

Weiwei Zhu

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EDUCATION:

Jan. 2006 – Dec. 2007 **Master of Statistics**
Texas A&M University, College Station, Texas, USA

EXPERIENCE:

- Oct. 2009 – present **Biostatistician II** *Group Health Research Institute*
Provide statistical support in various grants and projects, include
- Perform data management, conduct statistical analyses, write the statistical analysis plans and participate in the study design.
 - Summarize methods and results of analyses in written reports or for peer-reviewed scientific publications
- Feb.2008 – Oct. 2009 **Biostatistician** *Moffitt Cancer Center and Research Institute*
Provided statistical support in 15+ studies in various areas involving ovarian cancer, bone marrow transplant study, head and neck cancer, colon cancer, cutaneous oncology, radiation oncology, hematology, health outcome behavior, and etc

COMPUTER SKILL:

Statistical Software: SAS, R

Databases: MySQL, Excel, SQL Server

PEER REVIEWED PUBLICATIONS:

- [1]. Miglioretti, D., **Zhu, W.**, Kerlikowske, K., Sprague BL, Onega, T., Buist, D., Henderson, L., Smith, RA., Breast Tumor Prognostic Characteristics and Biennial vs Annual Mammography, Age, and Menopausal Status. *JAMA Oncol. Published online October 20, 2015. doi:10.1001/jamaoncol.2015.3084*
- [2]. Kerlikowske K., **Zhu W.**, Tosteston A.N.A., Sprague BL, Tice JA, Lehman CD, Miglioretti DL. Identifying Women with Dense Breasts at High Risk of Interval Cancers. *Ann Intern Med. 2015;162(10):673-681. doi:10.7326/M14-1465*
- [3]. Henderson, L., Hubbard, R., Sprague, B., Zhu, W., Kerlikowske, K., Increased risk of developing breast cancer after a false positive screening mammogram. *Accepted CANCER EPIDEMIOLOGY, BIOMARKERS & PREVENTION*
- [4]. Hubbard, R., **Zhu, W.**, Balch, S., Onega, T., Fenton, J., Identification of abnormal screening mammogram interpretation using Medicare claims data. *Health Serv Res. 2014 Jun 28. doi: 10.1111/1475-6773.12194. [Epub ahead of print]*

- [5]. Hubbard, R., Benjamin-Johnson, R., Onega, T., Smith-Bindman, R., **Zhu W.**, Fenton JJ. Classification accuracy of claims based methods for identifying providers failing to meet performance targets. *Stat Med.* 2014 Oct 10. doi: 10.1002/sim.6318. [Epub ahead of print].
- [6]. Fenton, J., **Zhu, W.**, Balch, S., Smith-Bindman, R., Lindfors, K., Fishman, P., Hubbard, R., Distinguishing Screening from Diagnostic Mammograms using Medicare Claims Data. *Medical Care*, 2012 Aug 23. [Epub ahead of print]
- [7]. O'Meara, E., **Zhu, W.**, Hubbard, R., Kerlikowske, K., Braithwaite, d., Dittus, K., Geller, B., Weaver, D., Wernli, K., Miglioretti, DL. Mammographic screening interval in relation to tumor characteristics and false-positive risk by race/ethnicity and age. *Cancer*, 2013 Aug 26. doi: 10.1002/cncr.28310. [Epub ahead of print]
- [8]. Dittus, K., Geller, B., Weaver, D., Kerlikowske, K., **Zhu, W.**, Hubbard, R., Braithwaite, D., O'Meara, E., Miglioretti, D., Impact of Mammography Screening Interval on Breast Cancer Characteristics of Women with Different Body Mass Index. *Journal of general Intern Med.* 2013 Jun 13. [Epub ahead of print]
- [9]. Fenton JJ, Onega T, **Zhu W**, Balch S, Smith-Bindman R, Henderson L, Sprague BL, Kerlikowske K, Hubbard RA.; Validation of a Medicare claims-based algorithm for identifying breast cancers detected at screening mammography.; *Med Care.* 2013 Aug 6 [Epub ahead of print].
- [10]. Kerlikowske, K., **Zhu, W.**, Hubbard, R., Geller, B., Dittus, K., Braithwaite, D., Wernli, K., Miglioretti, DL, O'Meara, E., Benefits and Harms of Screening Mammography Frequency by Age, Breast Density, Postmenopausal Hormone Therapy. 2013 May 13;173(9):807-16. doi: 10.1001/jamainternmed.2013.307.
- [11]. Hubbard, R., **Zhu, W.**, Horbyluk, R., Karliner, L., Sprague, B., Henderson, L., Lee, D., Onega, T., Buist, D., Sweet, A., Diagnostic imaging and biopsy pathways following abnormal screen-film and digital screening mammography. *Breast Cancer Res Treat.* 2013 Apr;138(3):879-87. doi: 10.1007/s10549-013-2466-5. Epub 2013 Mar 8
- [12]. Braithwaite, D., **Zhu, W.**, Hubbard, R., O'Meara, E., Miglioretti, D., Geller, B., Dittus, K., Moore, Dan., Wernli, K., Mandelblatt, J., Kerlikowske, K., Screening outcomes in older U.S. women undergoing multiple mammograms in community practice: does interval, age or comorbidity score affect tumor characteristics or false positive rates? 2013 Mar 6;105(5):334-41. doi: 10.1093/jnci/djs645. Epub 2013 Feb 5.
- [13]. Henderson, L., Onega, T., Hubbard, R., **Zhu, W.**, Tosteson, A, Buist, D., Fishman, P., Assessing health care use and cost consequences of a new screening modality: the case of digital mammography. *Medical Care.* 2012 Dec;50(12).
- [14]. Hubbard, R., **Zhu, W.**, Onega, T., Fishman, P., Henderson, L., Tosteson, A., Buist, D., Effects of digital mammography uptake on downstream breast-related care among older women. *Medical Care.* 2012 Dec;50(12):1053-9.
- [15]. Cook, A., Elmore, J., **Zhu, W.**, Jackson, S., Carney, P., Flowers, C., Onega, T., Geller, B., Rosenberg, R., Miglioretti, DL, Mammographic interpretation: radiologists' ability to

- accurately estimate their performance and compare it with that of their peers. *AMERICAN JOURNAL OF ROENTGENOLOGY*. 2012 Sep;199(3):695-702.
- [16]. Yasmeen, S., Hubbard, R., Romano, P., **Zhu, W.**, Geller, B., Onega, T., Yankaskas, B., Miglioretti, DL, Kerlikowske, K., Risk of Advanced Stage Breast Cancer Among Older Women with Comorbidities. *Cancer Epidemiology, Biomarkers & Prevention*. 2012 Sep;21(9):1510-9. Epub 2012 Jun 28
- [17]. Fenton, J., **Zhu, W.**, Balch, S., Smith-Bindman, R., Lindfors, K., Fishman, P., Hubbard, R., External Validation of Medicare Claims for Digital Mammography and Computer-Aided Detection. *Cancer Epidemiology, Biomarkers & Prevention*. 2012 Aug;21(8):1344-7. Epub 2012 Jun 13
- [18]. Mahajan K, Coppola D, Chen YA, **Zhu W.**, Lawrence HR, Lawrence NJ, Mahajan NP. Ack1 tyrosine kinase activation correlates with pancreatic cancer progression. *Am J Pathol*. 2012 Apr;180(4):1386-1393.
- [19]. Shan, L., Chen, YA., Davis, L., Han, G., **Zhu, W.**, Molina, A., Arango, H., LaPolla, J., Hoffman, M., Sellers, T., Kirby, T., Nicosia, S., Sutphen, R., Measurement of Phospholipids Improves Diagnostic Accuracy in Ovarian Cancer. *PLoS ONE*. 2012;7(10):e46846. doi: 10.1371/journal.pone.0046846. Epub 2012 Oct 17
- [20]. Hubbard, R., Kerlikowske, K., Flower, C., Yankaskas, B., **Zhu, W.**, Miglioretti, DL, Cumulative risk of false-positive recall or biopsy recommendation after 10 years of screening mammography. *Ann Intern Med*. 2011;155(8):481-92.
- [21]. Bello, C.M., Yu, D., Komrokji R.S., **Zhu, W.**, Wetzstein, G.A., List A.F. and Lancet, J.E., Outcomes after induction chemotherapy in patients with acute myeloid leukemia arising from myelodysplastic syndrome. *Cancer*. 2011 Apr 1;117(7):1463-9.. Epub 2010 Nov 8
- [22]. Kharfan-Dabaja, MA, Chavez, JC, Yu, D., **Zhu, W.**, Fernandez-Vertiz, EI, Perkins, J., Shapiro, J., Bookout, R., Perez, L., Fernandez, HF, Komrokji, RS, Lancetf, J., Brand, L., Field, T., Ayala, E., Janssen, W., List, AF, Anasetti, C.. Severe hypoalbuminemia at day 90 predicts worse non-relapse mortality and overall survival after allogeneic hematopoietic stem cell transplantation for acute myeloid leukemia and myelodysplastic syndrome. *Biol Blood Marrow Transplant*. 2010 Jul
- [23]. Mahajan, K., Challa, S., Coppola, D., Lawtence, H., Luo, Y., Gevariya, H., **Zhu, W.**, Chen, Y., Lawtence, N., Mahajan, N., Effect of Ack1 Tyrosine Kinase Inhibitor on Ligand-Independent Androgen Receptor Activity. *Prostate*. 2010 Sep;70(12):1274-1285.
- [24]. Hunter, S., Love, K., Abdulla, R., **Zhu, W.**, Lee, J., Wells, K., Roetzheim, R., Sun Protection at Elementary Schools, A Cluster Randomized Trial. *JNCI Journal of the National Cancer Institute* 2010 102(7):484-492;
- [25]. Mahajan, K., Coppola, D., Challa, S., Fang, B., Chen, YA, **Zhu, W.**, Lopez, AS, Koomen, J., Engelman, RW., Rivera, C., Muraoka-Cook, RS, Cheng, JQ, Schnbrunn, E., Sebti, SM, Earp, HS, Mahajan, NP. Ack1 Mediated AKT/PKB Tyrosine 176 Phosphorylation Regulates Its Activation. *PLoS One*. 2010;5(3):e9646. Pmcid: PMC2841635

- [26]. Wang, W., Lau, R., Yu, D., Zhu, W., Korman, A., Weber, J., PD1 Blockade Reverses the Suppression of Melanoma Antigen-Specific CTL by CD4+CD25Hi Regulatory T cells. *International Immunology*, Vol 21, No.9, pp.1065-1077
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- [28]. Tanvetyanon, T., Qin, D., Padhya, T., McCaffrey, J., Zhu, W., Boulware, D., DeConti, R., Trotti, A., Outcomes of post-operative concurrent chemoradiotherapy for locally advanced major salivary gland carcinoma. *Archive of Otolaryngology and Head & Neck Surgery*, 2009 Jul. 135(7): 687-92
- [29]. Tanvetyanon, T., Padhya, T., McCaffrey, J., Zhu, W., Boulware, D., DeConti, R., Trotti, A., Prognostic factors for survival after salvage re-irradiation of head and neck cancer. *Journal of Clinical Oncology*, Vol 27, No 12, 2009

MANUSCRIPTS UNDER REVIEW:

- [1]. Chubak, J., Onega, T., Zhu, W., buist, D., Hubbard, R., Claims-based algorithm to ascertain the date of second breast cancer events, *Medical Care*
- [2]. Fishman, P., Hubbard, R., Zhu, W., Onega, T., Henderson, L., Tosteson, A., Buist, D.. Epidemiologic and Economic Consequences of Miscoded Mammograms in Medicare Claims, *Medical Care*

CONFERENCE ABSTRACT:

- [1]. Potthast, L., Chowdhary, S., Pan, E., Yu, D., Zhu, W., and Brem, S. The infiltrative, diffuse pattern of recurrence in patients with malignant gliomas treated with bevacizumab. The ASCO Annual Meeting, the American Society of Clinical Oncology, Orlando, FL, May 29-June 2, 2009.
- [2]. Bello, C.M., Yu, D., Zhu, W., Wetzstein, G.A., and Lancet, J.E. Outcomes following induction chemotherapy in patients with AML arising from MDS: analysis of prognostic factors. The ASCO Annual Meeting, the American Society of Clinical Oncology, Orlando, FL, May 29-June 2, 2009.
- [3]. Sarnaik, A.A, Yellin, M., Yu, D., Zhu, W., Weber, J.S. Th17 inducibility predicts freedom from relapse after CTLA-4 blockade for the treatment of metastatic melanoma. The AACR 100th Annual Meeting, the American Association for Cancer Research, Denver, CO, April 18–22, 2009
- [4]. Gwede, C.K., Thomas, K.B., Tarver, W.L., Quinn, G.P., Yu, D., Zhu, W., Jacobsen, P.B., Dessureault, S., Shibate, D., Healthcare provider discussion of familial risk with colorectal

cancer patients. The 33rd Annual Meeting, American Society of Preventive Oncology, Tampa, FL, March 8–10,2009

- [5]. Möller M.G., Nair, R.A., Hodul, P.J., Strosberg, J.R., Yu, D., Zhu, W., Wu, J., Hernandez, J., Kvolts, L., Malafa, M., Coppola, D., Nasir, A., Clinical relevance of insulin-like growth factor 1 receptor expression scores in neuroendocrine tumors. The 62nd Annual Cancer Symposium, society of Surgical Oncology, Phoenix, AZ, March 5–8, 2009
- [6]. Kharfan-Dabaja, M.A., Chavez, J.C., Fernandez-Vertiz, E.I., Yu, D., Zhu, W., Perkins, J., Fiels, T., Ayala, E., Fernandez, H.F., Alsina, M., Perez, L., Raychaudhuri, J., Ochoa-Bayona, J.L., Brand, L., Sullivan, D., Anasetti, C., Hypoalbuminemia (<3.0 g/dl) and poor Karnofsky performance (KPS <80) at day 90 are independent predictors of worse non-relapse survival (NRS) and overall survival (OS) in adult allogeneic hematopoietic cell transplantation (allo-HCT) recipients: results of a multivariable analysis. The 2009 BMT Tandem Meetings, American Society for Blood and Marrow Transplantation, Tampa, FL, February 11-15, 2009
- [7]. Thomas, K.B., Gwede, C.K., Tarver, W., Quinn, G.P., Yu, D., Zhu, W., Jacobsen, P.B., Dessureault, S., Shibata, D., Exploring motivations for disclosure of a colorectal cancer diagnosis to first-degree relatives (FDR) and cancer survivors' perceptions of familial risk to FDRs. The 6th Annual Conference, American Psychosocial Oncology Society, Charlotte, NC, February 5–8, 2009
- [8]. Kharfan-Dabaja, M.A., Chavez, J.C, Fernandez-Vertiz, E.I., Yu, D., Zhu, W., Perkins, J., Fiels, T., Ayala, E., Fernandez, H.F., Alsina, M., Perez, L., Raychaudhuri, J., Ochoa-Bayona, J.L., Brand, L., Sullivan, D., Anasetti, C., Hypoalbuminemia and poor Karnofsky performance score at day 90 following allogeneic hematopoietic stem cell transplantation (allo-HCT) are independent predictors of worse non-relapse survival (NRS) and overall survival (OS): a multivariable analysis approach of various clinical laboratory and pharmacologic parameters. The 50th Annual Meeting, American Society of Hematology, San Francisco, CA, December 6-9, 2008
- [9]. Rackoff, A., Kucera, S., Yu, D., Zhu, W., Barthel, J., How much additional procedure time is required to obtain multiple mucosal surveillance biopsies in patients with Barrett's esophagus? The Annual Scientific Meeting and Postgraduate Course, American College of Gastroenterology, Orlando, FL, October 3-8, 2008
- [10]. Girona,V., Trotti, A., Stevens, C., Zhu,W., Harris, E., Year-End Evaluation of Radiation Oncology Physicians (YEEROP). American Society for Radiation Oncology 2009 Annual Meeting, Chicago ,IL, November 1-5, 2009

AWARD: Group Health Research Institute: Extraordinary Achievement Award (2011)

RESEARCH ACTIVITY: Member of American Statistical Association