, Overman D, Backer C, Hirsch-Romano J, **Welke K**. Geographic distribution of congenital heart surgery programs in the United States and the potential impact of regionalization. 4th Joint Meeting European Congenital Heart Surgeons Association - Congenital Heart Surgeons Society. Venice, Italy, June 22-24, 2016.
3. Albaro CA, Shah RG, **Welke KF**, Duncan AM, Shah JJ, Bramlet. Abnormal fetal z-scores are a sensitive predictor of fetal congenital heart disease. *The Journal of Heart Disease (Abstracts)* 2015;Volume 12, No. 1, page 9. 20th World Congress on Heart Disease, Vancouver, B.C. July 25-27, 2015.
4. Ruzmetov M, Molina N, Shah JJ, Fortuna RS, **Welke KF**. Bicuspid aortic valve morphology: does the pattern of leaflet fusion determine aortic and valvular pathology? American Association for Thoracic Surgery 94th Annual Meeting, Toronto, ON, Canada, April 26-30, 2014.
5. **Welke KF**, Wu Y, Grunkemeier GL, Furnary AP, Starr A. Long-term results after Carpentier-Edwards porcine valve replacement in the aortic and mitral positions. World Society of Cardio-Thoracic Surgeons 22nd World Congress, Vancouver, BC, September 8-11, 2012.
6. **Welke KF**, Wu X, Grunkemeier GL, Ahmad A, Starr A. Long term results after Carpentier-Edwards pericardial aortic valve placement with attention to the impact of age. World Society of Cardio-Thoracic Surgeons 20th World Congress, Chennai, India, October 20-23, 2010, *Heart Surg Forum* 2010;13(Suppl 2):S79-S80.
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8. Karamlou T, Hirsch J, Gajarski R, Ohye RG, Bove EL, Devaney EJ, **Welke KF**. A UNOS analysis of heart transplantation in adults with congenital heart disease: Outcomes and factors associated with mortality and retransplantation. Western Thoracic Surgical Association 35th Annual Meeting, Banff, AB June 24-27, 2009.
9. Allen P, Simmons Q, Giacomuzzi C, Borondy H, Carcioppolo V, Snider S, Pezzella T, Woodward D, **Welke K**, Marath A. Challenges in international heart surgery: massive air embolism of unusual origin and requirement for modification of standard algorithms and procedural checks. 5th World Congress of Paediatric Cardiology and Cardiac Surgery. Cairns, Australia, June 21-26, 2009. *Cardiol Young* 2010;20(Suppl 1):121-122.
10. Froemke C, Henson J, Hattabaugh K, Swanson V, Minette M, Silberbach M, **Welke KF**, Marath A. Evaluation of congenital cardiac care in disadvantaged healthcare systems: a database for developing nations. 5th World Congress of Paediatric Cardiology and Cardiac Surgery. Cairns, Australia, June 21-26, 2009. *Cardiol Young* 2010;20(Suppl 1):161.

11. Karamlou T, Diggs BS, Ungerleider RM, **Welke KF**. Evolution of treatment options and outcomes for hypoplastic left heart syndrome over an 18-year period. *Cardiology 2009: 12th Annual Update on Pediatric and Congenital Cardiovascular Disease: Strategies to Improve Care Through a Multidisciplinary Approach*, Nassau, Bahamas, February 4-8, 2009.
12. Karamlou T, Diggs BS, Ungerleider RM, **Welke KF**. The disturbing dichotomy of female gender in grown-up congenital heart disease: Higher in-hospital mortality and lower resource utilization. *Cardiology 2009: 12th Annual Update on Pediatric and Congenital Cardiovascular Disease: Strategies to Improve Care Through a Multidisciplinary Approach*, Nassau, Bahamas, February 4-8, 2009. *Cardiol Young 2009;19 (Suppl 2):144*.
13. **Welke KF**, Diggs BS, Karamlou T, Ungerleider RM. How much is enough? The relationship between surgeon volume and mortality in pediatric cardiac surgery. 2nd Joint Meeting of the Congenital Heart Surgeons' Society and the European Congenital Heart Surgeons Association, Warsaw, Poland, September 10-12, 2008.
14. Marath A, Silberbach M, Froemke C, Henson J, Gipp M, Kaplinski M, Murphy D, **Welke K**, Ungerleider R. A global international database for congenital and acquired heart disease. World Summit on Pediatric and Congenital Heart Surgery Services, Education and Cardiac Care in Children and Adults with Congenital Heart Disease, Montreal, QUE, June 19-21, 2008.
15. You J, Mejak B, Giacomuzzi C, Heller E, Ungerleider R, **Welke K**. Why do We Cool to 18° C? The 4th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, Portland, OR, May 22-24, 2008.
16. You J, Mejak B, Giacomuzzi C, Heller E, Ungerleider R, **Welke K**. Routine mechanical ventricular assist following the Norwood procedure improved cerebral perfusion. The 4th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, Portland, OR, May 22-24, 2008.
17. Gammie JS, Haddad M, Milford-Beland S, **Welke KF**, Ferguson TB Jr., O'Brien SM, Peterson ED, Griffith BP. Does concomitant atrial fibrillation ablation increase the risk of mitral valve surgery? Analysis of a contemporary North American experience reported to the Society of Thoracic Surgeons National Cardiac Database. International Society for Minimally Invasive Cardiothoracic Surgery 10th Anniversary Scientific Meeting, Rome, Italy, June 6-9, 2007.
18. **Welke KF**, Shen I, Ungerleider RM. Pediatric cardiac surgery outcomes: is the bar higher than we thought? Congenital Heart Surgeons Society Annual Meeting. Buenos Aires, Argentina, September 17-18, 2005.
19. Flach SD, **Welke K**, McCoy K, BootsMiller BJ, Vaughn TE, Ward MM, Perlin J, Doebbeling BN. How can we improve compliance with a congestive heart failure guideline? Society of General Internal Medicine 26th Annual Meeting, Vancouver, B.C., April 30 – May 3, 2003, *J Gen Intern Med 2003;18(Suppl I):282*.

20. Yang W, Portnow D, **Welke K**, Block BB, Molitor SC. Current medical applications of thermography - a review. In: Proceedings of the First World Congress of Biomechanics, University of California, San Diego, La Jolla, CA, August 30 - September 4, 1990. Vol II:343.

National Societal Meetings

1. **Welke K**, Pasquali S, Lin P, Backer C, Overman D, Romano J, Karamlou T. Children deserve the best: a theoretical model for optimal delivery of congenital heart surgery in the United States. Congenital Heart Surgeons Society Annual Meeting, Chicago, IL, October 27-28, 2019.
2. Serfas JD, Spates T, D'Ottavio A, Spears T, Ciociola E, Chiswell K, Wiedemeier M, Krasuski R, Kemper AR, Hoffman TM, Walsh M, Sang C, **Welke KF**, Li J. Adults and adolescent with congenital heart disease: who are we losing to follow up? American College of Cardiology 68th Scientific Session, New Orleans, LA, March 16-18, 2019.
3. Swayampakula AK, Despande G, **Welke K**, Astle M, Wang Y, Tripathi S. Current practice of tracheostomy after respiratory ecmo in children and review of outcome benefits of early tracheostomy. The 35th Annual Children's National Symposium - ECMO and the Advanced Therapies for Cardiovascular and Respiratory Failure. Keystone, CO, February 24-28, 2019.
4. Karamlou T, Pasquali SK, Lin P, Backer CL, Overman DM, Hirsch JC, Jacobs JP, **Welke KF**. Characterizing congenital heart surgery care current referral patterns in the US: where are patients coming from and where are they going? J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery. Society of Thoracic Surgeons 54th Annual Meeting. Fort Lauderdale, FL, January 27-31, 2018.
5. Karamlou T, Pasquali SK, Lin P, Backer CL, Overman DM, Hirsch JC, Jacobs JP, **Welke KF**. Characterizing congenital heart surgery care current referral patterns in the US: where are patients coming from and where are they going? Congenital Heart Surgeons Society Annual Meeting, Chicago, IL, October 22-23, 2017.
6. Tripathy S, Henrekin L, Hasselman T, Dunnuck K, **Welke K**. Comparative analysis of perceptions of chic rounds a mixed-methods approach. Society of Critical Care Medicine 46th Critical Care Conference, Honolulu, HI, January 21-25, 2017. Crit Care Med 2016;44(Suppl):377.
7. Tripathy S, Henrekin L, Read, C, **Welke K**. Kano analysis a novel method to assess requirements of a heterogeneous icu rounding team. Society of Critical Care Medicine 46th Critical Care Conference, Honolulu, HI, January 21-25, 2017. Crit Care Med 2016;44(Suppl):374.
8. Tripathy S, Henrekin L, Neavor A, **Welke K**. Design of civic surgical rounding process with quality function deployment. Society of Critical Care Medicine 46th Critical Care Conference, Honolulu, HI, January 21-25, 2017. Crit Care Med 2016;44(Suppl):364.
9. Karamlou T, Pasquali S, Overman D, Backer C, Hirsch-Romano J, **Welke K**. Developing a national model for regionalization of care for children undergoing congenital cardiac surgery in the

United States. Congenital Heart Surgeons Society Annual Meeting, Chicago, IL, October 25-26, 2015.

10. Ruzmetov M, Fortuna RS, Shah JJ, Geiss DM, **Welke KF**. Bicuspid aortic valve morphology: does the pattern of leaflet fusion determine the success of the ross procedure? American Association for Thoracic Surgery 95th Annual Meeting, Seattle, WA, April 25-29, 2015.
11. Ruzmetov M, **Welke KF**, Fortuna RS, Shah JJ. Valve morphology is associated with the risk for aortic dilation in patients with turner's syndrome. Cardiology 2015, 18th Annual Update on Pediatric and Congenital Cardiovascular Disease, Scottsdale, AZ, February 11-15, 2015.
12. Luo L, Ruzmetov M, Shah JJ, **Welke KF**. Should bicuspid aortic valve morphology be incorporated into the criteria of shone's complex? 15th Annual International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 6-9, 2015.
13. Jacobs JP, Shahian D, He X, O'Brien S, Dokholyan R, Peterson E, Badhwar V, Cleveland Jr. JC, Furnary AP, Kurlansky PA, Rankin JS, **Welke KF**, Magee MJ, Filardo G, Han J, McDonald D, Schmitz D, Edwards FH, Prager RL, Grover FL. Successful linking of the STS and CMS medicare data to examine penetration, completeness, and representativeness of the STS adult cardiac surgery database. Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA, January 24-28, 2015.
14. Shahian DM, He X, O'Brien S, Kurlansky P, Badhwar V, Cleveland Jr. J, Fazzalari FL, Filardo G, Furnary AP, Magee MJ, Rankin JS, **Welke KF**, Jacobs JP. The STS composite performance measure for surgeons: a report of the STS quality management taskforce. Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA, January 24-28, 2015.
15. Ruzmetov M, Shah JJ, Fortuna RS, **Welke KF**. Patterns of aortopathy and valve pathology differ in children and young adults with bicuspid aortic valve and marfan's syndrome. Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA, January 24-28, 2015.
16. Bramlet M, Fortuna R, **Welke K**. Preoperative assessment using 3-D models improves surgical planning for patients with complex congenital cardiac defects. American Heart Association Scientific Sessions, Chicago, IL, 15-19, 2014.
17. Ruzmetov M, Shah JJ, Fortuna RS, **Welke KF**. Aortic valve leaflet morphology is associated with the patterns of aortic dilation and valve dysfunction in young patients with bicuspid aortic valves. Southern Thoracic Surgical Association 60th Annual Meeting. Tucson, AZ, November 5-8, 2014.
18. Jacobs JP, O'Brien SM, Pasquali SK, Gaynor JW, Karamlou T, **Welke KF**, Filardo G, Han JM, Kim S, Shahian DM, Jacobs ML. Variation in outcomes for risk-adjusted pediatric and congenital cardiac operations: an analysis of the society of thoracic surgeons (sts) congenital heart surgery database. Southern Thoracic Surgical Association 61st Annual Meeting. Tucson, AZ, November 5-8, 2014.

19. Bramlet MT, Fortuna RS, **Welke KF**. Preoperative assessment using 3-D models improves surgical planning for patients with complex congenital cardiac defects. Congenital Heart Surgeons Society Annual Meeting, Chicago, IL, October 19-20, 2014.
20. Ruzmetov M, Geiss D, **Welke KF**, Fortuna RS. Midterm outcomes of coronary artery bypass grafting in infants and children. Congenital Heart Surgeons Society Annual Meeting, Chicago, IL, October 19-20, 2014.
21. Jacobs JP, O'Brien SM, Pasquali SK, Gaynor JW, Karamlou T, **Welke KF**, Filardo G, Han JM, Shahian DM, Jacobs ML. Variation in outcomes for risk-adjusted pediatric and congenital cardiac operations: an analysis of the society of thoracic surgeons (sts) congenital heart surgery database. Congenital Heart Surgeons Society Annual Meeting, Chicago, IL, October 19-20, 2014.
22. Quandt B, Buckley K, Hoffman R, Fortuna R, **Welke K**. Blood product usage and donor exposures in the pediatric patient undergoing cardiopulmonary bypass receiving fresh whole blood. Society of Thoracic Surgeons Advances in Quality and Outcomes Annual Meeting. Chicago, IL, October 8-10, 2014.
23. Ruzmetov M, Molina N, Shah JJ, Fortuna RS, **Welke KF**. Is bicuspid aortic valves with different spatial leaflets orientations an important determinant of the risk for aortic stenosis and insufficiency with aortic dilation? Cardiology 2014, 17th Annual Update on Pediatric and Congenital Cardiovascular Disease, Lake Buena Vista, FL, February 19-23, 2014.
24. Zaragoza-Macias E, Dardas T, Krieger EV, Stout KK, Otto CM, **Welke KF**. Choice of aortic valve prosthesis at age 18: what are the implications over a lifetime? American Heart Association Scientific Sessions, Dallas, TX, November 16-20, 2013.
25. Ruzmetov M, **Welke KF**, Geiss DM, Fortuna RS. Pulmonary homografts for RVOT reconstruction in Ross and non-Ross patients: a 15-year single institution experience. Congenital Heart Surgeons Society Annual Meeting, Chicago, IL, October 20-21, 2013.
26. Karamlou T, Gelow J, **Welke KF**, Slater MS, Tibayan F, Mudd JM, McMullan M, Cohen GA, Song HK. Combined heart-kidney transplant improves post-transplant survival compared to isolated heart transplant in recipients with reduced glomerular filtration rate: analysis of 593 combined heart-kidney transplants from the United Network Organ Sharing Database. Western Thoracic Surgical Association 39th Annual Meeting, Coeur d'Alene, ID, June 26-29, 2013.
27. Pasquali SK, He X, Jacobs ML, Shah SS, Peterson ED, Hall M, Gaynor JW, Hill KD, **Welke KF**, Mayer JE, Jacobs JP, Li JS. Factors associated with variation in hospital costs for pediatric heart surgery. American College of Cardiology 58th Scientific Session, San Francisco, CA, March 9-11, 2013.
28. Karamlou TB, Sexton K, Parrish AR, **Welke KF**, Permut LC, McMullan DM, Cohen GA. One size does not fit all: the influence of age at surgery in outcomes following Norwood operation. Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA, January 26-30, 2013.

29. **Welke KF**, Karamlou T, He X, Jacobs ML, Jacobs JP, Pasquali SK. Surgeon volume is associated with operative morality after congenital cardiac surgery. American Heart Association Scientific Sessions, Los Angeles, CA, November 3-7, 2012. *Circulation*. 2012;126(Suppl):A10802.
30. Karamlou T, Vafaezdah M, Parrish A, **Welke K**, Permut L, Cohen G, McMullan M. Contemporary cost and mortality of pediatric ECMO is lower at large high volume hospitals: an argument for regionalization based on 7.3 million cases. Western Thoracic Surgical Association 38th Annual Meeting, Maui, HI, June 27-30, 2012.
31. Ungerleider RM, **Welke KF**, Ootaki Y, Pasquali S, Jacobs J, Williams D, Quartermain M. Contemporary patterns of surgery and outcomes for aortic coarctation. Western Thoracic Surgical Association 38th Annual Meeting, Maui, HI, June 27-30, 2012.
32. Karamlou T, Vafaezdah M, Parrish A, **Welke K**, Permut L, Cohen G, McMullan M. Contemporary cost and mortality of pediatric ECMO is lower at large high volume hospitals: an argument for regionalization based on 7.3 million cases. The Children's National Medical Center Symposium of ECMO and Advanced Therapies for Respiratory Failure, Keystone, CO, February 26 - March 1, 2012.
33. Jegatheeswaran A, **Welke KF**, Blackstone EH, Kirshbom P, Lambert L, Fuller S, Tchervenkov CI, Woods RK, Fiore AC, Mussatto KA, Cotts TB, St. Louis JD, Jacobs JP, Jacobs M, Caldarone C, Williams B, McCrindle B. Transition to adult congenital heart disease care is better in Canada versus the United States in a large cohort of young adults with repaired transposition of the great arteries: a multi-institutional Congenital Heart Surgeons' Society study. American Heart Association Scientific Sessions, Orlando, FL, November 12-16, 2011. *Circulation* 2011;124(Suppl):A15373.
34. Jegatheeswaran A, **Welke KF**, Blackstone EH, Kirshbom P, Lambert L, Fuller S, Tchervenkov CI, Woods RK, Fiore AC, Mussatto KA, Cotts TB, St. Louis JD, Jacobs JP, Jacobs M, Caldarone C, Williams B, McCrindle B. The association of psychosocial factors to self-reported functional health status in a large cohort of young adults with repaired transposition of the great arteries: a multi-institutional Congenital Heart Surgeons' Society study. American Heart Association Scientific Sessions, Orlando, FL, November 12-16, 2011. *Circulation* 2011;124(Suppl):A16159.
35. Pasquali SK, Jacobs JP, He X, Jacobs ML, O'Brien SM, Hall M, Jaquiss RDB, **Welke KF**, Peterson ED, Shah SS, Gaynor JW, Li JS. Timing of perioperative methylprednisolone and outcomes in infants undergoing heart surgery. American Heart Association Scientific Sessions, Orlando, FL, November 12-16, 2011. *Circulation* 2011;124(Suppl):A8256.
36. Hornik CP, He X, Li JS, Jacobs JP, Jaquiss RDB, Jacobs ML, O'Brien SM, **Welke KF**, Peterson ED, Pasquali SK. Relative impact of surgeon and center volume on outcome following the Norwood operation. American Heart Association Scientific Sessions, Orlando, FL, November 12-16, 2011. *Circulation* 2011;124(Suppl):A8713.

37. Jacobs JP, O'Brien SM, Pasquali SK, Jacobs ML, Lacour-Gayet FG, Tchervenkov CI, Austin EH, Pizarro C, Pourmoghadam KK, Scholl FG, **Welke KF**, Mavroudis C. Variation in outcomes for complexity-stratified pediatric cardiac operations: an analysis of the STS congenital heart surgery database. Southern Thoracic Surgical Association 58th Annual Meeting, San Antonio, TX, November 9-12, 2011.
38. Karamlou T, **Welke KF**. Impact of single ventricle physiology on outcomes of ACHD patients undergoing OHTx. Congenital Heart Surgeons' Society 2011 Annual Meeting, Chicago, IL, October 23-24, 2011.
39. Karamlou T, Diggs BS, McCrindle BW, **Welke KF**. A growing problem: maternal death and peripartum complications are higher in women with grown-up congenital heart disease. Society of Thoracic Surgeons 47th Annual Meeting, San Diego, CA, January 30-February 2, 2011.
40. Jacobs JP, Jacobs ML, Pasquali SK, Lacour-Gayet FG, Tchervenkov CI, Pourmoghadam KK, Scholl FG, **Welke KF**, Pizarro C, Mavroudis C. Variation in outcomes for benchmark operations: an analysis of the STS congenital heart surgery database. Richard Clark Award/Paper. Society of Thoracic Surgeons 47th Annual Meeting, San Diego, CA, January 30-February 2, 2011.
41. Burstein DS, Sheng S, O'Brien SM, Rossi AF, Jacobs JP, Checchia PA, Wernovsky G, **Welke KF**, Peterson ED, Li JS, Jacobs ML, Pasquali SK. The impact of intensive care unit structure on post-operative outcomes following congenital heart surgery: Analysis of a multi-institutional database. American Heart Association Scientific Sessions, Chicago, IL, November 13-17, 2010. *Circulation* 2010;122:A9384.
42. Walker WL, Karamlou T, Diggs BS, Ehieli EI, Caddell K, de la Cruz JS, **Welke KF**. Geography or pathology? Regional variation in atrial septal defect closure rates and techniques. American Heart Association Scientific Sessions, Orlando, FL, November 14-18, 2009. *Circulation* 2009;120:S436.
43. Johnson JN, Li S, O'Brien SM, Li JS, Jacobs JP, Jacobs ML, **Welke KF**, Dokholyan RS, Mehta RH, Peterson ED, Jagers J, Pasquali SK. Center variability in delayed sternal closure following stage 1 palliation for hypoplastic left heart syndrome and associated outcomes. American Academy of Pediatrics National Conference and Exhibition, Washington, DC, October 17-20, 2009.
44. Borondy H, Allen P, Simmons Q, Giacomuzzi C, Carcioppolo V, Snider S, Pezzella T, Woodward D, **Welke K**, Marath A. Challenges in international heart surgery: massive air embolism of unusual origin and requirement for modification of standard algorithms and procedural checks. The 5th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, Dallas, TX, May 27-30, 2009. *Artificial Organs* 2009;33:A76.
45. Ehieli E, Karamlou T, Diggs BS, Walker W, Caddell K, de la Cruz JS, Ungerleider RM, **Welke KF**. Guideline or geography: Which determines valve type for aortic valve replacement in older patients? American College of Cardiology 58th Scientific Session, Orlando, FL, March 28-31, 2009. *J Am Coll Cardiol* 2009;53(Suppl 1):A403.

46. Karamlou T, Diggs BS, Ungerleider RM, **Welke KF**. The disturbing dichotomy of female gender in grown-up congenital heart disease: Higher in-hospital mortality and lower resource utilization. American College of Cardiology 58th Scientific Session, Orlando, FL, March 28-31, 2009. *J Am Coll Cardiol* 2009;53(Suppl 1):A361.
47. Caddell KA, Diggs B, de la Cruz D, Walker W, Ehieli E, Karamlou T, Ungerleider RM, **Welke KF**. Common ground: intra-institutional correlations of mortality rates among high-risk pediatric surgical specialties. Society of University Surgeons Meeting, 4th Annual Surgical Congress, Fort Meyers, FL, February 3-6, 2009. *J Surg Res* 2009;151:238-239.
48. Karamlou T, Diggs BS, Ungerleider RM, **Welke KF**. Adults or big kids: What is the ideal clinical environment for management of grown-up patients with congenital heart disease? Society of Thoracic Surgeons 45th Annual Meeting, San Francisco, CA, January 26-28, 2009.
49. **Welke KF**, Diggs BS, Karamlou T, Ungerleider RM. Mortality is not a valid indicator of quality differences between pediatric cardiac surgery programs. J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery. Society of Thoracic Surgeons 45th Annual Meeting, San Francisco, CA, January 26-28, 2009.
50. Ungerleider RM, Headings J, Minette MS, **Welke KF**, Langley S. A modification to the Ross procedure that may eliminate late autograft dilatation. Southern Thoracic Surgical Association 55th Annual Meeting, Austin, TX, November 5-8, 2008.
51. Schipper P, Diggs B, Ungerleider RM, **Welke K**. The influence of surgeon specialty on outcomes in general thoracic surgery: a national sample 1996-2005. Southern Thoracic Surgical Association 55th Annual Meeting, Austin, TX, November 5-8, 2008.
52. Clarke DR, O'Brien SM, Jacobs JP, Jacobs ML, Lacour-Gayet FG, **Welke KF**, Maruszewski B, Tobota Z, Miller WJ, Mavroudis C, Edwards FH. A new chapter in outcome analysis for congenital heart surgery: empirically based stratification of mortality risk. Western Thoracic Surgical Association 34th Annual Meeting, Kona, HI, June 25-28, 2008.
53. Karamlou T, Diggs BS, Ungerleider RM, **Welke KF**. Evolution of treatment options and outcomes for hypoplastic left heart syndrome over an 18-year period. Western Thoracic Surgical Association 34th Annual Meeting, Kona, HI, June 25-28, 2008.
54. Reece TB, **Welke KF**, Gammie JM, O'Brien SM, Grover FL. The Ross procedure in adults: A vanishing operation. Western Thoracic Surgical Association 34th Annual Meeting, Kona, HI, June 25-28, 2008.
55. Song HS, Diggs BS, Ungerleider RM, **Welke KF**. Improved quality and cost effectiveness of coronary artery bypass grafting in the United States from 1988-2005. Western Thoracic Surgical Association 34th Annual Meeting, Kona, HI, June 25-28, 2008.

56. **Welke KF**, O'Brien SM, Peterson ED, Ungerleider RM, Jacobs ML, Jacobs JP. How size matters: the complex relationship between pediatric cardiac surgical case volumes and mortality rates in a national clinical database. American Association for Thoracic Surgery 88th Annual Meeting, San Diego, CA, May 10-14, 2008.
57. Headings J, Ungerleider R, **Welke K**. ICU practice patterns for management of adults following congenital heart surgery. *Cardiology* 2008: 11th Annual Update on Pediatric Cardiovascular Disease, New and Evolving Concepts and Practices. Scottsdale, AZ, February 6-10, 2008. *Cardiol Young* 2008;18:216.
58. You J, Mejak B, Giacomuzzi C, Heller E, Ungerleider R, **Welke K**. Routine mechanical ventricular assist following the Norwood procedure improved cerebral perfusion. *Cardiology* 2008: 11th Annual Update on Pediatric Cardiovascular Disease, New and Evolving Concepts and Practices. Scottsdale, AZ, February 6-10, 2008. *Cardiol Young* 2008;18:197.
59. Headings J, Ungerleider RM, **Welke KF**, Shen I, Slater M, Song H. A modification to the Ross procedure that may eliminate late autograft dilatation. *Cardiology* 2008: 11th Annual Update on Pediatric Cardiovascular Disease, New and Evolving Concepts and Practices. Scottsdale, AZ, February 6-10, 2008. *Cardiol Young* 2008;18:193.
60. **Welke KF**, Diggs BS, Karamlou T, Ungerleider RM. Overall hospital surgical case volumes and raw mortality rates inaccurately assess quality in pediatric cardiac surgery. Society of Thoracic Surgeons 44th Annual Meeting, Fort Lauderdale, FL, January 28-30, 2008.
61. Karamlou T, Diggs BS, McCrindle BW, Ungerleider RM, **Welke KF**. The rush to atrial septal defect closure: is the introduction of percutaneous closure driving utilization? J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery and recipient of the Thoracic Surgery Directors Association Research Award. Society of Thoracic Surgeons 44th Annual Meeting, Fort Lauderdale, FL, January 28-30, 2008.
62. Karamlou T, Diggs B, Person T, Ungerleider R, **Welke K**. National practice patterns for management of adult congenital heart disease: operation by congenital surgeons decreases in-hospital mortality. Hawley H. Seiler Resident's Competition Award. Southern Thoracic Surgical Association 54th Annual Meeting, Bonita Springs, FL, November 8-10, 2007.
63. **Welke KF**, Diggs BS, Karamlou T, Ungerleider RM. Pediatric cardiac surgical mortality rates from national administrative data (1988-2003) do not reflect highest achievable outcomes. Southern Thoracic Surgical Association 54th Annual Meeting, Bonita Springs, FL, November 8-10, 2007.
64. Song HK, Grab J, O'Brien S, **Welke KF**, Edwards F, Ungerleider R. Gender differences in mortality after mitral valve surgery: evidence for higher mortality in perimenopausal women. Southern Thoracic Surgical Association 54th Annual Meeting, Bonita Springs, FL, November 8-10, 2007.

65. Karamlou T, Diggs B, Person T, Ungerleider RM, **Welke KF**. National practice patterns for management of adult congenital heart disease: operation by congenital surgeons decreases in-hospital mortality. Congenital Heart Surgeons' Society 2007 Annual Meeting, Chicago, IL, October 28-29, 2007.
66. **Welke KF**, Shen I, Ungerleider RM. Repair of tetralogy of Fallot with absent pulmonary valve. American College of Surgeons 93rd Annual Clinical Congress. New Orleans, LA, October 7-11, 2007.
67. Curzon, CL, Milford-Beland S, Li JS, O'Brien SM, Jacobs JP, Jacobs ML, **Welke KF**, Lodge AJ, Peterson E, Jagers J. Cardiac surgery in infants with low weight at time of surgery: a multi-center analysis of mortality. American Association for Thoracic Surgery 87th Annual Meeting, Washington, DC, May 5-9, 2007.
68. O'Brien, SM, Clarke DR, Jacobs JP, Maruszewski B, Jacobs ML, Walters HL III, Tchervenkov CI, **Welke KF**, Tobota Z, Stellin G, Mavroudis C, Hamilton JRL, Gaynor JW, Pozzi M, Lacour-Gayet FG. Accuracy of the Aristotle Basic Complexity Score for classifying the mortality and morbidity potential of congenital heart surgery procedures. Society of Thoracic Surgeons 43rd Annual Meeting, San Diego, CA, January 29-31, 2007.
69. **Welke KF**, Morris CD, King E, Komanapalli C, Shen I, Reller MD, Ungerleider RM. A population-based perspective of long-term outcomes after surgical repair of partial atrioventricular canal. Southern Thoracic Surgical Association 53rd Annual Meeting. Tucson, AZ, November 8-11, 2006.
70. **Welke KF**, Shen I, Ungerleider RM. Repair of tetralogy of Fallot with absent pulmonary valve. Southern Thoracic Surgical Association 53rd Annual Meeting. Tucson, AZ, November 8-11, 2006.
71. Schelbert E, Vaughn-Sarrazin M, **Welke K**, Rosenthal G. Valve type and longterm outcomes after aortic valve replacement in older patients. American College of Cardiology 55th Scientific Session, Atlanta, GA, March 11-14, 2006.
72. **Welke KF**, Shen I, Ungerleider RM. A current assessment of mortality rates in congenital cardiac surgery. Cardiology 2006: 9th Annual Update on Pediatric Cardiovascular Disease, State-of-the-Art Management of the Neonate and Infant with Cardiac Disease. Scottsdale, AZ, February 8-12, 2006.
73. Boshkov LK, Person TD, **Welke K**, Martchenko J, Shen I, Ungerleider R. Abnormal platelet function is common in pediatric congenital cardiac surgery patients. American Society of Hematology 47th Annual Meeting and Exposition, Atlanta, GA, December 10-13, 2005. Blood 2005;106:2182.
74. Schelbert E, Vaughn-Sarrazin M, **Welke K**, Rosenthal G. Renal disease, valve type, and outcomes after aortic valve replacement in older patients. American Heart Association Scientific Sessions, Dallas, TX, November 13-16, 2005.

75. Tripathy U, Komanapalli C, **Welke KF**, Shen I, Ungerleider RM. A modification of the Ross procedure to prevent autograft dilation. Southern Thoracic Surgical Association 52nd Annual Meeting. Orlando, FL, November 10-12, 2005.
76. **Welke KF**, Shen I, Ungerleider RM. Pediatric cardiac surgery outcomes: is the bar higher than we thought? Southern Thoracic Surgical Association 52nd Annual Meeting. Orlando, FL, November 10-12, 2005.
77. Keith J, Young TL, Dedecker CD, **Welke KF**, Kernstine KH. Post-Thoracotomy Therapeutic Bronchoscopy (TB): A Non-Evidenced Based Practice. American Thoracic Society 100th International Conference, San Diego, CA, May 20-24, 2005.
78. **Welke KF**, Dokhlyan RS, Vaughan Sarrazin MS, Rosenthal GE, Ferguson TB Jr., Peterson ED. A comparison of cardiac surgical volumes and mortality rates between the Society of Thoracic Surgeons and Medicare datasets 1993-2001. Sixth Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke. Washington, DC, May 14-16, 2005. *Circulation* 2005;111:E313.
79. Subramanian U, **Welke KF**, McCoy K, Vaughn TE, Ward MM, Doebbeling BN. Physician process measures for chronic heart failure: relationships to organizational characteristics. Society of General Internal Medicine 28th Annual Meeting, New Orleans, LA, May 11-14, 2005.
80. Hoyer AW, Shen I, Ungerleider RM, Reed RD, **Welke K**, Pham PP, Sahn DJ, Balaji S. Dual-site versus single-site ventricular pacing in patients with single ventricle physiology. Heart Rhythm Society 26th Annual Scientific Sessions. New Orleans, LA, May 4-7, 2005. *Heart Rhythm* 2005;2:S325.
81. Schelbert E, Vaughan Sarrazin MS, **Welke KF**, Rosenthal GE. Differences in the use of bioprosthetic and mechanical valves in older white and black patients undergoing aortic valve replacement. Fifth Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke. Washington, DC, May 15-17, 2004. *Circulation* 2004;109:E261.
82. Schelbert E, Vaughan Sarrazin MS, **Welke KF**, Rosenthal GE. Relationship between hospital volume and use of bioprosthetic versus mechanical valves in aortic valve replacement in older patients. Fifth Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke. Washington, DC, May 15-17, 2004. *Circulation* 2004;109:E268-9.
83. **Welke KF**, Vaughan Sarrazin MS, Rosenthal GE. Does hospital volume determine late survival after aortic valve replacement? Fifth Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke. Washington, DC, May 15-17, 2004. *Circulation* 2004;109:E253.
84. Dokholyan RS, **Welke KF**, Ferguson TB Jr, Peterson ED. Variation exists in adherence to secondary prevention prescribing guidelines following CABG. Fifth Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke. Washington, DC, May 15-17, 2004. *Circulation* 2004;109:E271.

85. Hogue C, McMurry S, Muhlbaier L, **Welke K**, Ferguson T. Stroke risk after CABG surgery is not modified by the development of postoperative atrial fibrillation. Society of Cardiac Anesthesiologists 26th Annual Meeting and Workshops, Honolulu, HI, April 24-28, 2004, *Anesth Analg* 2004;98:SCA17.
86. Kernstine KH, Busick NP, McLaughlin KA, Sarin RR, **Welke KF**, Thomas KW, Everett JE, Brown CK. In stage I nonsmall cell lung cancer (NSCLC), Does tumor size predict survival? The Society of Surgical Oncology 57th Annual Cancer Symposium, New York, NY, March 18-21, 2004, *Ann Surg Oncol* 2004;11:S128.
87. **Welke KF**, Vaughan Sarrazin MS, Rosenthal GE. Should volume influence patient choice of hospital for aortic valve replacement? American College of Cardiology 53rd Scientific Session, New Orleans, LA, March 7-10, 2004, *J Am Coll Cardiol* 2004;43(Suppl A):419A.
88. **Welke KF**, Kazis LE, Flach SD, Appugliese DP, Yankey JW, Lee A, Doebbeling BN. Functional health predicts future intervention for coronary artery disease. American College of Cardiology 52nd Scientific Session, Chicago, IL, March 30 – April 2, 2003, *J Am Coll Cardiol* 2003;41(Suppl A):521A.
89. **Welke KF**, Vaughan Sarrazin MS, Rosenthal GE. Is hospital volume a determinant of late survival after coronary artery bypass grafting? Fourth Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, Washington, DC, October 12-14, 2002, American Heart Association Scientific Sessions, Chicago, IL, November 17-20, 2002, *Circulation* 2002;106(Suppl II):II-763.
90. **Welke KF**, Vaughan Sarrazin MS, Rosenthal GE. The peril of using hospital volume alone as a measure of quality of coronary artery bypass grafting. American Heart Association Scientific Sessions, Chicago, IL, November 17-20, 2002, *Circulation* 2002;106 (Suppl II):II-753.
91. Hammel JM, Van Natta TL, Wang LX, **Welke KF**, Barner EW, Acarregui MJ, Scholz TD, Segar JL, Caldarone CA. Cardioplegic arrest causes greater myocardial apoptosis in neonatal than mature lambs. American Heart Association Scientific Sessions, Chicago, IL, November 17-20, 2002, *Circulation* 2002;106(Suppl II):II-658.
92. Hammel JM, Van Natta TL, Wang LX, **Welke KF**, Barner EW, Acarregui MJ, Scholz TD, Segar JL, Caldarone CA. Age-related susceptibility to myocardial apoptosis after cardioplegic arrest in neonatal and mature lambs. American Academy of Pediatrics National Conference and Exhibition, Boston, MA, October 18-23, 2002.
93. **Welke KF**, McCoy KD, Vaughn T, BootsMiller BJ, Ward MM, Doebbeling BN. Which factors promote adherence to a congestive heart failure guideline in the VA national health care system? *J Gen Intern Med* 2002;17(Suppl I):217.
94. Vaughn TE, **Welke KF**, Ward, MM, McCoy KD, BootsMiller BJ, Woolson RF, Doebbeling BN. Organizational structures support implementation and adherence to VA clinical practice

- guidelines. In: Selected Abstracts of the Veterans Administration Health Services Research and Development 20th Annual Meeting, Washington, DC, February 13-15, 2002. p. 86-7.
95. BootsMiller BJ, **Welke KF**, McCoy KD, Vaughn TE, Ward MM, Woolson RF, Doebbeling BN. Strategies that improved knowledge of the VA CHF practice guideline did not increase compliance. In: Selected Abstracts of the Veterans Administration Health Services Research and Development 20th Annual Meeting, Washington, DC, February 13-15, 2002. p. 59-60.
 96. Peloso PM, Carney-Doebbeling C, Vaughn TE, BootsMiller BJ, **Welke KF**, Letuchy E, Franciscus C, Woolson RF, Doebbeling BN. Predictors of screening for depression in a national sample. In: Selected Abstracts of the Veterans Administration Health Services Research and Development 20th Annual Meeting, Washington, DC, February 13-15, 2002. p. 55-6.
 97. Foster T, Ogrinc G, Miller M, Stevens J, Wardell A, **Welke K**, Batalden P. Six competencies in search of a community: Reports from the appointing organizations to the Accreditation Council for Graduate Medical Education (ACGME). In: Proceedings of the Institute for Health Care Improvement 13th Annual National Forum on Quality Improvement in Health Care, Orlando, FL, December 9-12, 2001. M14:1.
 98. O'Connor GT, Leavitt BJ, Marrin CAS, Westbrook BM, Pipierro FV, Cohn WE, Surgenor SD, **Welke KF**, Ross CS. Who dies after cardiac surgery? American Heart Association Scientific Sessions, Anaheim, CA, November 10-13, 2001, Circulation 2001;104(Suppl II):II-815-6.
 99. **Welke KF**, Stevens JP, Schults WC, Nelson EC, Beggs VL, Baldwin JC, Nugent WC. Patient characteristics predict improvement in functional health after elective CABG. Third Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, Washington, DC, September 30 - October 1, 2001, Am Heart J 2002;144:44
 100. **Welke KF**, Tarry WC, Wagner RJ, Kitzmiller TJ, Bech FR. Matrix metalloproteinase activation is associated with extracellular matrix synthesis following arterial injury. Surgical Forum, American College of Surgeons 83rd Clinical Congress, Chicago, IL, October 12-17, 1997.

Regional or State Societal Meetings

1. Tripathy S, Read C, Henrekin LL, **Welke K**. Kano analysis on delighters, satisfiers, and dissatisfiers of pediatric cardiac critical care rounds. 40th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Madison, WI, September 15-16, 2016.
2. Luo L, Ruzemtov M, Shah JJ, **Welke KF**. Should bicuspid aortic valve be included in the criteria for shone's complex? 39th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Peoria, IL September 10-11, 2015.
3. Ruzmetov M, Fortuna RS, Shah JJ, Geiss DM, **Welke KF**. Bicuspid aortic valve morphology: does the pattern of leaflet fusion determine the success of the ross procedure? 39th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Peoria, IL September 10-11, 2015.

4. Moore JC, Albaro CA, Shah RG, **Welke KF**, Duncan AM, Shah JJ, Bramlet MT. Abnormal fetal z-scores are sensitive screening tools for the detection of congenital heart disease. 39th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Peoria, IL September 10-11, 2015.
5. Ruzmetov M, Shah JJ, Fortuna RS, **Welke KF**. Patterns of aortopathy and valve pathology differ in children and young adults with bicuspid aortic valve and marfan's syndrome. 39th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Peoria, IL September 10-11, 2015.
6. Albaro CA, Shah RG, **Welke KF**, Duncan AM, Shah JJ, Bramlet MT. Abnormal fetal z-scores are a sensitive predictor of fetal congenital heart disease. 38th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Ann Arbor, MI, September 11-12, 2014.
7. Bramlet M, Fortuna R, **Welke K**. Preoperative assessment using 3-D models improves surgical planning for patients with complex congenital cardiac defects. 38th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Ann Arbor, MI, September 11-12, 2014.
8. Ruzmetov M, Molina N, Shah JJ, Fortuna RS, **Welke KF**. Bicuspid aortic valve morphology: does the pattern of leaflet fusion determine aortic and valvular pathology? 38th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Ann Arbor, MI, September 11-12, 2014.
9. **Welke KF**, Karamlou T, He X, Jacobs ML, Jacobs JP, Pasquali SK. Surgeon volume is associated with operative morality after congenital cardiac surgery. 37th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Chicago, IL, September 19-20, 2013.
10. **Welke KF**, Barnett MJ, Vaughan Sarrazin MS, Rosenthal GE. The limitations of hospital volume as a measure of quality of care for coronary artery bypass surgery. American College of Surgeons – Oregon Chapter Annual Meeting. Sunriver, OR, July 1-2, 2005.
11. Hammel JM, Van Natta TL, Wang LX, **Welke KF**, Barner EW, Acarregui MJ, Scholtz TD, Segar JL, Caldarone CA. Myocardial apoptosis after cardioplegic arrest in the neonatal lamb. 26th Annual Midwest Pediatric Cardiology Society Scientific Sessions, Chicago, IL, September 25-28, 2002.
12. Hammel JM, Van Natta TL, Wang LX, **Welke KF**, Barner EW, Acarregui MJ, Scholtz TD, Segar JL, Caldarone CA. Cardioplegic arrest causes greater myocardial apoptosis in neonatal than mature lambs. Annual Meeting for the Midwest Pediatric Cardiology Society, Chicago, IL September 12-13, 2002.
13. **Welke KF**, Tarry WC, Wagner RJ, Kitzmiller TJ, Bech FR. Trauma induced intimal hyperplasia: the role of matrix metalloproteinases in the healing of arterial injury. American College of Surgeons Region I Committee on Trauma Annual Meeting, Boston, MA, December 1997.

Local Meetings

1. Karamlou T, Diggs BS, **Welke KF**, Ravichandran P, Tibayan F, Slater MS, Alder E, Guyton S, Gelow JM, Kim A, Broberg C, Weiss J, Song HK. Impact of single ventricle physiology on

outcomes of adult congenital heart disease patients undergoing heart transplantation. Fellows' Research Day, Seattle Children's Hospital Research Institute, Seattle, WA, April 22, 2011.

2. Walker WL, Karamlou T, Diggs, BS, Ehieli EI, Caddell, K, de la Cruz JS, **Welke KF**. Geography or pathology? Regional variation in atrial septal defect closure rates and techniques. Oregon Health and Science University 26th Annual Student Research Day, Portland, OR, May 14-15, 2009.
3. Caddell KA, Diggs B, de la Cruz D, Walker W, Ehieli E, Karamlou T, Ungerleider RM, **Welke KF**. Common ground: intra-institutional correlations of mortality rates among high-risk pediatric surgical specialties. Oregon Health and Science University 26th Annual Student Research Day, Portland, OR, May 14-15, 2009.
4. Ehieli E, Karamlou T, Diggs BS, Walker W, Caddell K, de la Cruz JS, Ungerleider RM, **Welke KF**. Guideline or geography: Which determines valve type for aortic valve replacement in older patients? Sigma Xi Student Research Day at Thomas Jefferson University, Philadelphia, PA, April 8, 2009.
5. **Welke KF**. Should volume influence patient choice of hospital for aortic valve replacement? Research Day, Department of Surgery, The University of Iowa Hospitals and Clinics, Iowa City, IA, March 12, 2004.
6. **Welke KF**. The peril of using hospital volume alone as a measure of quality of coronary artery bypass grafting. Research Day, Department of Surgery, The University of Iowa Hospitals and Clinics, Iowa City, IA, April 25, 2003.
7. **Welke KF**. Does the volume outcomes relationship in cardiac surgery persist beyond 30 days? Residents' and Fellows' Research Day, Department of Surgery, The University of Iowa Hospitals and Clinics, Iowa City, IA, May 10, 2002.

Electronic Media

1. Tripathy U, Komanapalli C, Shen I, **Welke KF**, Ungerleider R. A modification of the Ross procedure to prevent autograft dilation. 2006 (video) <https://www.ctsnet.org/article/modification-ross-procedure-prevent-autograft-dilation>
2. **Welke KF**, Shen I, Ungerleider RM. Repair of tetralogy of Fallot with absent pulmonary valve. 2007 (video) <https://www.ctsnet.org/article/repair-tetralogy-fallot-absent-pulmonary-valve>

Research Support

Completed

Principal Investigator

Children's Heart Foundation

Developing a national model for regionalization of care for children undergoing congenital cardiac surgery in the United States, 2015-2017

Page 36 of 39
Karl Welke, M.D.

\$130,914

Co-investigator

National Institutes of Health Challenge Grant (1RC1HL099941-01)

Comparative effectiveness of medications used in congenital heart surgery, 2009-2011

\$847,352

Co-investigator

American Heart Association

Center volume as a marker of quality in infants with hypoplastic left heart syndrome undergoing the Norwood procedure: the potential impact of regionalization of care, 2009-2011

\$98,745

Principal investigator

Heart Research Center, Oregon Health and Science University

A population based perspective of long-term outcomes after surgical repair of congenital cardiac defects, 2007-2008

\$15,000

Principal investigator

National Institutes of Health T32 National Research Training Award

Institutional Training Grant (HL 07121-27) Iowa Cardiovascular Center Institutional Research Fellowship, 2001-2002

\$44,412

Educational Activities

Formal Teaching

1. Quality improvement in health care. K30 Preceptored Research Didactic – Introduction to Patient Oriented Research 050:228:001, College of Medicine, The University of Iowa, Iowa City, IA, August 7, 2002.
2. Valve options. Fellows' Conference, Division of Pediatric Cardiology, Oregon Health and Science University, Portland, OR, November 21, 2007.
3. Measuring mortality in congenital cardiac surgery. Division of Cardiothoracic Surgery, Oregon Health and Science University, Portland, OR, October 15, 2007.
4. Cardiopulmonary bypass. Fellows' Conference, Division of Pediatric Cardiology, Oregon Health and Science University, Portland, OR, August 22, 2007.
5. Surgical aspects of coronary artery disease. Clinical Medicine IV PAST 514, School of Medicine, Oregon Health and Science University, Portland, OR, May 11, 2006.

6. Cardiopulmonary bypass basics. Fellows' Conference, Division of Pediatric Cardiology, Oregon Health and Science University, Portland, OR, August 26, 2005.
7. Surgical aspects of coronary artery disease. Clinical Medicine IV PAST 514, School of Medicine, Oregon Health and Science University, Portland, OR, April 22, 2005.
8. Cardiopulmonary bypass. Fellows' Conference, Division of Pediatric Cardiology, Oregon Health and Science University, Portland, OR, March 4, 2005.
9. The case for measuring health status in cardiothoracic surgery. Division of Cardiothoracic Surgery Teaching Conference, The University of Iowa Hospitals and Clinics, Iowa City, IA, March 10, 2003.
10. Mitral Stenosis. Division of Cardiothoracic Surgery Teaching Conference, The University of Iowa Hospitals and Clinics, Iowa City, IA, July 22, 2002.
11. Hiatal and paraesophageal hernias. Division of Cardiothoracic Surgery Teaching Conference, The University of Iowa Hospitals and Clinics, Iowa City, IA, March 25, 2002.
12. Heart transplantation: economics, access, and ethics. Health Economics 06E:113:001, Henry B. Tippie College of Business, The University of Iowa, Iowa City, IA, February 26, 2002.
13. Malignant diseases of the mediastinum. Division of Cardiothoracic Surgery Teaching Conference, The University of Iowa Hospitals and Clinics, Iowa City, IA, January 28, 2002.
14. Quality improvement in health care: how to develop and implement an improvement program. Invited lecture, Seminar in Clinical Research, Graduate Training Program in Clinical Investigation, Department of Internal Medicine, University of Iowa College of Medicine, Iowa City, IA, January 17, 2002.
15. Treatment options for non-small cell lung cancer. Division of Cardiothoracic Surgery Teaching Conference, The University of Iowa Hospitals and Clinics, Iowa City, IA, November 19, 2001.
16. Thoracic outlet syndrome and congenital deformities of the thoracic cage. Division of Cardiothoracic Surgery Teaching Conference, The University of Iowa Hospitals and Clinics, Iowa City, IA, October 29, 2001.

Supervisory teaching

| | | |
|---------------------|------------------|-----------|
| Thomas Person, M.D. | Surgery Resident | 2006-2008 |
|---------------------|------------------|-----------|

Direct supervision

Medical Students

| | | |
|----------------|------------------|------|
| Larkin Luo, M1 | Research project | 2015 |
|----------------|------------------|------|

| | | |
|----------------------|---------------------|-----------|
| Kirk Caddell, M1 | Research fellowship | 2008-2009 |
| Dodie de la Cruz, M1 | Research fellowship | 2008-2009 |
| Eric Ehieli, M1 | Research fellowship | 2008-2009 |
| Wendy Walker, M1 | Research fellowship | 2008-2009 |

Residents

| | | |
|-----------------------|---|-----------|
| Tara Karamlou, M.D. | Surgery Resident, Thoracic Surgery Resident | 2006-2009 |
| Gautam Velamoor, M.D. | Thoracic Surgery Resident | 2006-2007 |
| Hannan Chaugle, M.D. | Thoracic Surgery Resident | 2005-2006 |
| Uttam Tripathy, M.D. | Thoracic Surgery Resident | 2004-2005 |

Fellows

| | | |
|-----------------------------|--|-----------|
| Elise Zaragoza-Macias, M.D. | Adult Congenital Heart Disease Fellow (Research) | 2012-2013 |
| Robroy MacIver, M.D. | Congenital Cardiac Surgery Fellow | 2011-2013 |
| Tara Karamlou, M.D. | Congenital Cardiac Surgery Fellow | 2009-2011 |

Community Service

| | | |
|-------------------------------|---|-----------|
| Volunteer physician | Iowa City Free Medical Clinic Iowa City, IA | 2001-2004 |
| Medical Advisory Committee | Good Neighbor Health Clinic White River Junction, VT | 2000-2001 |
| Volunteer physician | Good Neighbor Health Clinic White River Junction, VT | 1996-2001 |
| Volunteer | Talks to Tykes Program University of Illinois, College of Medicine | 1991-1992 |

Unique Activities

| | | |
|--|--|--------------|
| Cardiology and Heart Surgery Working Group Best Children's Hospitals Project | U.S. News & World Report Washington, DC | 2013-present |
| Pediatric Intensive Care Unit Council | Children's Hospital of Illinois Peoria, IL | 2016-2017 |
| Pediatric Intensive Care Unit Quality Focus Group | Children's Hospital of Illinois Peoria, IL | 2016-2017 |
| Search Committee Director of Pediatric Critical Care | University of Illinois College of Medicine Peoria, IL | 2015-2016 |

| | | |
|--|--|-----------|
| Search Committee Pediatric Cardiac Intensive Care | University of Illinois College of Medicine Peoria, IL | 2015-2017 |
| Search Committee Congenital Cardiac Surgeon | Children's Hospital of Illinois Peoria, IL | 2014 |
| Work Life Balance Committee | Seattle Children's Hospital Seattle, WA | 2012-2013 |
| Multi-Societal Database Committee for Pediatric and Congenital Heart Disease | The Congenital Heart Institute of Florida St. Petersburg, FL | 2006 |
| Multi-Center Panel of Experts for Cardiac Surgical Outcomes | Children's Hospital Boston Boston, MA | 2005 |
| Quality and Performance Improvement Committee | University of Iowa Heart Care The University of Iowa Hospitals and Clinics Iowa City, IA | 2001-2004 |
| Education Committee | Department of Surgery Dartmouth-Hitchcock Medical Center | 1994-1996 |
| Equal Opportunity/ Affirmative Action Committee | University of Illinois, College of Medicine Peoria, IL | 1992-1994 |
| Evaluation Committee | University of Illinois, College of Medicine Peoria, IL | 1991-1992 |

▫ Mecklenburg County, NC

Air Quality Commission

Board Details

The Mecklenburg County Board of County Commissioners created the Mecklenburg County Air Quality Commission (AQC) with the mission and duty to promote the protection, preservation, and enhancement of the ambient air resources of Mecklenburg County, North Carolina.

The AQC shall provide citizen and stakeholder input to the Board of County Commissioners, local municipalities and staff through the review and recommendation of air pollution management policies, long-range plans, operations and their budgetary impacts in order to achieve the above mission.

Overview

- **Size** 12 Seats
- **Term Length** 3 Year
- **Term Limit** 2 Term

Contact

- **Name** Leshishua Pierce
- **Phone** (980) 314-3359

Additional

Qualifications

Persons serving must be a resident of Mecklenburg County. Appointed members must attend a minimum of 65% of all scheduled meetings in a calendar year and cannot miss three consecutive meetings. Failure to comply with attendance requirements will result in removal from the advisory board.

Advisory Board Details

The membership of the Air Quality Control shall be divided according to the following vocations or interests represented: One (1) Health Professional (HP), One (1) Engineer (ENG), One (1) Industrial (I), One (1) Scientist (S), One (1) Environmental (E), One (1) Attorney (ATTY), One (1) Transportation (T), and Five (5) General Public (GP). The Board shall ensure that at least four (4) members shall reside in the City of Charlotte; at least one (1) member shall reside in the Town of Cornelius (COR), Davidson (D) or Huntersville (HUN) and one (1) member shall reside in the Town of Matthews (MAT), Mint Hill (MH) or Pineville (PINE).

Meeting Dates/Times

Monthly- 4th Monday at 11:30 a.m.

Meeting Location

Suttle Avenue County Service Center - 2145 Suttle Avenue Charlotte, NC 28202, 4th Floor Ed Woods Conference Room

Time Commitment

1.5 hour per month

Stipend

No

Special Notes

Tue 2/8/2022 12:03 PM (email from Ieshishua S. Pierce to Aaron Alexander): "I would like to note that we currently have 3 members serving that we would like to have listed in the Granicus system until the following 3 vacant slots listed below are filled, please advise. " - Currently vacant- Matthews (General Public) currently filled by Gordon Miller - Currently vacant - Huntersville (Industrial) currently filled by Marcus Hackler (Vice Chair) - Currently vacant - Attorney currently filled by Peter McGrath (Chair)
*Currently serving until vacancies are filled**

Job Description

Mecklenburg County, NC

Air Quality Commission

Board Roster

Peter McGrath Jr.

2nd Term Feb 15, 2011 - Aug 01, 2020

Email petermcgrath@mvalaw.com

Home Phone : 7043707792

Alternate Phone : 7043311081

Address

1010 Lexington Av
Charlotte, NC 28203

Appointing Authority BOCC

Category ATTORNEY

Marcus Hackler

2nd Term Aug 05, 2014 - Aug 31, 2020

Email mwhackler@laneconstruct.com

Home Phone : 7043153014

Alternate Phone : 7043953264

Address

9711 Rose Commons Dr
313
Huntersville, NC 28078

Appointing Authority BOCC

Category NORTHERN TOWNS-INDUSTRIAL

Billy Powers

1st Term Aug 04, 2021 - Aug 31, 2024

Email mrpowers1@gmail.com

Home Phone Business: (704) 685-3789

Alternate Phone Home: (704) 685-3789

Address

3111 Ernest Russell Ct
Charlotte, NC 28269

Appointing Authority BOCC

Category TRANSPORTATION

Brian Magi

2nd Term Aug 03, 2016 - Aug 31, 2024

Email brian.magi@unc.edu

Home Phone Home: (980) 333-7126

Address

9514 Fernspray Rd
Charlotte, NC 28215

Appointing Authority BOCC

Category SCIENTIST

□ **Karl F Welke**

1st Term Aug 04, 2021 - Aug 31, 2024

Email karlwelke@gmail.com

Home Phone Mobile: (503) 545-7453

Address

3115 Wickersham Road
Charlotte, NC 28211

Appointing Authority BOCC

Category GENERAL PUBLIC

□ **Lisa Hooker**

1st Term Feb 16, 2021 - Aug 31, 2025

Email lisa.hooker@bellsouth.net

Home Phone Home: (919) 524-2706

Alternate Phone Home: (704) 425-5188

Address

11425 Mangla Drive
Charlotte, NC 28214

Appointing Authority BOCC

Category GENERAL PUBLIC

□ **William Lawrence**

1st Term Sep 07, 2022 - Aug 31, 2025

Email lawrence.bill@outlook.com

Home Phone Mobile: (704) 502-8811

Alternate Phone Business: (704) 948-6660

Address

9108 Park Grove Street
Huntersville, NC 28078

Appointing Authority BOCC

Category GENERAL PUBLIC

□ **Gregory D Twait**

1st Term Sep 07, 2022 - Aug 31, 2025

Email gtwait@outlook.com

Home Phone Mobile: (803) 908-7550

Alternate Phone Home: (704) 947-6165

Address

8408 Wren Creek Drive
Charlotte, NC 28269

Appointing Authority BOCC

Category ENGINEER

□ **Janet Garner-mullins**

1st Term Feb 16, 2021 - Aug 31, 2025

Email jmullin0@bellsouth.net

Home Phone Home: (704) 491-3089

Address

1014 Comstock Drive
Charlotte, NC 28217

Appointing Authority BOCC

Category GENERAL PUBLIC

□ **Richard Matulis**

1st Term Jun 21, 2023 - Aug 31, 2026

Email rmmatulis@aol.com

Home Phone Home: (704) 321-7274

Address

6231 Falls Lake Drive
Charlotte, NC 28270

Appointing Authority BOCC

Category GENERAL PUBLIC

□ **Aaron Levy**

2nd Term Apr 18, 2017 - Aug 31, 2026

Email aalevy2@gmail.com

Home Phone Home: (615) 504-2268

Address

550 Sandridge Rd
Charlotte, NC 28210

Appointing Authority BOCC

Category HEALTH PROFESSIONAL

□ **Vacancy**

Appointing Authority BOCC

Category ENVIRONMENTAL