**Amalia (Meier) Magaret, PhD**

### 1. CONTACT INFORMATION

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### 2. PERSONAL DATA

Place of Birth: Maryville, Missouri, USA

### 3. EDUCATION

1. 1992 BS in Chemistry/Math, University of Notre Dame
2. 1997 MS in Applied Statistics, Western Michigan University
3. 2001 PhD in Biostatistics, University of Washington

### 4. POST GRADUATE TRAINING

1. 1998-00 Statistician, Department of Obstetrics and Gynecology, University of
2. Washington, Seattle, WA
3. 1998-05 Statistician and Consultant, University of Washington research projects at
4. Kenyatta National Hospital, Nairobi, Kenya
5. 2000-01 Pre-Doctoral Fellow, Center for AIDS/STD Research, Seattle, WA
6. 2002-03 Post-Doctoral Research Associate, SCHARP,
7. Fred Hutchinson Cancer Research Center, Seattle, WA
8. 2003-04 Clinical Research Associate, Infectious Diseases
9. Fred Hutchinson Cancer Research Center, Seattle, WA

### 5. FACULTY POSITIONS HELD

1. 2004-10 Research Assistant Professor, Laboratory Medicine, UW
2. 2004-10 Joint Assistant Member, Biostatistics, FHCRC
3. 2004+ Member of the Graduate Faculty, UW
4. 2010-2016 Research Associate Professor, Laboratory Medicine, UW
5. 2013-2016 Adjunct Res. Associate Professor, Department of Biostatistics, UW
6. 2010-2018 Joint Associate Member, VIDD, FHCRC
7. 2010-2018 Joint Associate Member, Biostatistics, FHCRC
8. 2016-2019 Research Professor, Laboratory Medicine, UW
9. 2016+ Adjunct Research Professor, Department of Biostatistics, UW
10. 2018+ Affiliate Member, VIDD and Biostatistics, FHCRC
11. 2019+ Research Professor, Pediatrics, UW

### 6. HOSPITAL POSITIONS HELD N/A

### 7. HONORS

1. 1997 ASA Award for Outstanding Achievement, Western Michigan University
2. 2001 Outstanding Student in Biostatistics, SPHCM, University of Washington

### 8. BOARD CERTIFICATION N/A

### 9. CURRENT LICENSE TO PRACTICE N/A

### 10. PROFESSIONAL ORGANIZATIONS

1. 2001+ American Statistical Association
2. 2001+ International Biometric Society (Western North American Region)

### 11. TEACHING RESPONSIBILITIES

Table 1. School of Public Health courses taught

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course**  | **Title**  | **Credits**  | **Years**  | **Students**  | **Responsibility**  |
| Biost 310 | Biostatistics for the Health Sciences | 3 | 2015 | 94 | All lectures |
| Epi 590 | Vaccines | 3 | 2006 to 2018 | 50 | 1 lecture  |
| Early Fall Start | ‘CIS Seattle’ | N/A | 2012 | 40 | 1 lecture |

Table 2. UW Mentoring responsibilities (last 5 years)

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Role** | **Student**  | **Department** |
| 2013 | Member, MPH Thesis committee | Tara Perti | Epidemiology |
| 2013 | GSR, Dissertation committee | Laura Newman | Epidemiology |
| 2013 | Mentor, research assistantship | Fedelis Mutiso | Biostatistics |
| 2013 | Member, MPH Thesis committee | Nicole Boyle | Epidemiology |
| 2014 | Member, MPH Thesis committee | Benjamin Zaniello | Epidemiology |
| 2014 | Mentor, research assistantship | Anqi Cheng | Biostatistics |
| 2015 | Member, MPH Thesis committee | Elfriede Agyemang | Epidemiology |
| 2015 | Member, MPH Thesis committee | Jessica Yager | Epidemiology |
| 2015 | Mentor, independent study | Adam Brand | Biostatistics |
| 2015 | Mentor, research assistantship | Anya Mikhaylova | Biostatistics |
| 2016 | Member, MPH Thesis committee | Jenny Lenahan | Epidemiology |
| 2016 | Member, MPH Thesis committee | Cecilia Lee | Epidemiology |
| 2016 | Member, MPH Thesis committee | Nazila Dabestani | Epidemiology |
| 2016 | Mentor, research assistantship | Yunqi Bu | Biostatistics |
| 2016 | Mentor, research assistantship | Jiaqi Yin | Biostatistics |
| 2017 | Member, MPH Thesis committee | Yuan Zhou | Epidemiology |
| 2017 | Mentor, research assistantship | Hyunju Son | Biostatistics |
| 2018 | Member, MPH Thesis committee | Helen Karita | Epidemiology |
| 2018 | Member, MPH Thesis committee | Mary Chan | Epidemiology |
| 2018 | Chair, MS Thesis committee | Michael Flanagin | Biostatistics |
| 2019 | Mentor, research assistantship | Mark Warden | Epidemiology |
| 2019 | Mentory, independent study | Kun Yue | Biostatistics |

Table 3. Community service teaching

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Event** | **Title**  | **Years**  | **Students**  | **Responsibility**  |
| Expand Your Horizons, STEM at Edmonds Community College | Using math to prevent HIV | 2013 | 40 | 1 lecture |

### 12. EDITORIAL RESPONSIBILITIES

 None

### 13. SPECIAL NATIONAL RESPONSIBILITIES

 1992-1994 United States Peace Corps volunteer, Gabon, West Africa

 Taught math and science at the junior high level, in French

 2006-8 Grant reviewer for Pennsylvania State Department of Health

 2009 Grant reviewer for Bill and Melinda Gates Foundation

 2017 Grant reviewer for National Institutes of Allergy and Infectious Disease,

 NIH, T-cell reagent research for the study of allergic diseases (U19)

### 14. SPECIAL LOCAL RESPONSIBILITIES

1. 2005-11 Institutional Review Board, Cancer Research and Biostatistics, Seattle WA

 2013-18 Member, Admissions Committee, Department of Biostatistics

 2014-19 Member, Grand Rounds Committee, Department of Lab Medicine

 2016-19 Member, Appointments and Promotions Committee, Dept of Lab Medicine

 2018+ Member, Appointments and Promotions Committee, School of Medicine

### 15. RESEARCH FUNDING

**Active funding**

**Pending funding**

**Completed funding**

 UW Center for AIDS and STD Research Fellowship 01/01/00 - 12/20/01

 P01 AI30731-23 (A. Wald) 7/1/2013-6/30/2018

NIH / NIAID : Role: Core Leader; Statistical Core

**Clinical Epidemiology & Pathogenesis of Asymptomatic Genital Herpes (Core C)**

This Core of the P01 grant has four specific aims: 1) consult in the design of experimental methods, including sample size computation, and the conceptualization of viral dynamics studies, 2) coordinate data management, overseeing data collection procedures, laboratory sample management, results handling and integration of diverse data sources, 3) perform appropriate statistical analyses and modeling, contributing to the interpretation and reporting of results, 4) design novel dynamical mathematical models and other statistical methodologies as needed, optimizing our analytic approach.

Grant 26469 (Celum, PI) 05/01/03 - 4/01/09

 Bill & Melinda Gates Foundation: Role: Co-investigator, Statistical Manager

 **HSV-2 Suppression to Prevent HIV Transmission**

 To conduct a multi-site randomized trial in Africa and Asia to assess the efficacy of

 acyclovir treatment on the sexual transmission of HIV in HIV-serodiscordant

 couples.

RO1 CA 213130-01 (M. Madeleine) 2/22/2017-08/21/2020

FHCRC/NIH: Role: Co-investigator

**Therapeutic use of HPV L1 vaccine in anogenital neoplasia: VIVA Trial**

We will conduct a randomized, double-blind, placebo-controlled proof-of-concept clinical trial of quadrivalent HPV vaccine administered to women and men with high-grade intraepithelial vulvar or anal neoplasia, or Stage 1 vulvar or anal cancer.

U19 AI 113173-02 (Marrazzo) 07/01/2014-06/30/2019 NIH: Role: Co-investigator

**UW STI CRC: The Genital Microbiome as a Determinant of Sexual Health & Local Immunity**

Our objective is to establish a Sexually Transmitted Infection (STI) Cooperative Research Center at the University of Washington (UW) to investigate interactions between the human genital microbiome and syndromes and pathogens that contribute to STI-related morbidity. We will apply our innovative approach of intensive sampling and robust characterization of the genital microbiome to investigation of STI pathogens and bacterial communities.

### 16. BIBLIOGRAPHY

### Manuscripts in Refereed Journals

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5. Eschenbach DA, Patton DL, Hooton TM, **Meier AS**, Stapleton A, Aura J, Agnew K. Effects of vaginal intercourse with and without a condom on vaginal flora and vaginal epithelium. 2001. J Infect Dis;183(6):913-8.
6. Van Kessel K, Reed S, Newton K, **Meier A**, Lentz G. 2001. The second stage of labor and stress urinary incontinence. Am J Obstet Gynecol;184(7):1571-5.
7. Mwachari C, Cohen CR, **Meier A**, Nganga L, Kimari J, Odhiambo J. 2001. Respiratory tract infection in HIV-1 infected adults in Nairobi, Kenya: evaluation of risk factors and the WHO treatment algorithm. J Acquir Immune Defic Syndr;27(4):365-71.
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11. **Meier AS**, Richardson BA, Hughes JP. 2003. Discrete proportional hazards models for mismeasured outcomes. Biometrics;59:947-54.
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### Book Chapters

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### Published books, videos, software

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13. Looker KJ, **Magaret AS**, Turner KME, Vickerman P, Gottlieb SL and Newman L. Global and WHO regional estimates of herpes simplex virus type 2 (HSV-2) infections in 2012. British Association for Sexual Health and HIV, Glasgow, Scotland, 2015.
14. Chu HY, Katz J,Tielsch J, Khatry SK, LeClerq S, **Magaret A**,Kuypers J, Steinhoff M, and Englund JA. MDRSV Infection in Infants is Associated with Low Mortality in Rural Nepal. Infectious Diseases Society of America, Seattle, WA, 2015.
15. Agyemang EA, **Magaret AS**, Selke S, Johnston C, Corey L, Wald A. HSV Shedding: surrogate for disease severity and response to antivirals. Infectious Diseases Society of America, Seattle, WA, 2015.
16. Mugo N, Eckert L, Cheng A, **Magaret A**, Celum C, Saah A, Baeten J, Galloway D, Ngure K, Wamalwa D, Wald A. Quadrivalent HPV vaccine in HIV-infected early adolescent girls and boys in Kenya: immunogenicity and correlation with immune status. International Papilloma Virus, Lisbon, Portugal, 2015.
17. Wald A, **Magaret A**, Warren T, Van Wagoner N, Kreisel J, Tyring S, Fife K, Seiden D, Smith L, Mammen M. Therapeutic DNA vaccine for genital herpes. Interscience Conference on Antimicrobial Agents and Chemotherapy, Boston, 2016.
18. Dabestani N, Dombrowski J, **Magaret A**, Katz D, Wald A, Johnston C. Time Trends in First Episode Genital HSV in an Urban STD Clinic. National STD Prevention Conference, Atlanta GA, 2016.
19. Agyemang EA, Warren T, Selke S, **Magaret A**, Johnston C, Wald A. Performance of Commercial Enzyme-Linked Immunosorbent Assays (ELISAs) for Diagnosis of HSV-1 and HSV-2 Infection in a Clinical Setting. National STD Prevention Conference, Atlanta GA, 2016.
20. Hill JA, Hall-Sedlak R, **Magaret A**, Mikhaylova A, Huang ML, Jerome KR, Zerr DM, Boeckh M. Large-Scale Identification and Characterization of Hematopoietic Cell Transplant Recipients and their Donors with Inherited Chromosomally Integrated HHV-6. IDWeek, New Orleans LA, 2016.
21. Hill JA, Hall-Sedlak R, **Magaret A**, Mikhaylova A, Huang ML, Jerome KR, Zerr DM, Boeckh M. Outcomes after allogeneic hematopoietic cell transplantation with donors or recipients harboring inherited chromosomally integrated HHV-6. BMT Tandem, Orlando, FL, 2017.
22. Micks E, Son H, **Magaret A**, Selke S, Johnston C, Wald A. The effects of follicular versus luteal phase menstrual cycle timing on genital herpes simplex virus-2 shedding and lesions. International Society for Sexually Transmitted Diseases Research, Rio, Brazil, 2017.
23. Johnston C, **Magaret A**, Yuhas K, Srinivasan S, Proll S, Hughes UP, Kohler CM, Varon D, Pholsena N, Marrazzo JM, Fredricks DN, Wald A. Association between genital herpes simplex virus type-2 shedding and presence and quantity of bacterial vaginosis-associated bacteria. International Society for Sexually Transmitted Diseases Research, Rio, Brazil, 2017.
24. Johnston C, Son H, **Magaret A**, Stern M, Huang ML, Selke S, Jerome KR, Koelle DM, Wald A. Decline in genital shedding in the year after first clinical episode genital herpes simplex virus type 1. International Society for Sexually Transmitted Diseases Research, Rio, Brazil, 2017.
25. Micks E, Son H, **Magaret A**, Selke S, Johnston C, Wald A. The effect of hormonal contraception and menstrual cycle timing on genital herpes simplex virus-2 shedding and lesions. Infectious Diseases Society for Obstetrics and Gynecology, Park City, Utah, 2017.
26. Azenkot T, Zaniello B, Green ML, Selke S, Huang ML, **Magaret A**, Wald A, Johnston C. Frequent cytomegalovirus shedding in breastmilk in healthy women persists up to 17 weeks post-partum. Infectious Diseases Society for Obstetrics and Gynecology, Park City, Utah, 2017.
27. Parker M, Han Z, Abu-Haydar E, Matsiko E, Iyakaremye D, Tuyisenge L, **Magaret A**, Lyambabaje A. Evaluation of hemoglobin measurement tools for child anemia screening in Rwanda. International Union of Nutritional Sciences, Buenos Aires, Argentina, 2017.
28. Boonyaratanakornkit J, Englund J, **Magaret A**, Bu Y, Tielsch J, Shrestha L, Khatry SK, LeClerq S, Kuypers J, Katz J, Steinhoff M, Chu H. Clinicalpresentation, risk factors, and cross-protection from repeated respiratory viral infections in infants in Nepal. ID Week, San Diego, CA, 2017.
29. Johnston C, Son H, **Magaret A**, Stern M, Gunby S, Ott M, Huang ML, Selke S, Jerome KR, Wald A, Koelle M. Mucosal Shedding and Cellular Immune Response After First Episode Genital Herpes Simplex Virus Type 1 Infection. ID Week, San Diego, CA, 2017.
30. Mazur NI, Horsely N, Bont LJ, Graham BS, de Haan CAM, Jacobino SR, Khatry SK, Kumar A, LeClerq S, Leusen J, **Magaret A**, Nederend M, Steinhoff MC, Tielsch JM, Katz J, Englund, JA, Chu HY. The role of breast milk respiratory syncytial virus prefusion F-protein IgA antibodies against RSV acute-respiratory illness in infants. RSV vaccines for the World, Malaga, Spain, 2017.
31. Newman K, Gustafson K, Englund JA, Katz J, **Magaret A**, Khatry S, Shrestha L, LeClerq SC, Tielsch J, Steinhoff MC, Chu HY. Effect of diarrheal illness during pregnancy on adverse birth outcomes in Nepal. ID Week, San Francisco, CA, 2018.
32. Yuh T, Selke S, Kiptiness C, Oluoch L, **Magaret A**, Ngure K, Wald A, Mugo NR, Roxby AC. Sexually transmitted infections among adolescent girls in Thika, Kenya. ID Week, San Francisco, CA, 2018.
33. Madeleine MM, Schouten JT, Karita HS, **Magaret A**, Xi LF, Galloway D, Grieco V, Mao C, Wald A. A profile of VIVA: A vaccine trial to interrupt vulvar and anal neoplasia. IANS, Montreal, CA, 2018.
34. Corey L, Johnston C, Posavad C, Vigneault F, Koelle D, Ford E, Wald A, **Magaret A**, Zhu J. Disparities in TCR repertoires between anatomic sites: implications for harnessing the tissue memory T-cell response to chronic viral infections. International Herpesvirus Workshop, VanCouver, CA, 2018.
35. Ford E, Li A, Dong L, Jing L, Liang K, Sun S, Huang ML, **Magaret A**, Johnston C, Koelle D, Zhu J, Corey L. Expansion of the tissue-based T-cell repertoire is distinct from the PBMC response after immunotherapeutic HSV-2 vaccine. International Herpesvirus Workshop, VanCouver, CA, 2018.
36. Karita HS, **Magaret A**, Xi LF, Galloway D, Grieco V, Mao C, Schouten JT, Madeleine MM, Wald A. VIVA trial: HPV vaccine to interrupt recurrences of vulvar and anal lesions. International Papillomavirus Conference, Sydney AUS, 2018.
37. Micheni M, Yuh T, Selke S, Oluoch L, Kiptinness C, **Magaret A**, Ngure K, Wald A, Mugo NR, Roxby AC. High STI and pregnancy rates among low risk adolescent populations in Thika, Kenya. National AIDS & STI Control Programme Mtg, Nairobi Kenya, 2018.
38. Low uptake of Pre-exposure prophylaxis among young women at risk of HIV in Thika, Kenya. Oluoch L, Roxby A, SelkeS, **MagaretA**, GakuoS, MicheniM, Chohan B, KiptinnessC, Wald A, NgureK, Mugo NR. Conference on Retroviruses and Opportunistic Infections, Seattle WA, 2018.
39. Incidence of HSV-2 and HIV in a cohort of Kenyan adolescent girls. Roxby A, **MagaretA**, SelkeS, MicheniM, Oluoch L, Yuh T, Chohan B, KiptinnessC, NgureK, Mugo NR, Wald A. Conference on Retroviruses and Opportunistic Infections, Seattle WA, 2018.
40. Natural history of genital and oral herpes simplex virus-1 (HSV-1) shedding after first episode genital HSV-1 infection. Johnston C, **Magaret A**, Wald A. International Society for Sexually Transmitted Diseases Research, Vancouver, BC, CA, 2019.
41. Quantitative oral HPV16 and HPV18 detection in patients attending dental clinics. Karita HS, **Magaret A**, Feng Q, Wald A. International Society for Sexually Transmitted Diseases Research, Vancouver, BC, CA, 2019.

### 17. OTHER

### Invited\* lectures and oral presentations

**Regional**

1. **\*Meier AS**. Issues in the timing of data collection for estimating treatment effects in randomized clinical trials. Seminar, Department of Biostatistics, UW, Seattle. May 2004.
2. **\*Meier AS**. HSV Research and issues in shedding observation intervals. Seminar, Department of Biostatistics, UW, Seattle. October 2004.
3. **\*Meier AS**. Three myths about statistics or how to alienate great blue herons. Program in Infectious Diseases / Division of Virology Annual Meeting, FHCRC / UW, Seattle. December 2004.
4. **\*Meier AS**. Accuracy of HSV DNA detection by PCR. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. February 2005.
5. **\*Meier AS**. Statistical sampler: the low-fat smorgasbord approach to equations. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. July 2005.
6. **\*Magaret AS**. Empirical versus parametric validation of discrete proportional hazards models. Program in Biostatistics seminar, Hutchinson Cancer Center, Seattle. September 2006.
7. **\*Magaret AS**. Evidence of host genetic differences in HSV disease severity. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. April 2007.
8. **Magaret AS**, Krantz E, Huang ML, Selke S, Corey L, Wald A. Risk of subject-level misclassification in studies of herpes simplex virus and the usefulness of the term "shedder". International Society for Sexually Transmitted Diseases Research, Seattle WA. July 2007.
9. **Magaret AS**. Is "shedder" a useful label in virus research? Crafting a message regarding the dichotomization of rates into "none" versus "some". SCHARP Statistical Sciences Brown Bag, FHCRC. March 2008.
10. **\*Magaret AS**. Beyond ROC Curves: Recent Statistical Advances in the Evaluation of Diagnostic and Prognostic Tests. Grand Rounds, Department of Laboratory Medicine, UW. March 2008.
11. **\*Magaret AS**. “How many ‘shedders’ does it take to show my intervention works?” OR Absurdly-phrased study design issues in HSV. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. April 2009.
12. **Magaret AS.** Accurate sample size for HSV2 shedding studies and PIP ancillary study: higher incidence of death in the HIV-infected partner. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. June 2010.
13. **\*Magaret AS**. Per-act infectivity of HSV-2, Vaccine and Infectious Diseases Division, FHCRC, Seattle. January 2012.
14. **\*Magaret AS**. Accurate estimation of the efficacy of condoms in preventing HSV acquisition, Research Conference, Department of Laboratory Medicine, Seattle. February 2012.
15. **\*Magaret AS**. Statistical methodology for assessment of viral shedding and associated study design considerations. Biostatistics faculty seminar, FHCRC, Seattle. October 2012.
16. **\*Magaret AS**. Statistical methodology for assessment of viral shedding and associated study design considerations. Department of Biostatistics seminar, UW, Seattle. October 2012.
17. **\*Magaret AS**. Using validation subsets to alleviate bias in proportional hazards models when outcomes are mismeasured. Clinical trials affinity group seminar, FHCRC, Seattle. October 2012.
18. **Magaret AS**. A Bayesian randomized clinical trial for treatment of sepsis. Clinical trials affinity group seminar, FHCRC, Seattle. November, 2013.
19. **Magaret AS**. Multi-arm trials using adaptive design: increased efficiency without induced bias. Grand Rounds, Department of Laboratory Medicine, UW. March 2014.
20. **\*Magaret AS**. Love is an Open Sore: But HSV shedding may be a better outcome than lesions for evaluating herpes treatments. Vaccine and Infectious Diseases Division Seminar, FHCRC, Seattle. October 2015.
21. **\*Magaret AS**. Detecting viral superinfection with limited samples, or how Dempster, Laird, & Rubin can slash your sequencing costs. Vaccine and Infectious Diseases Division Seminar, FHCRC, Seattle. September 2017.

**National**

1. **Meier AS**, Richardson, BA. Discrete proportional hazards model for uncertain outcomes. Presented at the Western North American Region Biometric Society Meeting, Burnaby, British Columbia. June 2001.
2. **Meier AS**. Incorporating outcome validation subsets and discrete proportional hazards models. Presented at the Eastern North American Region Biometric Society Meeting, Tampa, FL. March 2003.
3. **Magaret AS**, Stanaway J. Sample size for repeated-measures autocorrelated binomial distribution. Western North American Region of the International Biometric Society, Portland OR. June 2009.
4. **Magaret AS**. Misspecification of parameters in repeated-measures autocorrelated beta-binomial distribution: application to design of viral shedding studies. Western North American Region of the International Biometric Society, Seattle. June 2010.

**International**

1. **\*Meier AS**. Enrollment characteristics. Partners in Prevention Study Annual Investigator's Meeting. Cape Town, South Africa. January 2006.
2. **\*Magaret AS**. Analysis of primary outcome and relevant data considerations. Partners in Prevention Study Annual Investigator's Meeting. Arusha, Tanzania. March 2007.