



Yogyakarta, 16 Maret 2020

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Hal : **Himbauan**
Sifat : **Segera**
Lamp. : *List Penerima Grant Visiting Fellow & Sabbatical Leave*

Kepada Yth.
Bapak/Ibu Penerima Grant
Program *Visiting Fellow & Sabbatical Leave* Batch II 2019/2020
Universitas Muhammadiyah Yogyakarta
di tempat

Bismillahirrahmanirrahim

السَّلَامُ عَلَيْكُمْ وَرَحْمَةُ اللَّهِ وَبَرَكَاتُهُ

Teriring salam dan do'a kami haturkan, semoga Bapak/Ibu senantiasa mendapatkan limpahan rahmat dari Allah SWT, khususnya dalam menjalankan aktifitas sehari-hari. Aamiin

Sehubungan dengan semakin meningkatnya persebaran wabah Covid-19 di Indonesia serta untuk mencegah wabah tersebut di lingkungan Universitas Muhammadiyah Yogyakarta, maka bersama dengan surat ini kami menghimbau kepada Bapak/Ibu Grantee Program *Visiting Fellow & Sabbatical Leave* Batch II 2019/2020 untuk **menunda pelaksanaan program khususnya yang berupa kunjungan ke dalam dan ke luar negeri**. Namun demikian, pelaksanaan kerja sama tetap dapat dilaksanakan melalui sistem daring (*online*).

Demikian surat ini kami sampaikan, atas perhatian dan kerjasamanya, diucapkan terimakasih.

وَالسَّلَامُ عَلَيْكُمْ وَرَحْمَةُ اللَّهِ وَبَرَكَاتُهُ

Wakil Rektor
Bidang Kerja Sama dan Urusan Internasional



Prof. Dr. Achmad Nurmandi, M.Sc *[Signature]*

ADDRESS

Kampus UMY
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Kasihan • Bantul • Yogyakarta 55183

CONTACT

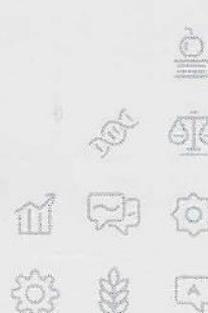
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ACCREDITATION



ACHIEVEMENT





UMY

UNIVERSITAS
MUHAMMADIYAH
YOGYAKARTA

Terakreditasi A, No : 5237/SK/BAN-PT/Akred/PT/XII/2017

Unggul & Islami

Daftar Penerima Grant Visiting Fellow dan Sabbatical Leave 2020

| Visiting Fellow Batch II 2020 | | |
|---------------------------------|-----------------------------------|---|
| 1 | MT Ghozali | Program Studi Farmasi, Fakultas Kedokteran dan Ilmu Kesehatan |
| 2 | Pinasti Utami | Program Studi Farmasi, Fakultas Kedokteran dan Ilmu Kesehatan |
| 3 | Ahmad Zaki | Program Studi Teknik Sipil, Fakultas Teknik |
| 4 | Jazaul Ikhsan | Program Studi Teknik Sipil, Fakultas Teknik |
| 5 | Ika Nurul Qamari | Program Studi Doktor Manajemen |
| 6 | dr. Supriyatiningih | Pendidikan Dokter, Fakultas kedokteran Ilmu Kesehatan |
| 7 | Zuhud Rozaki | Program Studi Agribisnis, Fakultas Pertanian |
| Sabbatical Leave 2020 | | |
| 1 | Firman Mansir | Pendidikan Agama Islam |
| Foreign Staff Exchange-UMY 2020 | | |
| 1 | Mohamed Asmy Bin Mohd Thas Thaker | Economics/ International Islamic University Malaysia |
| 2 | Rudi Alberts | University of Groningen |
| 3 | Anwar Allah Pitchay | School of Management, Universiti Sains Malaysia |

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ACCREDITATION



ACHIEVEMENT



**PROJECT PROPOSAL OF RESEARCH COLLABORATION
BETWEEN AUBURN UNIVERSITY
AND UNIVERSITAS MUHAMMADIYAH YOGYAKARTA**

1. Project Proposal Title

Design, Development, and Implementation of Asthma Independent Quality Control Device Based on Smartphone for Asthmatic in Indonesia.

2. Project Team

Following is project team member (table 1):

Table 1. Project Team Member

| No | Name | Institution | NIDN |
|----|--------------------------------|-------------------------------------|------------|
| 1. | M. Thesa Ghozali, M.Sc., Apt. | Universitas Muhammadiyah Yogyakarta | 0508048401 |
| 2. | Ingenida Hadning, M.Sc., Apt. | Universitas Muhammadiyah Yogyakarta | 0504038501 |
| 3. | Salmah Orbayinah, M.Kes., Apt. | Universitas Muhammadiyah Yogyakarta | 0529026801 |
| 4. | Pinasti Utami, M.Sc., Apt. | Universitas Muhammadiyah Yogyakarta | 0518038501 |
| 5. | Edward Chou, Ph.D. | Auburn University, Alabama, USA | - |

3. Project Objective

- a. Provide training to lecturers of the Faculty of Medicine and Health Sciences, Muhammadiyah Yogyakarta University on clinical and community research.
- b. Give guest lectures to students in the Master of Hospital Administration Management and Pharmacy Study Program on Health Technology Assessment.
- c. Consultation on collaborative research proposals between Edward Chou, Ph.D. and the FKIK UMY Pharmacy Study Program team related to the design, development and implementation of asthma independent quality control device based on smartphone for asthmatic in Indonesia, research implementation until publication in reputable international journals.
- d. See the possibilities of a Memorandum of Understanding (MoU) in the fields of education, research, and service.

4. Project Description

Edward Chou, Ph.D. is a research consultant in the fields of social administration and biostatistics. He is also an adjunct associate research fellow in the field of big data. The UMY Pharmacy Study Team is currently focusing on research in the 4.0 clinical field, namely the development of an independent asthma control measurement tool. Edward Chou will provide training on clinical and community research methods, and provide lectures related to the development of the Health Technology Assessment topic.

Dr. Chou's expertise in the world of pharmacy has become the basis of the interest of the UMY Pharmacy team to conduct collaborative research together and invite him to conduct a guest lecture at UMY with the target of lecturers and students of FKIK UMY. Following is a description of the planned project (table 2):

Table 2. Project Description

| No | Name of Activity | Project Description |
|----|---|---|
| 1 | Training on clinical research methods | The UMY Pharmacy Study Team and Edward Chou will provide training on research methods in the clinical and community fields. This activity will be held on June 18 th , 2020 at 1:00PM - 5:00PM in the FKY UMY Meeting Room. |
| 2 | General lecture on Health Technology Assessment | Edward Chou is an expert in the field of Health Technology Assessment. He is planned to fill lectures related to the field to MARS students and Pharmacy Study Program who are taking block 18 th : research methodology. This activity will be held on June 19 th , 2020 at 1.00PM - 3.00PM at the MARS Postgraduate Study Room and Pharmacy Study Program FKIK UMY. |
| 3 | Paper Consultation | On the sidelines of Edward Chou's activities, there are several agendas related to consultation papers which will be published in reputable international journals. Some points have been consulted via email. |
| 4 | Research collaboration with UMY Pharmacy Study Program Team | Professional consultation and assessment of the independent asthma control device that will be made based on smart phones, and the research is carried out before June, and after that will be published. |
| 5 | MoU from the fields of education, research and service. | Through this activity it is hoped that an MoU can be made between the AU and UMY in the implementation of the Tri Darma of University. |

Based on the project description above, the UMY Pharmacy Team has made communication regarding his scheduling in Yogyakarta and has been agreed as follows (Table 3):

Table 3. Dr. Chou's itinerary in Yogyakarta

| Time | June 16 th , 2020 | June 17 th , 2020 | June 18 th , 2020 | June 19 th , 2020 | June 20 th , 2020 |
|---------------------|------------------------------|---|---------------------------------------|--|--------------------------------|
| 8.00AM-9.00AM | Dr Chou's trip to Yogyakarta | Welcome greeting, planning schedule activities for research and outcome | Manuscript preparation and evaluation | Lecture to students: Health Technology Assessment. | Dr Chou's trip back to Alabama |
| 9.00 AM - 10.00 AM | | | | | |
| 10.00 AM - 11.00AM | | Welcome ceremony by Faculty and International Office | Lunch | | |
| 11.00 AM - 12.00 PM | | | | | |
| 12.00 PM-1.00 PM | | | | | |

| | | | | |
|---------------------|--|---|---|--|
| 1.00 PM- 2.00 PM | | Training to lecturers: Clinical and Community Pharmacy Research. | Manuscript preparation and evaluation | Manuscript preparation and evaluation |
| 2.00 PM- 4.00 PM | | | | |

In this activity the overall schedule of proposals to outcomes achieved is shown in table 4:

Table 4. Time Schedule

| Major Activity | Time Duration | *Tentative Months |
|---|----------------------|-------------------------------|
| Submission of activity proposals to UMY | 1 month | February, 2020 |
| Consultation on research proposals | 1 month | March, 2020 |
| Data collection | 2 months | April-May, 2020 |
| Data Analysis and Manuscript Writing | 1 months | June, 2020 |
| Revising& Final Editing | 3 months | July- September, 2020 |
| Journal Submission | 1 month | October, 2020 |
| Journal Publish | 3-4 months | November 2020 – February 2021 |
| Total: 9-12 months | | |

Research Proposal Draft

Asthma is a chronic respiratory disease that causes airway obstruction with the main symptoms of wheezing. This disease is still a public health problem throughout the world, especially in developing countries. Asthma itself often appears in childhood and young age so that it gives a negative impact on the lives of patients. Many factors cause asthma, one of which is obesity. Obesity starts asthma, increases the prevalence and degree of asthma, and has a significant relationship with asthma control. To control asthma, a simple and practical tool that can be used in daily practice and one of them is the Asthma Control Test (ACT). For children aged 4-11 years, ACT contains four questions that can be filled by children and three questions that are filled out by parents if a score of > 20 is declared to be controlled asthma. For ages > 12 there are five questions that are filled out by children. A score of 25 means total control of asthma, whereas a score of 20-24 is stated on target which means that asthma is well controlled but has not yet reached total control. If score < 20 shows off target which means asthma is not controlled. After asthma is controlled, regular surveillance is still needed.

The purpose of this research is to design, develop, and asthma independent quality control device based on smartphone for asthmatic in Indonesia. The background of this research is that ACT independent smart asthma control devices are not available at all in Indonesia.

This study uses a User-Centered Design (UCD) approach. User centered design (UCD) is a design process that focuses on user needs. Products developed using the UCD approach are optimized for end-users and emphasize how the end-user needs or desires of

using a product.

This research will contribute to the achievement of the research master plan of the University of Muhammadiyah Yogyakarta. The expected outcomes in this research are the outcomings in the Scopus Q3 journal and oral presenters at international seminars.

Following is the overall schedule from proposal to outcome achieved:

5. Project Location

The research location will be located in the Biomedical Lab, Faculty of Medicine and Health Sciences. Feedback from health professionals will be done by Edward Chou, fellow doctors, pharmacists, and nurses, as professional reviewers, while asthma patients will be asked for feedback from the user side. The study of ACT smartphone-based user testing will be conducted at the University of Muhammadiyah Yogyakarta. To find out the results of your asthma control then add up the number of each answer to the question that has been chosen according to the control you normally do. If a score of <20 indicates your asthma is not controlled. If a score of 20-24 means that your asthma control level is good and if a score of 25 means your asthma is controlled.

Accommodation and transportation will be managed by the two partners. The UMY Pharmacy Study Program team will take care of licensing, ethical clearance and research data that have been communicated and get positive responses while for Edward Chou having open access journals that can add references to the publications obtained.

6. Supervisor Qualification

With Dr. Chou's credibility both in the world of research and publications, it will add more points to publications and will be easier to enter in scopus indexed journals. We attach Dr Chou's Curriculum Vitae (Appendix 1).

7. Sources and Amount of Funds

Funding for this program is planned to be obtained from 2 main sources, namely:

- a. Funding from the AU includes transportation costs from Alabama, US to Denpasar as well as an honorarium in providing training to FKY UMY lecturers and students.
- b. Funding from UMY (with the Collaboration Research scheme) which will primarily accommodate research processes and meetings and other academic activities held in Indonesia (UMY).

We attach the Budget and Spending Collaborative Research Activity Expenditure (Appendix 2).

8. Expected results

a. Publication

The main expected publication from this program would be journal publications from the research result (Scopus indexed min Q3).

b. Initiation of MoU and MoA for both institutions

In this activity, actually has an MOU between institutions, so the goal in this case is the implementation of the MOU so that its benefits are wider

c. Continuous Collaboration

Based on the MoU or MoA, we hope that there will be sustainability collaboration between 2 institutions in broader matters such as student / lecturer / staff exchange, doctoral programs, joint research, joint publications, etc.

9. Information Dissemination

Based on the results of this program, dissemination will be carried out in several ways,

for example:

- a. Journal publications.
- b. Oral and poster conferences.
- c. Academic seminars and meetings for both institutions.

APPENDIX 1



HARRISON SCHOOL OF PHARMACY
DEPARTMENT OF HEALTH OUTCOMES RESEARCH AND POLICY

February 9, 2020

RE: Letter of Support

Dear Grant Committee of Research Collaboration for Internationalization Programs,

I am delighted to write this letter to support M.T. Ghozali, M.Sc., Apt's grant application. I am Associate Professor in the Department of Health Outcomes Research and Policy at Auburn University Harrison School of Pharmacy in the United States. I have more than ten-year experience in conducting health services and outcomes research as a faculty member and health services researcher in academic pharmacy.

When I was visiting China Medical University (CMU) College of Pharmacy (COP) in Taiwan in December 2019 as a U.S. Fulbright Specialist, I met Mr. Indra Putra Taufani who came from Pharmacy Department Universitas Muhammadiyah Yogyakarta (UMY), Indonesia to CMU COP to pursue his PhD training. Through his introduction and CMU COP Associate Dean Dr. Hsiang-Wen Lin's help, I started initial discussions for potential research collaborations with M.T. Ghozali, M.Sc., Apt. who is a lecturer and promising junior researcher from Indra's pharmacy department at UMY. My understanding is that M.T. and his colleagues are working on an important research project, titled "*Design and Development of OS Google Android-Based Asthma Control Test for Indonesian Asthmatics: User Centered Design Approach*," that has great potential to make significant contributions to the health care systems of Indonesia. Along with the colleagues at CMU COP, I would be happy to engage in further discussion and to explore the feasibility of building a long-term and productive collaboration with M.T. The grant that M.T. is applying will help facilitate our in-person meeting and discussion.

It is with hopes that our future meeting and discussion made possible by your generous support will allow my colleagues at CMU COP and myself to better understand the scope of the research project that M.T. and his colleagues are conducting. That will also help us to understand how our expertise aligns with the project needs. If a research collaboration could be built with mutual interest in the future, we hope that the collaboration could benefit M.T. and his research team to conduct rigorous research projects successfully, publish research findings in peer-reviewed journals, and have positive impact on health care systems and population health of Indonesia in a long run. If you need additional information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'C. Edward Chou'.

C. Edward Chou, Ph.D.
Associate Professor
Health Outcomes Research and Policy
Harrison School of Pharmacy
Auburn University, AL 36849
United States of America

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APPENDIX 2

CURRICULUM VITAE

Edward Chou, Ph.D.

Department of Health Outcomes Research and Policy
Auburn University Harrison School of Pharmacy
4306E Walker Building
Auburn University, AL 36849
Office: (334) 844-8304
Email: czc0109@auburn.edu

ACADEMIC APPOINTMENTS

- 2019- Research consultant, Department of Medical Research, China Medical University, Taichung, Taiwan
- 2019- Adjunct Associate Research Fellow, China Medical University Hospital Big Data Center, Taichung, Taiwan
- 2016- Associate Professor, Harrison School of Pharmacy, Auburn University, Auburn, AL
- 2014-2016 U.S. Department of Veterans Affairs WOC affiliate, Center for the Management of Complex Chronic Care, Edward Hines, Jr. VA Hospital, Hines, IL
- 2013-2016 Research Associate (Assistant Professor), Section of General Internal Medicine, Department of Medicine, The University of Chicago, Chicago, IL
- 2011-2012 Faculty Associate, Center for Health Policy and Healthcare Research, Northeastern University, Boston, MA
- 2011-2012 U.S. Department of Veterans Affairs WOC affiliate, Center for Organization, Leadership and Management Research, a VA Health Services Research and Development center of excellence, Boston VA Medical Center, Boston, MA
- 2008-2012 Assistant Professor, School of Pharmacy, Northeastern University, Boston, MA
- 2008 Lecturer, School of Pharmacy, Northeastern University, Boston, MA
- 2006-2008 Health Economics and Outcomes Research Postdoctoral Fellow, Center for Clinical and Genetic Economics, Duke Clinical Research Institute, Durham, NC

ADMINISTRATIVE APPOINTMENT

- 2013-2016 Associate Director of Health Services Research, Center for Translational and Policy Research of Chronic Diseases, Section of General Internal Medicine, Department of Medicine, The University of Chicago, Chicago, IL

ACADEMIC TRAINING

- 2006 Ph.D., Social & Administrative Sciences (major), Population Health & Policy Analysis (minor). University of Wisconsin, Madison, WI
- 2001 M.S., Biostatistics. University of Michigan, Ann Arbor, MI
- 1996 M.S., Pharmaceutical Sciences. National Taiwan University, Taipei, Taiwan
- 1994 B.S., Pharmacy. National Taiwan University, Taipei, Taiwan

POSTDOCTORAL TRAINING

- 2012 Certificate, Measurement, Design, and Analysis Methods for Health Outcomes Research. Harvard School of Public Health Executive and Continuing Professional Education, Boston, MA
- 2008 Postdoctoral Fellowship, Health Economics and Outcomes Research. Duke Clinical Research Institute, Duke University Medical Center, Durham, NC

RESEARCH

(* denotes a student or trainee coauthor, ** denotes co-first authors that made equal contributions and shared equal responsibilities, *** denotes corresponding author, and # denotes senior author who oversaw the project).

Peer-reviewed publications in the primary literature, exclusive of abstracts:

1. Hohmann NS*, Crosby C*, Mason SW*, Cheung WY, Williams MS, Salvador C, Graves EK, Camp CN*, **Chou C*****. Healthcare providers' perspectives on care coordination for adults with cancer and multiple chronic conditions: a systematic review. *Journal of Pharmaceutical Health Services Research*. 2019. (Accepted)
2. Hohmann NS*, Crosby C*, Mason SW*, Cheung WY, Williams MS, Salvador C, Graves EK, Camp CN*, **Chou C*****. Patient perspectives on primary care and oncology care coordination in the context of multiple chronic conditions: a systematic review. *Research in Social and Administrative Pharmacy*. 2019 Nov 26. doi: 10.1016/j.sapharm.2019.11.014. [Epub ahead of print]
3. Tung EL, Abramssohn E, Boyd K, Makelarski JA, Beiser DG, **Chou C**, Huang ES, Ozik J, Kalogotla C, Lindau ST. Impact of a low-intensity resource referral intervention on patients' knowledge, beliefs, and use of community resources: results from the CommunityRx Trial. *Journal of General Internal Medicine*. 2019 Nov 20. doi: 10.1007/s11606-019-05530-5. [Epub ahead of print]
4. **Chou C**, Hohmann NS*, Hastings TJ*, Li C*, Crosby C*, Maciejewski ML, Farley JF, Domino ME, Hansen RA. How comfortable are primary care physicians and oncologists prescribing medications for comorbidities in patients with cancer? *Research in Social and Administrative Pharmacy*. 2019 Nov 9. pii: S1551-7411(19)30856-3. doi: 10.1016/j.sapharm.2019.11.006. [Epub ahead of print]
5. Lindau ST, Makelarski JA, Abramssohn E, Beiser DG, Boyd K, **Chou C**, Giurcanu M, Huang ES, Liao C, Schumm LP, Tung EL. CommunityRx: A real-world controlled clinical trial of a scalable, low-intensity community resource referral intervention. *American Journal of Public Health*. 2019 Apr;109(4):600-606.
6. Li C*, Hansen RA, **Chou C**, Calderón AI, Qian J. Trends in botanical dietary supplement use among US adults by cancer status: NHANES 1999-2014. *Cancer*. 2018;124(6):1207-1215.
7. Davis AM, Taitel MS, Jiang J, Qato DM, Peek ME, **Chou C**, Huang ES. A national assessment of medication adherence to statins by the racial composition of neighborhoods. *Journal of Racial and Ethnic Health Disparities*. 2017 Jun;4(3):462-471.

8. Lin Wu FL, Wang J*, Ho W*, **Chou C[#]**, Wu YJ Choo DW, Wang YW, Chen PY, Chien KL, Lin ZF. Effectiveness of a combination of ezetimibe and statins in patients with acute coronary syndrome and multiple comorbidities: A 6-year population-based cohort study. *International Journal of Cardiology*. 2017 Apr 15;233:43-51.
9. Ahuja V, **Chou C^{**}**. Novel therapeutics for diabetes: uptake, usage trends, and comparative effectiveness. *Current Diabetes Reports*. 2016;16(6):47.
10. Laiteerapong N, Fairchild PC, **Chou C**, Chin MH, Huang ES. Revisiting disparities in quality of care among US adults with diabetes in the era of individualized care, NHANES 2007-2010. *Medical Care*. 2015;53(1):25-31.
11. Clark BL, Hou J, **Chou C**, Huang ES, Conti RM. The 340B discount program: outpatient prescription dispensing patterns through contract pharmacies in 2012. *Health Affairs (Millwood)*. 2014;33(11):2012-7.
12. Nundy S*, Dick JJ, **Chou C**, Nocon RS, Chin MH, Peek ME. Mobile phone diabetes project led to improved glycemic control and net savings for Chicago plan participants. *Health Affairs (Millwood)*. 2014;33(2):265-72.
13. Young GJ, Rickles NM, **Chou C**, Raver EW*. Socioeconomic characteristics of enrollees appear to influence performance scores for Medicare Part D contractors. *Health Affairs (Millwood)*. 2014;33(1):140-146.
14. Gören JL, Meterko M, Williams S, Young GJ, Baker E, **Chou C**, Kilbourne AM, Bauer MS. Antipsychotic prescribing pathways, polypharmacy and clozapine use in treatment of schizophrenia. *Psychiatric Services*. 2013;64(6):527-33.
15. Young GJ, **Chou C**, Alexander JA, Lee D, Raver EW*. Provision of community benefits among tax exempt hospitals: A national assessment. *New England Journal of Medicine*. 2013;368(16):1519-27.
16. Lin HW, Ku CH, Lee JF, Tan AC, **Chou C[#]**. A nationwide evaluation on electronic medication-related information provided by hospital websites. *Journal of Evaluation in Clinical Practice*. 2013;19(2):304-10.
17. **Chou C**, Tulolo A*, Raver EW*, Hsu CH, Young GJ. Effect of race and health insurance on health disparities: Results from the National Health Interview Survey 2010. *Journal of Health Care for the Poor and Underserved*. 2013;24(3):1353-63.
18. **Chou C**, Reed SD, Allsbrook JS, Steele JL, Schulman KA, Alexander MJ. Costs of vasospasm in patients with aneurismal subarachnoid hemorrhage. *Neurosurgery*. 2010;67(2):345-52.
19. Diana MA*, **Chou C^{**}**, Hammill BG, Graham FL, Schulman KA, Telen MJ, Reed SD. Outcomes of inpatients with and without sickle cell disease after high-volume surgical procedures. *American Journal of Hematology*. 2009;84(11):703-09.
20. Lambert BL, **Chou C**, Chang KY, Tafesse E, Carson W. Antipsychotic exposure and Type 2 diabetes among patients with schizophrenia: a matched case-control study of California Medicaid claims. *Pharmacoepidemiology and Drug Safety*. 2005;14(6):417-25.
21. Mott DA, Kreling DH, Hermansen-Kobulnicky C, **Chou C**. Medicaid Pharmaceutical Care program – pharmacy participation and the characteristics of claims submitted. *Journal of the Pharmacy Society of Wisconsin*. 2005 March/April:12-16.

22. Belli RF, Lee EH, Stafford FP, **Chou C**. Calendar and question-list survey methods: association between interviewer behaviors and data quality. *Journal of Official Statistics*. 2004;20(2):185-218.
23. Lambert BL, **Chou C****, Chang KY, Carson W, Tafesse E. Antipsychotic use and new onset type II diabetes among schizophrenics. *Schizophrenia Research*. 2003;1(60):359-360.
24. Pfister J, **Chou C****. Progress in reducing mortality among persons 65 to 74 years of age in Wisconsin. *Wisconsin Medical Journal*. 2003;102(8):52-56. PMID: 14733380.
25. Lambert BL, **Chou C**, Chang KY, Iwamoto T, Tafesse E. Assessing the risk of antipsychotic-induced type II diabetes among schizophrenics: a match case-control study. *European Neuropsychopharmacology*. 2002;12:307-308.

Peer-reviewed original articles in other format:

1. **Chou C**, Burnet DL, Meltzer DO, Huang ES. “The Effectiveness of Diabetes Prevention Programs in Community Settings.” A synthesis report for the New York State Health Foundation & Robert Wood Johnson Foundation, March 11, 2015.
2. Mott DA, Kreling DH, Hermansen-Kobulnicky C, **Chou C**. “Report on the Wisconsin Medicaid Pharmaceutical Care Program: Survey of Pharmacy Provider Participation.” A report for The Community Pharmacy Foundation, March 31, 2005.
3. Mott DA, Kreling DH, Hermansen-Kobulnicky C, **Chou C**. “Report on the Wisconsin Medicaid Pharmaceutical Care Program: Pharmacy Provider Participation and Pharmaceutical Care Claims.” A report for The Community Pharmacy Foundation, August 3, 2004.

Books and book chapters:

1. **Chou C**, Huang ES. “Providing Cost-Effective Diabetes Care,” Chapter 37 in *Diabetes in Old Age*, 4th Edition. Alan J. Sinclair, Trisha Dunning, Leocadio Rodríguez Mañas, Medha Munshi. Wiley-Blackwell, May 2017.

Works in press, under review, in preparation, etc. not yet publically available:

1. Yao SH, Tsai HT, Lin WL, Chen YC, **Chou C**, Lin HW. Predicting the serum digoxin concentrations of infants in the neonatal intensive care unit through an artificial neural network. *BMC Pediatrics*. (Under review)
2. Lindau ST, Makelarski JA, Abramsohn E, Beiser DG, Boyd K, **Chou C**, Giurcanu M, Huang ES, Liao C, Schumm LP, Tung EL. Moderators of self-efficacy for finding resources among adults receiving referrals to community resources in the CommunityRx real-world trial. *American Journal of Public Health*. (Under review)
3. Lindau ST, Makelarski JA, Abramsohn E, Beiser DG, Boyd K, **Chou C**, Giurcanu M, Huang ES, Liao C, Schumm LP, Tung EL. Building a computational laboratory to evaluate the population-level health impact of an information-based intervention: a case study of the CommunityRx agent-based model. (Under revision)

4. Cheng CN, Wang CY, Lin HW, Chang TY, Lin HJ, **Chou C**, Lin FJ. Effect of add-on basal insulin after dual oral hypoglycemic agent therapy failure on cardiovascular event, all-cause mortality and hypoglycemia outcomes. *Scientific Reports*. (Under review)
5. Ekong G, **Chou C**, Lakin J, Hardin A, Fox BI, Hunt C, Kavookjian J. Pharmacists trained in motivational interviewing: intervention for diabetes medication adherence on a worksite wellness program. *Journal of the American Pharmacists Association*. (Under review)
6. Alatawi Y, Hansen RA, **Chou C**, Qian J, Suppiramaniam V, Cao G. The Association between antidepressants use and development of cognitive impairment among older women diagnosed with breast cancer. *Drugs & Aging*. (Under review)
7. Fahim SM*, Hsu CH, Lin FJ, Qian J, **Chou C*****. Impact of antidiabetic medication use on breast cancer diagnostic characteristics. (In preparation)
8. Fahim SM*, Crosby C*, Hsu CH, Lin FJ, Qian J, **Chou C*****. Association between antidiabetic medication use and breast cancer prognosis. (In preparation)
9. Crosby C*, **Chou C*****, Camp CN*, Hohmann NS*, Hastings TJ*, Maciejewski ML, Farley JF, Domino ME, Hansen RA. Care coordination among primary care physicians, psychiatrists, and oncologists treating patients with multiple chronic conditions. (In preparation)
10. **Chou C**, Crosby C*, Abrams JD*, Maciejewski ML, Farley JF, Domino ME, Hansen RA. Care coordination between psychiatrists and physicians with different specialties. (In preparation)

Peer-reviewed abstracts / presentations at national or international meetings:

1. McDaniel CC*, Harris SM*, Sewell MJ, **Chou C*****. Pharmacist implementation of a transitional care program in an indigent clinic: A randomized controlled trial reveals potential challenges and impact on readmission rates. Podium presentation at the American Pharmacists Association 2020 Annual Meeting & Exposition. National Harbor, MD, March 2020.
2. Rockwell D*, McDonald C*, McDaniel CC*, Loh FE, **Chou C*****. Trends in healthcare cost affirm the financial burden of diabetes among Medicare beneficiaries with cancer. Poster presentation at the 2019 American Society of Health-System Pharmacists Midyear Clinical Meeting & Exhibition. Las Vegas, NV, December 2019.
3. McDaniel CC*, McDonald C*, Rockwell D*, Loh FE, **Chou C*****. Disparities in quality of diabetes care and healthcare costs among cancer patients with diabetes: An investigation of a nationally representative sample of Medicare beneficiaries. Poster presentation at the 2019 American Society of Health-System Pharmacists Midyear Clinical Meeting & Exhibition. Las Vegas, NV, December 2019.
4. Fahim SM*, Hsu CH, Qian J, **Chou C*****. Impact of antidiabetic medication use on breast cancer diagnostic characteristics. Poster presentation at the ISPE 35th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE). Philadelphia, PA, August 2019.
5. Zeng Z*, Mishuk AU*, Edwards K*, **Chou C**, Qian J. Safety of dietary supplements use among cancer patients: a systematic review of clinical trials. Poster presentation at the

ISPE 35th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE). Philadelphia, PA, August 2019.

6. Cheng N*, Qian J, Farley J, Zeng P, **Chou C**, Hansen RA. Association of Continuity of Care & Mortality for breast cancer patients with comorbidities. Poster presentation at the ISPE 35th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE). Philadelphia, PA, August 2019.
7. Huo N*, **Chou C**, Garza KB, Qian J. Trends and factors associated with respiratory allergy conditions among U.S. prostate cancer patients in 2007-2016. Poster presentation at the ISPE 35th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE). Philadelphia, PA, August 2019.
8. Powell E*, Sewell J, **Chou C**, Johnson S, Nelson D. Evaluation of an indigent care medication provision program on 30-day readmission rates in a community hospital. Poster presentation at the 2018 American Society of Health-System Pharmacists Midyear Clinical Meeting & Exhibition. Anaheim, CA, December 2018.
9. Williams MS, **Chou C**. Reaching those in need: A systematic review of health behavior telehealth interventions targeted towards cancer survivors in rural and medically underserved areas. Poster presentation at 2018 Community Engagement Institute - Building Bridges for Better Health through Engaging Communities. Hoover, AL, October 2018.
10. **Chou C**, Hohmann NS*, Hastings TJ*, Chao L*, Farley J, Maciejewski ML, Domino M, Hansen RA. Primary Care Physician, Oncologist, and Psychiatrist Comfort Levels with Prescriptions Written by Themselves and Peers for Cancer Comorbidities. Poster presentation at the ISPE 34th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE 2018). Prague, Czech Republic, August 2018.
11. Aref HAT*, Garza KB, Westrick SC, **Chou C**, Worthington D, Kam F. Effects of online video and text educational material on knowledge, perceptions, and intention of Men B vaccination among college students. Poster presentation at 2018 AACP Annual Meeting. Boston, MA, July 2018.
12. Aref HAT*, Garza KB, **Chou C**, Fox BI, Hester EK. Social marketing in human immunodeficiency virus pre-exposure prophylaxis. Poster presentation at 2018 AACP Annual Meeting. Boston, MA, July 2018.
13. **Chou C**, Hohmann NS*, Hastings TJ*, Li C*, Farley J, Maciejewski ML, Domino M, Hansen RA. Physicians' comfort levels with prescriptions for cancer comorbidities that they and other healthcare providers write. Presentation at 2018 ASCO Annual Meeting. Chicago, IL, June 2018.
14. Lindau ST, Makelarski JA, Abramssohn E, Beiser DG, Boyd K, **Chou C**, Giurcanu M, Huang ES, Tung EL. A controlled trial of CommunityRx: Effects of systematizing personalized patient referrals at the point of health care to community-based self-care resources. Poster presentation at the AcademyHealth 2018 Annual Research Meeting. Seattle, WA, June 2018.
15. Huo N*, Li C*, **Chou C**, Garza KB, Qian J. Trends and factors associated with respiratory allergy conditions among U.S. prostate cancer patients in 2007-2016. Poster presentation at the ISPOR 23rd Annual International Meeting. Baltimore, MD, May 2018.

16. Cheng N*, Hohmann NS*, Hastings TJ*, Li C, Qian J, **Chou C**, Hansen RA. Physicians' perceived awareness of patients' medications: A cross-sectional survey. Poster presentation at the ISPOR 23rd Annual International Meeting. Baltimore, MD, May 2018.
17. Tung EL, Abramsohn E, Boyd K, Beiser DG, **Chou C**, Huang ES, Ozik J, Kaligotla C, Lindau ST. Using HealthIT to mobilize community resources in clinical settings: The CommunityRx Trial. Podium presentation at the 2018 Society of General Internal Medicine Annual Meeting. Denver, CO, April 2018. (*Hamolsky Award Finalists Abstract Presentations*)
18. Jacobs J*, **Chou C**, Hester EK. Transmitted antiretroviral drug resistance evaluation in treatment-naïve HIV-infected patients in central Alabama. Poster presentation at the 2017 American Society of Health-System Pharmacists Midyear Clinical Meeting & Exhibition. Orlando, FL, December 2017.
19. Mason SW*, Hohmann NS*, **Chou C*****. Patient perspectives on the role of pharmacists in oncology care coordination: A systematic literature review. Poster presentation at the 2017 American Society of Health-System Pharmacists Midyear Clinical Meeting & Exhibition. Orlando, FL, December 2017.
20. Cheng N*, Qian J, **Chou C**, Hansen RA. Patterns of specialty of healthcare providers involved for treating breast cancer survivors with chronic comorbidities in the United States. Poster presentation at the American Public Health Association 2017 Annual Meeting and Expo. Atlanta, GA, November 2017.
21. Li C*, Qian J, **Chou C**, Calderón AI, Hansen RA. Trends in botanical dietary supplement use among US adults with cancer in NHANES 1999-2014. Poster presentation at the American Public Health Association 2017 Annual Meeting and Expo. Atlanta, GA, November 2017.
22. Rahman MM*, Howard G, Qian J, **Chou C**, Hansen RA. Disparities in the appropriateness of medication use: analysis of REGARDS study. Podium presentation at the ISPE 33rd International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE 2017). Montreal, Canada, August 2017.
23. Iveniuk J, Waite LJ, Ahuja V, **Chou C**, Huang ES. Relationship quality and diabetes in older couples. Podium presentation at the American Sociological Association 2017 Annual Meeting. Montreal, QC, Canada, August 2017.
24. Lindau ST, Makelarski JA, Abramsohn EM, Beiser DG, **Chou C**, Escamilla V, Huang ES, Lee KK, Ozik J, Tung EL, Macal CM. Formulating the Computational Community Trial: an agent-based modeling method to evaluate the multi-level impact of an information-based, population health intervention. Poster presentation at the AcademyHealth 2017 Annual Research Meeting. New Orleans, LA, June 2017.
25. Iveniuk J, Waite LJ, Ahuja V, **Chou C**, Huang ES. Relationship quality, depressive symptoms, and diabetes in older couples. Podium presentation at the Annual Canadian Sociological Association Conference 2017. Toronto, ON, Canada, May-June 2017
26. Tung EL, Makelarski JA, Escamilla V, Huang ES, Beiser DG, **Chou C**, Vinci LM, Lindau ST. Regional variation in the supply and demand of self-care resources: a case study from the south side of Chicago. Poster presentation at the Society of General Internal Medicine 2016 Midwest Regional Meeting. Cleveland, OH, September 2016.

27. Clark B, Hou JG, Huang ES, Conti R, **Chou C*****. Medication adherence among HIV/AIDS patients receiving 340B-purchased antiretroviral medications. Podium presentation at ISPOR 21st Annual International Meeting. Washington DC, May 2016.
28. Tung EL, Makelarski JA, Escamilla V, Huang ES, Beiser DG, **Chou C**, Vinci LM, Lindau ST. CommunityRx: connecting health care to self-care in an academic primary care clinic on Chicago's south side. Poster presentation at the Society of General Internal Medicine 2016 Annual Meeting. Hollywood, FL, May 2016.
29. Clark B, Hou JG, **Chou, C**, Huang ES, Conti R. Medication adherence among 340B patients with hypertension, hyperlipidemia, and diabetes. Poster presentation at the Academy of Managed Care Pharmacy Annual Meeting 2016. San Francisco, CA, April 2016.
30. Iveniuk J*, Ahuja V, **Chou C**. Relationship quality and diabetes in older couples. Poster presentation at the Population Association of America 2016 Annual Meeting. Washington DC, March-April 2016.
31. Laiteerapong N, Fairchild P, **Chou C**, Chin MH, Huang ES. Revisiting disparities in quality of care among U.S. adults with diabetes in the era of individualized targets, NHANES 2007-2010. Podium presentation at the Society of General Internal Medicine 2014 Midwest Regional Meeting. Chicago, IL, September 2014.
32. **Chou C**, Burnet DL, Meltzer DO, Huang ES. An evidence based synthesis of diabetes prevention programs for policymakers. Poster presentation at the 2014 AcademyHealth Annual Research Meeting. San Diego, CA, June 2014.
33. Clark B, Hou J, **Chou C**, Huang ES, Conti RM. National outpatient prescription dispensing patterns through contract pharmacies serving the 340B drug discount program in 2012. Poster presentation at the 2014 AcademyHealth Annual Research Meeting. San Diego, CA, June 2014.
34. **Chou C**, Clark B, Hou J, Huang ES, Conti RM. Does the 340B Program reach communities in need? Poster presentation at the 2014 AcademyHealth Annual Research Meeting. San Diego, CA, June 2014.
35. Laiteerapong N, Fairchild P, **Chou C**, Chin MH, Huang ES. Revisiting disparities in quality of care among U.S. adults with diabetes in the era of individualized targets, NHANES 2005-2010. Podium presentation at the Society of General Internal Medicine 37th Annual Meeting, San Diego, CA, April, 2014.
36. Young GJ, Rickles NM, **Chou C**, Raver E*. Are the performance ratings of Medicare Part D plans influenced by the socio-economic composition of their enrollees? Poster presentation at the 2013 AcademyHealth Annual Research Meeting. Baltimore, MD, June 2013.
37. **Chou C**, Lu CY, Ross-Degnan D, Soumerai SB, Wharam JF. The impact of high-deductible health plans on emergency department use and subsequent hospitalizations among patients with and without mental illness. Poster presentation at the 2013 AcademyHealth Annual Research Meeting. Baltimore, MD, June 2013.
38. **Chou C**, Tulolo A*, Raver E*, Hsu CH. Persistent racial and ethnic disparities in healthcare utilization – evidence from National Health Interview Survey. Poster presentation at the ISPOR 5th Asia-Pacific Conference. Taipei, Taiwan, September 2012.

39. DiVall M, Van Amburgh JA, Derderian C, Gingras D, Barr J, **Chou C**, Douglass M, Edwards RA, Kirwin J, Rickles NM, Skirvin JA, Zgarrick D. An inventory of interprofessional activities and collaborations at Northeastern University School of Pharmacy. Poster presentation at the American Association of Colleges of Pharmacy Annual Meeting. Kissimmee, FL, July 2012.
40. Yu IW, Lin HW, Liao CH, **Chou C**, Wu MP. Trends of Z-drugs prescriptions in Taiwanese adult populations. Poster presentation at the ISPOR 17th Annual International Meeting. Washington, DC, June 2012.
41. Young GJ, **Chou C**, Alexander JA, Lee D, Raver E. The provision of charity care and other community benefits among tax-exempt hospitals: A national assessment. Podium presentation at the 2012 AcademyHealth Annual Research Meeting. Orlando, FL, June 2012.
42. **Chou C**, Tulolo A*, Hsu CH. Can health insurance reduce health care disparities? Poster presentation at the 2012 AcademyHealth Annual Research Meeting. Orlando, FL, June 2012.
43. Quach K*, Sheikh M*, Sangasubana N, **Chou C**, Marino J. Determinants of Florida pharmacists' perceived role innovation: empowerment, social support, organizational support and what else? Poster presentation at the 46th American Society of Health-System Pharmacists Midyear Clinical Meeting & Exhibition. New Orleans, LA, December 2011.
44. Sheikh M*, Quach K*, Sangasubana N, **Chou C**, Lai L. Effects of job complexity, role conflict, role ambiguity and role overload on Florida pharmacists' perceptions of person-organization fit. Poster presentation at the 46th American Society of Health-System Pharmacists Midyear Clinical Meeting & Exhibition. New Orleans, LA, December 2011.
45. **Chou C**, Reed SD, Allsbrook JS, Steele JL, Schulman KA, Alexander MJ. Higher inpatient costs among patients with subarachnoid hemorrhage complicated by vasospasm. Poster presentation at the ISPOR 13th Annual International Meeting. Toronto, ON, Canada, May 2008.
46. Hung SY*, Watcharadamrongkun S*, Kim M*, **Chou C**, Westrick S, Mount JK. State law affects how perceived external support influences pharmacy-based immunization delivery. Poster presentation at the Centers for Disease Control and Prevention (CDC) 42nd national Immunization Conference. Atlanta, GA, March 2008.
47. **Chou C**, Reed SD, Allsbrook JS, Steele JL, Schulman KA, Alexander MJ. Incremental cost of vasospasm in patients with aneurysmal subarachnoid hemorrhage. The Select Abstract presentation at the 2007 Congress of Neurological Surgeons Annual Meeting. San Diego, CA, September 2007.
48. **Chou C**, Reed SD, Telen MJ, Schulman KA. A comparison of inpatient outcomes between sickle cell disease and non-sickle cell disease patients undergoing high-volume surgical procedures. Poster presentation at the ISPOR 12th Annual International Meeting. Arlington, VA, May 2007.
49. **Chou C**, Mott DA, Kreling DH. Did point-of-sale and prospective drug utilization review increase pharmacy participation in pharmaceutical care? Podium presentation at the Midwest Social and Administrative Pharmacy Conference. Minneapolis, MN, July 2006.

50. **Chou C**, Mott DA, Kreling DH. Using time series analysis to evaluate the effects of two policy changes in the Wisconsin Medicaid Pharmaceutical Care Project. Poster presentation at the American Pharmacists Association 2006 Annual Meeting. San Francisco, CA, March 2006.
51. Kreling DH, Mott DA, **Chou C**. Trends in prescription cost shielding for Medicare beneficiaries by drug coverage: 1994 to 1999. Podium presentation at the American Pharmacists Association 2004 Annual Meeting. Seattle, WA, March 2004.
52. Mott DA, Kreling DH, **Chou C**. Rates and implications of drug cost imputations in the Medicare Current Beneficiary Survey. Poster presentation at the American Pharmacists Association 2004 Annual Meeting. Seattle, WA, March 2004.
53. Lambert BL, **Chou C**, Chang KY, Carson WT, Tafesse E. Antipsychotic use and new-onset Type II diabetes among schizophrenics. Paper presentation at the IXth International Congress on Schizophrenia Research. Colorado Springs, CO, March 2003.
54. Lambert BL, **Chou C**, Chang KY, Iwamoto T, Tafesse E. Assessing the risk of antipsychotic-induced Type II diabetes among schizophrenics: A matched case-control study. Poster presentation at the 15th European Neuropsychopharmacology Conference. Barcelona, Spain, October 2002.

Abstracts / presentations at regional or local professional meetings:

1. Harris SM*, McDaniel CC*, Sewell J, **Chou C*****. Does pharmacist intervention post hospitalization in an indigent clinic decrease readmission rates? Invited presentation at the Auburn University Research Faculty Symposium. Auburn, AL, October 4, 2019.
2. Abrams JD*, McDaniel CC*, **Chou C*****, Maciejewski ML, Farley JF, Domino ME, Hansen RA. Inclusion of mental health in primary care: an investigation of psychiatrists and primary care providers comfort. Invited presentation at the Auburn University Research Faculty Symposium. Auburn, AL, October 4, 2019.
3. Powell E*, Sewell J, **Chou C**, Nelson D, Johnson S, Wilkerson W. Evaluation of an indigent care medication provision program on 30-day readmission rates in a community hospital. Oral presentation at the 50th Southeastern Residency Conference. Athens, GA, April 25-26, 2019.
4. Powell E*, Sewell J, **Chou C**, Nelson D, Johnson S, Wilkerson W. Evaluation of an indigent care medication provision program on 30-day readmission rates in a community hospital. Oral presentation at the 2019 Alabama Residency Conference of Alabama Society of Health-System Pharmacists. Birmingham, AL, April 12, 2019.
5. Fahim SM*, Hsu CH, Lin FJ, Qian J, **Chou C*****. Impact of antidiabetic medication use on breast cancer diagnostic characteristics. Podium presentation at the Auburn University Research Student Symposium. Auburn, AL, April 9, 2019.
6. **Chou C**. Transitions of care: how we can advance healthcare in vulnerable populations by utilizing pharmacists' expertise? Invited oral presentation at the Auburn University Research Council. Auburn, AL, February 28, 2019.
7. **Chou C**, Sewell J, Means S*, Crosby C*. The development and implementation of a pharmacist-led transitional care program for uninsured population. Invited presentation at the Auburn University Research Faculty Symposium. Auburn, AL, October 23, 2018.

8. Fahim SM*, Qian J, **Chou C******. Impact of antidiabetic medication use on breast cancer diagnostic characteristics. Podium presentation at the Auburn University Research Initiative in Cancer (AURIC) Annual Research Meeting. Opelika, AL, August 24-25, 2018.
9. Huo N*, Li C*, **Chou C**, Garza KB, Qian J. Trends and factors associated with respiratory allergy conditions among U.S. prostate cancer patients in 2007-2016. Podium presentation at the Auburn University Research Initiative in Cancer (AURIC) Annual Research Meeting. Opelika, AL, August 24-25, 2018.
10. Cheng N*, Hohmann NS*, Hastings TJ*, Li C*, Qian J, **Chou C******, Hansen R. Physicians' perceived awareness of patients' medications: a cross-sectional survey. Southern Pharmacy Administration Conference. Auburn, Alabama, June 2018.
11. Huo N*, Li C*, **Chou C**, Garza KB, Qian J. Trends and factors associated with respiratory allergy conditions among U.S. prostate cancer patients in 2007-2016. Poster presentation at This Is Research Student Symposium. Auburn University, AL, March 26, 2018.
12. Cheng N*, Hohmann NS*, Hastings TJ*, Li C*, Qian J, **Chou C******, Hansen RA. Physicians' perceived awareness of patients' medications: a cross-sectional survey. Poster presentation at This Is Research Student Symposium. Auburn University, AL, March 26, 2018.
13. Hollingsworth ML*, Fox BI, **Chou C**, Hansen RA. Using a web-based tool to rapidly generate health outcome data to train artificial intelligence. Presentation at the Graduate Engineering Showcase, Auburn University, November 2017.
14. Hastings TJ*, Li C*, Hohmann NS*, **Chou C******, Hansen RA. Perceived comfort level with prescribing medications: self- and peer-evaluation of oncologists. Podium presentation at the Auburn University Research Initiative in Cancer (AURIC) Annual Research Meeting. Opelika, AL, August 25-26, 2017.
15. Hohmann NS*, Li C*, Hastings TJ*, **Chou C******, Hansen RA. Factors associated with perceived comfort level of prescribing cancer therapeutic drugs. Podium presentation at the Auburn University Research Initiative in Cancer (AURIC) Annual Research Meeting. Opelika, AL, August 25-26, 2017.
16. Li C*, Hansen RA, **Chou C**, Calderón AI, Qian J. Trends in botanical dietary supplement use among US adults with cancer in NHANES 1999-2014. Podium presentation at the Auburn University Research Initiative in Cancer (AURIC) Annual Research Meeting. Opelika, AL, August 25-26, 2017.

FUNDING

Completed:

1. New York State Health Foundation & Robert Wood Johnson Foundation 13-01756. MPIs: Huang ES /Meltzer DO. My role: Co-Investigator. Title: An Evidence-Base Synthesis of Policy Options for Preventing Diabetes. Direct cost: \$107,968. Annual salary recovery or effort: 40%. Project period: 02/28/13-06/30/14.

2. NIH/NIA R01AG033903. PI: Waite LJ. My role: Research Associate. Title: NSHAP Wave II Partner Data Collection. Total cost: \$820,659. Annual salary recovery or effort: 8.3%. Project period: 08/15/13-07/31/14.
3. AHRQ 7U19HS021093-03. PI: Lambert BL. My role: Co-Investigator. Title: Tools for Optimizing, Prescribing, Monitoring and Education. Total cost: \$955,046. Annual salary or effort: 15%. Project period: 09/01/13-08/31/14.
4. NIH/NIDDK P30DK092949. Chicago Center for Diabetes Translation Research - Pilot and Feasibility Award. PI: Chou C (myself). Title: Diabetes Treatments and Cancer Survival Outcomes among Women with Coexisting Type 2 Diabetes and Breast Cancer. Direct cost: \$22,477. Annual salary recovery or effort: 10%. Project period: 03/01/15-02/29/16.
5. AHRQ 1R03HS022628. PI: Huang ES. My role: Co-Investigator. Title: Case Studies on the Cost of Medical Home Transformation and Maintenance in the Safety Net. Total cost: \$99,992. Annual salary recovery or effort: 5%. Project period: 09/30/13-03/31/16.
6. NIH/NIA R01AG048511. PI: Waite LJ. My role: Research Associate. Title: National Social Life Health and Aging Project. Direct cost: \$3,020,914. Annual salary recovery or effort: 15%. Project period: 09/15/14-06/30/16.
7. Dexcom, Inc. PI: Huang ES. My role: Co-Investigator. Title: The Multiple Daily Injections and Continuous Glucose Monitoring in Diabetes: DiaMonD Study. Direct cost: \$164,610. Annual salary recovery or effort: 30%. Project period: 07/01/14-12/31/16.
8. CMS HHSM-500-T0009. PI: Moiduddin A. My role: Co-Investigator. Title: Health Care Innovation Awards (HCIA) Evaluations – Community Resource Planning. Direct cost: \$105,763. Annual salary recovery or effort: 25%. Project period: 09/09/13-09/08/17.
9. AURIC Seed Grant. PI: Hansen RA. My role: Co-PI. Title: Appropriateness and coordination of medication prescribing across cancer patients seeing multiple different healthcare providers. Direct cost: \$20,000. Annual salary recovery or effort: 0%. Project period: 10/01/16-09/30/17.
10. Helmsley Charitable Trust/University of Colorado 2015PG-T1D059. PI: Raymond J. Subcontract PI: Huang ES. My role: Co-Investigator. Title: Innovative Clinical Care Approach for Young Adults with Type 1 Diabetes: The DTC (Diabetes Telehealth Care Beyond High School) Study. Direct cost: \$331,885. Annual salary recovery or effort: 20%. Project period: 01/01/15-12/30/17.
11. Helmsley Charitable Trust/University of Colorado 2015PG-T1D060. PI: Gerard-Gonzalez. Subcontract PI: Huang ES. My role: Co-Investigator. Title: Type 1 Model of Diabetes Complications for Latino Populations. Direct cost: \$150,023. Annual salary recovery or effort: 10%. Project period: 01/01/15-12/31/17.
12. Helmsley Charitable Trust/University of Colorado 2015PG-T1D080. PI: Raymond J. Subcontract PI: Huang ES. My role: Co-Investigator. Title: Team Clinic: An Innovative Approach to Care of Adolescents with Type 1 Diabetes Health Economics and Cost Effectiveness Analysis. Direct cost: \$331,885. Annual salary recovery or effort: 20%. Project period: 07/01/15-06/30/18.

13. FDA BAA-13-0019. PI: Peissig PL. My role: Co-Investigator. Title: Comparative surveillance of generic drugs by machine learning. Total cost: \$2,500,000 (AU subcontract). Annual salary recovery or effort: 8%. Project period: 09/30/15-09/29/18.
14. AURIC Seed Grant. PI: Chou C (myself). Title: Racial disparities in glucose-lowering therapies use and survival outcomes among breast cancer patients with co-existing type 2 diabetes. Direct cost: \$19,008. Annual salary recovery or effort: 20%. Project period: 10/01/17-09/30/18.
15. NACDS Foundation Merit-Based Grant. PI: Chou C (myself). Title: The impact of a pharmacist-led transitional care program on health outcomes of uninsured populations. Direct cost: \$20,000. Annual salary recovery or effort: 30%. Project period: 07/01/18-06/30/19.

Current:

1. NIH/NIA R01AG047869. PI: Lindau ST. My role: Co-Investigator. Title: Evaluating a Self-Care Innovation for Older Adults using Agent-Based Modeling. Total cost: \$3,375,075. Annual salary recovery or effort: 15% in years 1-3; 30% in years 4-5. Project period: 09/01/14-05/31/20.
2. NIH/NIGMS R01GM097618. PI: Page D. My role: Co-Investigator. Title: Machine Learning for Adverse Drug Events. Total cost: \$1,611,971. Annual salary recovery or effort: 8%. Project period: 07/01/16-06/30/20.
3. American Society of Health-System Pharmacists Foundation. PI: Kelly OM. My role: Co-Investigator. Title: Improving Hypertension Control through Community-based Pharmacist Intervention.

TEACHING

Auburn University

For PharmD program:

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|-------------|---|
| Spring 2020 | PYPD 9980 Pharmacy Research, 2 CR |
| Spring 2020 | PYPD XXXX Longitudinal Experience VI, 3 CR |
| Spring 2020 | PYPD 9330/9336 Longitudinal Experience II, 3 CR |
| Fall 2019 | PYPD 9980 Pharmacy Research, 1 CR |
| Fall 2019 | PYPD 9320/9326 Longitudinal Experience I, 3 CR |
| Spring 2019 | PYPD 9980 Pharmacy Research, 2 CR |
| Spring 2019 | PYPD 9330/9336 Longitudinal Experience II, 3 CR |
| Spring 2019 | PYPD 9110/9130; PYDI 9590 Pharmacy Practice Experience II, IV, VI, 2 CR |
| Fall 2018 | PYPD 9530/9536 Research Methods in Health Services I, 1 CR |
| Fall 2018 | PYPD 9540/9546 Research Methods in Health Services II, 1 CR |
| Fall 2018 | PYDI 9960 Special Problems in Pharmacy, 2 CR |
| Fall 2018 | PYPD 9320/9326 Longitudinal Experience I, 3 CR |
| Fall 2018 | PYPD 9100/9120; PYDI 9490 Pharmacy Practice Experience I, III, V 2 CR |
| Spring 2018 | PYPD 9330/9336 Longitudinal Experience II, 3 CR |
| Spring 2018 | PYPD 9110; PYDI 9390/9590 Pharmacy Practice Experience II, IV, VI, 2 CR |

Fall 2017 PYPD 9320/9326 Longitudinal Experience I, 3 CR
Fall 2017 PYPD 9100; PYDI 9290/9490 Pharmacy Practice Experience I, III, V, 2 CR
Spring 2017 PYDI 9960 Special Problems in Pharmacy, 2 CR
Spring 2017 PYDI 9190/9390/9590 Pharmacy Practice Experience II, IV, VI, 2 CR

For Graduate programs:

Fall 2019 HORP 7510 Health Services Delivery and Evaluation, 3 CR
Fall 2019 HORP 7820 Research Methods and Design for Health Services I, 2 CR
Spring 2019 HORP 7540 Pharmacoepidemiology: Methods and Applications, 3 CR
Fall 2018 HORP 7820 Research Methods and Design for Health Services I, 2 CR
Spring 2018 HORP 7520 Social and Behavioral Theory in Health, 3 CR
Spring 2018 HORP 7950/8950 Seminar, 1 CR
Fall 2017 HORP 7820 Research Methods and Design for Health Services I, 2 CR

Graduate students advised:

2018-present Cassidi McDaniel, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (Chair, Ph.D. dissertation committee)
2018-present Brandy Davis, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (Ph.D. dissertation committee)
2018-present Chao Li, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (Ph.D. dissertation committee)
2017-2018 Heba Aref, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (M.S. thesis committee)
2016-present Ruth Jeminiwa, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (Ph.D. dissertation committee)
2016-2019 Nan Huo, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (Ph.D. dissertation committee)
2016-2019 Ning Cheng, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (Ph.D. dissertation committee)
2016-2018 Md Motiur Rahman, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (Ph.D. advisory committee)
2016-2018 Yasser Alatawi, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (Ph.D. dissertation committee)
2016-2018 Gladys Ekong, Department of Health Outcomes Research and Policy, Harrison School of Pharmacy (Ph.D. dissertation committee)

PharmD students advised research trainees:

2020-present Dalton Turner (P2)
2019-present Taylor Byrd (P3)
2019-present Katherine Davis (P3)
2019-present Tiffany Cadwallader (P1)
2019-present Hayleigh Hallam (Honors College undergraduate)
2019-present John David Abrams (P1-P2)
2018-present Christina Camp (P2-P3)
2018-present Shelby Means (P2-P3)

2018-present Courtney McDonald (P3-P4)
2018-present Devan Rockwell (P3-P4)
2017-2018 Stennis Walker Mason (P3-P4)

University of Chicago

Research trainees:

Undergraduate or professional students (B.A., B.S. Medical student)
2014-2015 Victoria Gillet. Medical student University of Chicago. NIH/NIDDK Summer Research Program. Dietary Supplement Use and Marital Status
2013-2014 Emma Ye, Summer Research Program. Undergraduate University of Chicago. An Evidence-Based Synthesis of Policy Options for Preventing Diabetes

Northeastern University

For PharmD program:

Summer 2012 PHMD 4991 Research, 4 CR, 1 professional student (advisor)
Spring 2012 PHMD 3450 Research Methodology and Biostatistics, 4 CR, 154 professional students (coordinator/instructor)
Fall 2011 COOP 3945 Cooperative Work Experience, 2 professional students (preceptor/advisor)
Summer 2011 PHMD 4991 Research, 4 CR, 1 professional student (advisor)
Summer 2011 PHMD 6223 Drug Information and Evaluation, 3 CR, 136 professional students, 1 lecture on "Literature Evaluation" (instructor)
Spring 2011 PHMD 3450 Research Methodology and Biostatistics, 4 CR, 142 professional students (coordinator/instructor)
Spring 2010 PHMD 3450 Research Methodology and Biostatistics, 4 CR, 129 professional students (coordinator/instructor)
Fall 2009 PMD G467 Directed Practice APPE Rotation in Research, 2 professional students (advisor)
Summer 2009 PMD G250 Pharmacy Care Management, 3 CR, 95 professional students (coordinator/instructor)
Spring 2009 PMD U450 Research Methodology and Biostatistics, 4 CR, 83 professional students (instructor)
Spring 2009 PMD G210 Research Methodology and Biostatistics, 4 CR, 17 professional students (instructor)

For Graduate programs (PhD, MS in Pharmaceutical Sciences or Biotechnology):

Fall 2012 PHSC 6214 Experimental Design and Biometrics, 2 CR, 56 graduate students (co-instructor)
Fall 2011 PHSC 6214 Experimental Design and Biometrics, 2 CR, 47 graduate students (co-instructor)
Fall 2010 PHSC 6214 Experimental Design and Biometrics, 2 CR, 47 graduate students (co-instructor)

PharmD students advised research trainees:

2010-2012 Eli Raver
2010-2012 Sheri Leung
2009-2011 Tammie Nguyen
2008-2010 Amanda Tulolo

University of Wisconsin-Madison

For PharmD program:

Spring 2006 732-414 Pharmacy in the Health Care System, 3 CR, 70 professional students
(teaching assistant)
Fall 2005 732-411 Psychosocial and Management Aspects of Pharmacy, 3 CR, 50
professional students (teaching assistant)
Spring 2005 732-414 Pharmacy in the Health Care System, 3 CR, 45 professional students
(teaching assistant)
Fall 2004 732-411 Psychosocial and Management Aspects of Pharmacy, 3 CR, 48
professional students (teaching assistant)

SERVICE

Auburn University

University Service:

2019- Health Disparities Cluster Steering Committee, member
2019 Research proposal reviewer for HATCH proposal, Alabama Agricultural
Experiment Station (AAES) faculty appointment in Human Development and
Family Studies
2019 Judge, Auburn Research Student Symposium
2018 University Reader for The Graduate School (PhD candidate: David Curtis)
2017- ISPOR Auburn University Student Chapter, faculty advisor

School Service:

2020- Honor Board committee, member
2019- Post Graduate Education Advisory Committee, member
2018 Curricular Coordinator Search Committee, member
2018-2019 Self-Study, member
2018 Professional Education Sub Committee: Interprofessional Education, member
2017-2018 Office of Information Technology Advisory Group committee, member
2017-2018 Honor Board committee, member
2017- Professional Education: Learning Community 6- P3 Spring, member

Department Service:

2017-2018 Faculty Search Committee (regular replacement), member
2017-2018 Southern Pharmacy Administration Conference planning committee, member
2017 Administrative Support Associate Search Committee, chair
2016-2017 Faculty Search Committee (Omics and Informatics Strategic Cluster Hire),
member

University of Chicago

Leadership:

- 2013-2016 Associate Director for Health Services Research, Center for Translational and Policy Research of Chronic Disease, Section of General Internal Medicine, Department of Medicine
- Inaugural Associate Director of the Center for Translational and Policy Research of Chronic Diseases
 - Assist with or act on behalf of the Center Director in issues pertaining to outreach and future planning of Center initiatives
 - Advocate for Center financial support and promotion of upcoming events and current research
 - Expand Center research portfolio by adding expertise in study designs, program evaluations, simulation models and complex statistical methods
 - Participate in regular strategy/planning meetings

Northeastern University

College Service:

2010 Fall Bouvé International Student Welcome Reception Speaker

School Service:

2011-2012 Bylaws committee, member / interim chair
2009-2010 Graduate Committee for the Doctor of Pharmacy and Professional Programs, member
2008-2009 Standards for Students Subcommittee, ACPE Self-Study, member
2008-2009 Assessment of PEMS database from APPE rotations

Department Service:

2011-2012 Strategic Initiative Task Force Committee – Post Graduate, member
2009-2010 Faculty Search Committee, member (for six faculty positions)
(1) Co-funded Clinical Assistant Professor position with Inman Pharmacy
(2) Tenure-track Assistant Professor position in cardiology
(3) Clinical Assistant Professor position in psychiatry
(4) Co-funded Clinical Assistant Professor position in emergency medicine pharmacy with Brigham & Women's Hospital
(5) Co-funded Clinical Assistant Professor position in ambulatory care with Harbor Health
(6) Co-funded Clinical Assistant Professor position in infectious disease with Boston Medical Center

Extramural (not indicated above)

Professional organization and association committee service:

2019- National Institutes of Health (NIH) Review Panel
 2019-2020 AACP Social and Administrative Sciences (SAS) Section Summer Research Exchange Committee
 2019-2020 AACP Social and Administrative Sciences (SAS) Section Awards Committee
 2019-2020 AACP Council of Faculties Teacher's Seminar Committee
 2019 ISPOR Research Podium Presentation Award judge team
 2018 ISPOR Research Podium Presentations (Cost Studies Session) moderator
 2017 APhA-APRS ESAS Research Roundtable Breakfast speaker
 2016-2017 APhA-APRS ESAS Postgraduate Best Paper Award Committee
 2010-2012 AACP Abstract Review Committee

Reviewer activities:

Health Affairs
 JAMA Internal Medicine
 Journal of Managed Care & Specialty Pharmacy
 Journal of General Internal Medicine
 Journal of Health Care for the Poor and Underserved
 Clinical Therapeutics
 Medical Care
 PLOS ONE
 American Journal of Hypertension
 Journal of the American Pharmacists Association
 Research in Social & Administrative Pharmacy
 Currents in Pharmacy Teaching and Learning
 Value in Health
 Annual Meeting of the Society for Medical Decision Making
 ISPOR Annual International Meeting
 ISPOR Annual European Congress
 American Association of Colleges of Pharmacy Annual Meeting and Seminars
 American Pharmacists Association Contributed Papers Program
 Essentials of Pharmacy Management, Leadership, Marketing, and Finance, 1st ed. & 2nd edition

HONORS, PRIZES, AND AWARDS

Personal Awards

2019-2022 Fulbright Specialist roster, Bureau of Educational and Cultural Affairs, United States Department of State (Award in 2019)
 2018 Curriculum Star Award, Auburn University Harrison School of Pharmacy
 2018 NACDS Foundation Scholarships for excellence in pharmacy education
 2018 Hamolsky Award Finalist for research abstract, Society of General Internal Medicine Annual Meeting
 2017 Health Equity Course Redesign Award, Auburn University (with colleagues Drs. Kimberly Garza and Jan Kavookjian)
 2011 American Association of Colleges of Pharmacy Wal-Mart Scholar faculty mentor
 2007 Best Poster Awards Finalist, ISPOR 12th Annual International Meeting, Arlington, VA

- 2006-2008 Health Economics & Outcomes Research Fellowship, Center for Clinical and Genetic Economics, Duke Clinical Research Institute, Duke University Medical Center
- 2006 Jennings Murphy Award for the Best Paper in the Journal of the Pharmacy Society of Wisconsin
- 2006 Wiederholt Travel Award, University of Wisconsin-Madison School of Pharmacy
- 2006 Honorable Mention, APhA-APRS Postgraduate Best Paper Award, San Francisco, CA
- 2005 & 2006 Oscar Rennebohm Award for Outstanding Teaching, University of Wisconsin-Madison (two-time awardee)
- 2005-2006 Vilas Travel Fellowship for 2005-2006, University of Wisconsin-Madison
- 1998 Honorable Discharge from Military Services, Ministry of National Defense, Taiwan
- 1994-1996 Scholarship for Outstanding Master Students, Ministry of Education, Taiwan

Awards Given to Students Whose Work Was Supervised

(* denotes an Auburn University graduate student status at the time of the award)

- 2019 International Conference on Pharmacoepidemiology & Therapeutic Risk Management (ICPE) Student Scholarship, 2019.
Fahim SM*, Hsu CH, Qian J, Chou C. Impact of antidiabetic medication use on breast cancer diagnostic characteristics. Poster presentation at the ISPE 35th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE). Philadelphia, PA, August 2019.
- 2019 International Conference on Pharmacoepidemiology & Therapeutic Risk Management (ICPE) Student Scholarship, 2019.
Huo N*, Chou C, Garza KB, Qian J. Trends and factors associated with respiratory allergy conditions among U.S. prostate cancer patients in 2007-2016. Poster presentation at the ISPE 35th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE). Philadelphia, PA, August 2019.
- 2019 International Conference on Pharmacoepidemiology & Therapeutic Risk Management (ICPE) Student Scholarship, 2019.
Zeng Z*, Mishuk AU*, Edwards K*, Chou C, Qian J. Safety of dietary supplements use among cancer patients: a systematic review of clinical trials. Poster presentation at the ISPE 35th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE). Philadelphia, PA, August 2019.
- 2018 Best poster, American Association of Colleges of Pharmacy, Social and Administrative Sciences, 2018.
Aref HAT*, Garza KB, Westrick SC, Chou C, Worthington D, Kam F. Effects of online video and text educational material on knowledge, perceptions, and intention of Men B vaccination among college students. Poster presentation at 2018 AACP Annual Meeting. Boston, MA, July 2018.

- 2017 International Conference on Pharmacoepidemiology & Therapeutic Risk Management (ICPE) Student Travel Scholarship, 2017.
Rahman M*, Howard G, Qian J, Chou C, Hansen RA. Disparities in the appropriateness of medication use: analysis of the REGARDS study. Podium Presentation at 2017 ICPE. Montreal, Canada, August 2017.
- 2017 First Place, Computer Science and Software Engineering, Graduate Engineering Research Showcase, Auburn University.
Hollingsworth ML*, Fox BI, Chou C, Hansen RA. Using a web-based tool to rapidly generate health outcome data to train artificial intelligence. Presentation at the Graduate Engineering Showcase, Auburn University, November 2017.

INVITED SPEAKING

- 2019 “Connecting the dots across the continuum of transitional care for the uninsured” Week of Service: k(no)w poverty? Auburn University Honors College. Auburn, AL
- 2019 “Transitions of care: how can we advance healthcare in vulnerable populations by utilizing pharmacists' expertise?” Auburn University Research Council. Auburn, AL
- 2018 “Applications of randomized controlled trials in outcomes research.” China Medical University College of Pharmacy, Taichung, Taiwan
- 2018 “Measuring quality of care using administrative databases.” China Medical University Hospital Department of Pharmacy, Taichung, Taiwan
- 2016 “Health policy evaluation and its impact on health disparities research.” University of Kentucky College of Medicine Center for Health Services Research, Texas A&M Health Science Center Irma Lerma Rangel College of Pharmacy, Florida State University College of Medicine, Washington State University College of Pharmacy
- 2016 “Evaluating impact of health policy and practice on vulnerable populations.” Taipei Medical University College of Pharmacy, Taipei, Taiwan
- 2016 “Effect of health policy and practice on vulnerable populations.” Keynote speaker for the National Symposium of Social and Administrative Pharmacy held at China Medical University, Taichung, Taiwan
- 2014 “Bridging research and policy in diabetes at the University of Chicago.” American Medical Association, Chicago, IL
- 2014 “Engaging patients by using low-cost technology.” CVS Caremark, Northbrook, IL
- 2012 “In pursuit of an efficient healthcare system and desired health outcomes for all.” The University of Chicago Department of Medicine Section of General Internal Medicine, Chicago, IL
- 2010 “Health services research in pharmacy.” China Medical University College of Pharmacy and China Medical University Hospital Department of Pharmacy, Taichung, Taiwan

PROFESSIONAL SOCIETIES

American Public Health Association
American Society of Clinical Oncology
Society for Medical Decision Making
American Society of Health Economists
International Society for Pharmacoeconomics and Outcomes Research
International Society for Pharmacoepidemiology
AcademyHealth
American Pharmacists Association
American Association of Colleges of Pharmacy
Alabama Pharmacy Association

APPENDIX 3

| BUDGET AND SPENDING DRAFT OF | | | | | |
|-------------------------------------|---|---------------|---------------|-------------------|-------------------|
| COLLABORATION RESEARCH | | | | | |
| ACTIVITY | | UNIT | VOLUME | PRICE (Rp) | TOTAL (Rp) |
| MATERIAL | | | | | |
| | Stationary | Pax | 1 | 300.000 | 300.000 |
| | Photocopy of questionnaire and informed consent | Unit | 30 | 10.000 | 300.000 |
| | | | | | - |
| DATA COLLECTION | | | | | - |
| | FGD of Research preparation | Pax | 1 | 400.000 | 400.000 |
| | Research Team Fees | Person | 3 | 2.000.000 | 6.000.000 |
| EQUIPMENT RENT | | | | | - |
| | Permit and ethical clearance | Unit | 1 | 1.000.000 | 1.000.000 |
| | Research Object | Unit | 30 | 100.000 | 3.000.000 |
| | Research Transport | OK (times) | 10 | 100.000 | 1.000.000 |
| | | | | | - |
| DATA ANALYSIS | | | | | - |
| | Data Processing Fees | Per Research | 1 | 1.500.000 | 1.500.000 |
| | ROUND TRIP CKG-TPE TICKET | Person | 1 | 20.000.000 | 20.000.000 |
| | ROUND TRIP TIKET CKG- JOG | Person | 1 | 5.000.000 | 5.000.000 |
| | LOCAL TRANSPORTATION (Car, Fuel, Driver) | Day | 5 | 1.000.000 | 5.000.000 |
| | VISA | Pax | 1 | 1.000.000 | 1.000.000 |
| | ACCOMODATION | Day | 5 | 800.000 | 4.000.000 |
| | CONSUMPTION (5 x 3 x5) | Day x Times x | 75 | 80.000 | 6.000.000 |

| | | | | | |
|---|--|--------|---|------------|-------------------|
| | | Person | | | |
| | HOSPITALITY | Pax | 1 | 2.500.000 | 2.500.000 |
| | | | | | - |
| REPORTING, OBLIGATIONS, AND ADDITIONAL | | | | | - |
| | Secretariat / administration the Researcher Fees | Pax | 1 | 1.000.000 | 1.000.000 |
| | Per diem Meeting Outside the Office | P/D | 5 | 500.000 | 2.500.000 |
| | Meeting consumption costs | P/D | 5 | 300.000 | 1.500.000 |
| | Article Publication in International Journals | Pax | 1 | 3.000.000 | 3.000.000 |
| | International Seminar (oral / poster) | Pax | 1 | 5.000.000 | 5.000.000 |
| | Design and application development | Pax | 1 | 10.000.000 | 10.000.000 |
| TOTAL | | | | | 80.000.000 |