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Positions:

- 2020- Professor with Tenure and Graduate Faculty in Pharmaceutical Health Outcomes and Policy, University of Houston, College of Pharmacy
- 2011-2020 Associate professor with Tenure and Graduate Faculty in Pharmaceutical Health Outcomes and Policy, University of Houston, College of Pharmacy
- 2006-2011 Assistant Professor and Graduate Faculty in Pharmacy Administration, University of Houston, College of Pharmacy
- 1997-2001 Assistant Professor in Pharmacology, Guangzhou Medical College, P.R. China

Education:

- 2001-2005 University of Georgia College of Pharmacy, Athens, GA, USA
Ph. D. in Health Service Research
- 1994-1997 Hunan Medical University, China, Master of Science in Pharmacology
- 1989-1994 Hunan Medical University, China, Medical Degree in General Medicine

1. Research, Scholarship and Other Creative Productivity

1a. Research Proposals

1a.1. Research Proposal Funded (External):

- 1) Principal Investigators: **Hua Chen**
Co-investigator: Chadi Calarge, Wenyaw Chan, Austin De La Cruz
Title: Effectiveness of metformin for weight control in pediatric patients on SGA
Funding Agency: **NIH**
Amount Requested: **\$275,000**
Grant Period: 11/1/2020-10/31/2022
Role and contribution: Principal Investigator, 90%

- 2) Principal Investigators: **Hua Chen**
Co-investigator: Harold Farber, Marc Fleming
Title: Safety of using opioids in children and adolescents with asthma
Funding Agency: **AHRQ**
Amount Requested: **\$100,000**
Grant Period: 7/1/2019-6/30/2021
Role and contribution: Principal Investigator, 90%

- 3) Principal Investigators: **Hua Chen**
Co-investigator: Paul Rowan, Michael Johnson
Title: Does access to Patient Centered Medical Home (PCMH) reduce racial and ethnicity disparities in the care for pediatric major depressive disorders
Funding Agency: **AHRQ**
Amount Requested: **\$100,000**
Grant Period: 9/1/2017-3/1/2020
Role and contribution: Principal Investigator, 90%

- 4) Principal Investigators: Susan Abughosh, **Hua Chen**
Co-investigator: N/A
Title: Drug utilization and medication adherence among patients with Hepatic Encephalopathy enrolled in a Medicare advantage plan and predictors of hospital readmission
Funding Agency: Valeant Pharmaceuticals
Amount Requested: **\$174,000**
Grant Period: 6/01/2018-5/31/2019
Role and contribution: Co-Principal Investigator, 50%

- 5) Principal Investigators: Mathew Walnut
Co-investigator: Susan Abughosh, **Hua Chen**, Marc Fleming, Michael Johnson
Title: Risk of Thrombosis and Bleeding in Patients on Warfarin or Apixaban and Concomitant Anti-arrhythmic Medications
Funding Agency: Bristol-Myers Squibb/Pfizer
Amount Requested: **\$207,548**
Grant Period: 1/1/2017 – 1/1/2019

Role and contribution: Co-Investigator, 8.33%

- 6) Principal Investigators: Rajender Aparasu
Co-investigator: Ryan Carnahan, **Hua Chen**, Michael Johnson, Holy Holmes
Title: Anticholinergics and Cognitive Decline in the Elderly with Depression
Funding Agency: **AHRQ**
Amount Requested: **\$855,532**
Grant Period: 8/1/2012-7/31/2017
Role and contribution: Co-Investigator, 10%

- 7) Principal Investigators: **Hua Chen**
Co-investigator: N/A
Title: The definition, utilization, and development of long term psychotropic polypharmacy in children and adolescents
Funding Agency: PHRMA FOUNDATION
Amount Requested: **\$60,000**
Grant Period: 1/1/ 2010 – 12/31/2012
Role and contribution: Principal Investigator, 100%

- 8) Principal Investigators: Michael Johnson
Co-investigator: **Hua Chen**, Rajender Aparasu
Title: Outcomes of Angiogenesis Receptor Blocker Use for Heart Failure in the Elderly
Funding Agency: **AHRQ**
Amount Requested: **\$100,000**
Grant Period: 7/1/2008 – 6/30/2011
Role and contribution: Co-Investigator, 10%

- 9) Principal Investigators: Rajender Aparasu
Co-investigator: **Hua Chen**, Michael Johnson
Title: Impact of Atypical Antipsychotic Use on Health Care Utilization in the Elderly
Funding Agency: **AHRQ**
Amount Requested: **\$100,000**
Grant Period: 3/1/2008 – 8/31/ 2010
Role and contribution: Co-Investigator, 10%

- 10) Principal Investigators: **Hua Chen**
Co-investigator: Rajender Aparasu, Michael Johnson
Title: The impact of the FDA antidepressant black box warning on psychiatric practice
Funding Agency: **AHRQ**
Amount Requested: **\$100,000**
Grant Period: 3/1/2007 – 9/30/2009
Role and contribution: Principal Investigator, 70%

- 11) Principal Investigators: **Hua Chen**
Co-investigator: N/A
Title: The impact of the FDA antidepressant black box warning on the utilization of psychotherapy, psychotropic medications, and antidepressant follow-up care among children and adolescents.
Funding Agency: AACP
Amount Requested: **\$ 10,000**

Grant Period: 12/31/ 2006 – 12/1/ 2007
Role and contribution: Principal Investigator, 100%

1a.2. Research Proposal Funded (Internal):

12) Principal Investigators: **Hua Chen**

Co-investigator: N/A

Title: Building a Data Platform to Assess the Impact of the Patient Centered Medical Home (PCMH) on Disparities in Pediatric Mental Health Care.

Funding Agency: University of Houston-Grant to Enhance and Advance Research (GEAR)

Amount Requested: **\$ 30,000**

Grant Period: 6/1/2017-5/30/2018

Role and contribution: Principal Investigator, 100%

13) Principal Investigators: **Hua Chen**

Co-investigator: N/A

Title: Adverse drug events associated with the off-label uses of the second generation antipsychotic, antidepressant and anticonvulsant medications: An analysis of Food and Drug Administration MedWatch database.

Funding Agency: University of Houston New Faculty Research Award (Chen)

Amount Requested: **\$ 6,000**

Grant Period: 2/1/2006 – 8/30/2006

Role and contribution: Principal Investigator, 100%

1b. Journal Articles

First author or Corresponding author

- 1) Nair AA, Farber HJ, Chen H. Utilization of opioid versus non-opioid analgesics in Medicaid and CHIP enrolled children with current asthma. *Pharmacoepidemiol Drug Saf.* 2021 Jul 29;. doi: 10.1002/pds.5336. [Epub ahead of print] PubMed PMID: 34322934.
- 2) Chen H, Upadhyay N, Lyu N, Rowan PJ. Association of Primary and Behavioral Health Integrated Care Upon Pediatric Mental Disorder Treatment. *Acad Pediatr.* 2021 Jun 1;. doi: 10.1016/j.acap.2021.05.021. [Epub ahead of print] PubMed PMID: 34087480.
- 3) Earla JR, Abughosh S, Chen H. Association of the Healthcare Effectiveness Data and Information Set (HEDIS) Follow-Up Care Measures and Medication Adherence Among Medicaid Insured Children with ADHD. *J Atten Disord.* 2021 Jan 12;:1087054720986929. doi: 10.1177/1087054720986929. [Epub ahead of print] PubMed PMID: 33435795.
- 4) Yucel A, Sanyal S, Essien EJ, Mgbere O, Aparasu R, Bhatara VS, Alonzo JP, Chen H. Racial/ethnic differences in treatment quality among youth with primary care provider-initiated versus mental health specialist-initiated care for major depressive disorders. *Child Adolesc Ment Health.* 2020 Feb;25(1):28-35. doi: 10.1111/camh.12359. Epub 2019 Dec 5. PubMed PMID: 32285643.
- 5) Upadhyay N, Patel A, Chan W, Aparasu RR, Ochoa-Perez M, Sherer JT, Sanyal S, Chen H. Reversibility of psychotropic medication induced weight gain among children

and adolescents with bipolar disorders. *Psychiatry Res.* 2019 Jun;276:151-159. doi: 10.1016/j.psychres.2019.05.005. Epub 2019 May 5. PubMed PMID: 31085419.

- 6) Upadhyay N, Aparasu R, Rowan PJ, Fleming ML, Balkrishnan R, Chen H. The association between geographic access to providers and the treatment quality of pediatric depression. *J Affect Disord.* 2019 Jun 15;253:162-170. doi: 10.1016/j.jad.2019.04.091. Epub 2019 Apr 22. PubMed PMID: 31035217.
- 7) Medhekar R, Fujimoto K, Aparasu RR, Bhatara VS, Johnson ML, Alonzo JP, Schwarzwald HL, Chen H. Physician care coordination and the use of psychotropic polypharmacy in the management of pediatric mental disorders. *J Manag Care Spec Pharm.* 2019 Jan; 25(1):29-38. doi: 10.18553/jmcp.2019.25.1.029. PubMed PMID: 30589632.
- 8) Yucel A, Essien EJ, Sanyal S, Mgbere O, Aparasu RR, Bhatara VS, Alonzo JP, Chen H. Racial/ethnic differences in the treatment of adolescent major depressive disorders (MDD) across healthcare providers participating in the Medicaid program. *J Affect Disord.* 2018 Aug 1; 235:155-161. doi: 10.1016/j.jad.2018.04.045. Epub 2018 Apr 6. PubMed PMID: 29656260.
- 9) Medhekar R, Aparasu R, Bhatara V, Johnson M, Alonzo J, Schwarzwald H, Chen H. Risk factors of psychotropic polypharmacy in the treatment of children and adolescents with psychiatric disorders. *Res Social Adm Pharm.* 2019 Apr;15(4):395-403. doi: 10.1016/j.sapharm.2018.06.005. Epub 2018 Jun 13. PubMed PMID: 29929905.
- 10) Upadhyay N, Chen H, Mgbere O, Bhatara VS, Aparasu RR. The impact of pharmacotherapy on substance use in adolescents with attention-deficit/hyperactivity disorder: variations across subtypes. *Subst Use Misuse.* 2017 Aug 24; 52(10):1266-1274. doi: 10.1080/10826084.2016.1273955. Epub 2017 Mar 21. PubMed PMID: 28323525.
- 11) Patel A, Medhekar R, Ochoa-Perez M, Aparasu RR, Chan W, Sherer JT, Alonzo J, Chen H. Care provision and prescribing practices of physicians treating children and adolescents with adhd. *Psychiatr Serv.* 2017 Jul 1; 68(7):681-688. doi: 10.1176/appi.ps.201600130. Epub 2017 Feb 15. PubMed PMID: 28196459.
- 12) Patel A, Chan W, Aparasu RR, Ochoa-Perez M, Sherer JT, Medhekar R, Chen H. Effect of psychopharmacotherapy on body mass index among children and adolescents with bipolar disorders. *J Child Adolesc Psychopharmacol.* 2017 May; 27(4):349-358. doi: 10.1089/cap.2016.0133. Epub 2017 Apr 19. PubMed PMID: 28422528.
- 13) Bhowmik D, Aparasu RR, Rajan SS, Sherer JT, Ochoa-Perez M, Chen H. Risk of manic switch associated with antidepressant therapy in pediatric bipolar depression. *J Child Adolesc Psychopharmacol.* 2014 Dec; 24(10):551-61. doi: 10.1089/cap.2014.0028. PubMed PMID: 25470655.
- 14) Chen H, Mehta S, Aparasu R, Patel A, Ochoa-Perez M. Comparative effectiveness of monotherapy with mood stabilizers versus second generation (atypical) antipsychotics for the treatment of bipolar disorder in children and adolescents. *Pharmacoepidemiol Drug Saf.* 2014 Mar; 23(3):299-308. doi: 10.1002/pds.3568. PubMed PMID: 24459113.

- 15) Bhowmik D, Aparasu RR, Rajan SS, Sherer JT, Ochoa-Perez M, Chen H. The utilization of psychopharmacological treatment and medication adherence among Medicaid enrolled children and adolescents with bipolar depression. *J Affect Disord.* 2013 Sep 5; 150(2):424-9. doi: 10.1016/j.jad.2013.04.034. PubMed PMID: 23747210.
- 16) Chen H, Patel A, Sherer J, Aparasu R. The definition and prevalence of pediatric psychotropic polypharmacy. *Psychiatr Serv.* 2011 Dec; 62(12):1450-5. doi: 10.1176/appi.ps.000642011. PubMed PMID: 22193792.
- 17) Chen H, Kennedy WK, Dorfman JH, Fincham JE, Reeves J, Martin BC. The effect of adjunctive mood stabilizers on antipsychotic utilization pattern and health resource utilization for Medicaid enrollees with schizophrenia. *Curr Med Res Opin.* 2007 Jun; 23(6):1351-65. PubMed PMID: 17559734.
- 18) Chen H, Suda KJ, Turpin RS, Pai MP, Bearden DT, Garey KW. High- versus low-dose fluconazole therapy for empiric treatment of suspected invasive candidiasis among high-risk patients in the intensive care unit: a cost-effectiveness analysis. *Curr Med Res Opin.* 2007 May; 23(5):1057-65. PubMed PMID: 17519072.
- 19) Chen H, Reeves JH, Fincham JE, Kennedy WK, Dorfman JH, Martin BC. Off-label use of antidepressant, anticonvulsant, and antipsychotic medications among Georgia Medicaid enrollees in 2001. *J Clin Psychiatry.* 2006 Jun; 67(6):972-82. PubMed PMID: 16848658.
- 20) Chen H, Deshpande AD, Jiang R, Martin BC. An epidemiological investigation of off-label anticonvulsant drug use in the Georgia Medicaid population. *Pharmacoepidemiol Drug Saf.* 2005 Sep; 14(9):629-38. PubMed PMID: 15597329.
- 21) Chen H, Yu QS, Guo ZG. High density lipoproteins enhanced antiaggregating activity of nitric oxide derived from bovine aortal endothelial cells. *Sheng Li Xue Bao.* 2000 Feb; 52(1):81-4. PubMed PMID: 11971177.
- 22) Chen H, Guo ZG. Nitric oxide derived from endothelial cells inhibits Na⁺/H⁺ exchange in rabbit platelets activated by thrombin. *Zhongguo Yao Li Xue Bao.* 1999 Apr; 20(4):333-7. PubMed PMID: 10452119.
- 23) Zeng S, Guo ZG, Chen H. Mobilization of intracellular Ca²⁺ modulates activation of Na⁺/H⁺ exchange in thrombin-stimulated platelets. *Zhongguo Yao Li Xue Bao.* 1998 Mar; 19(2):151-4. PubMed PMID: 10374640.

Co-author

- 24) Kachru N, Holmes HM, Johnson ML, Chen H, Aparasu RR. Antimuscarinic use among older adults with dementia and overactive bladder: a Medicare beneficiaries study. *Curr Med Res Opin.* 2021 Aug;37(8):1303-1313. doi: 10.1080/03007995.2021.1920899. Epub 2021 May 13. PubMed PMID: 33890538.
- 25) Kachru N, Holmes HM, Johnson ML, Chen H, Aparasu RR. Comparative risk of adverse outcomes associated with nonselective and selective antimuscarinic medications in older

adults with dementia and overactive bladder. *Int J Geriatr Psychiatry*. 2021 May;36(5):684-696. doi: 10.1002/gps.5467. Epub 2020 Nov 18. PubMed PMID: 33169433.

- 26) Earla JR, Hutton GJ, Thornton DJ, Chen H, Johnson ML, Aparasu RR. Factors associated with oral fingolimod use over injectable disease-modifying agent use in multiple sclerosis. *Exploratory Research in Clinical and Social Pharmacy* 2, 100021
- 27) Earla JR, Hutton GJ, Thornton DJ, Chen H, Johnson ML, Aparasu RR. Comparative treatment effectiveness of oral fingolimod and conventional injectable disease-modifying agents in multiple sclerosis. *Pharmacotherapy*. 2021 May;41(5):440-450. doi: 10.1002/phar.2517. Epub 2021 Mar 18. PubMed PMID: 33641232.
- 28) Varisco TJ, Abughosh S, Chen H, Cho SK, Fleming ML, Ziedonis D, Thornton D. Switching pharmacies leads to gaps in medication possession in individuals treated with buprenorphine. *J Am Pharm Assoc (2003)*. 2021 Apr 24;. doi: 10.1016/j.japh.2021.04.014. [Epub ahead of print] PubMed PMID: 34016547.
- 29) Hoang JM, Upadhyay N, Dike DN, Lee J, Johnson ML, Cleeland CS, Mendoza T, Chen H, Trivedi MV. Patient-reported outcomes in light of supportive medications in treatment-naïve lung cancer patients. *Support Care Cancer*. 2020 Apr;28(4):1809-1816. doi: 10.1007/s00520-019-05004-8. Epub 2019 Jul 23. PubMed PMID: 31338641..
- 30) Vadhariya A, Chen H, Serna O, Zamil H, Abughosh SM. A retrospective study of drug utilization and hospital readmissions among Medicare patients with hepatic encephalopathy. *Medicine (Baltimore)*. 2020 Apr;99(16):e19603. doi: 10.1097/MD.00000000000019603. PubMed PMID: 32311928; PubMed Central PMCID: PMC7220267.
- 31) Chatterjee S, Bali V, Carnahan RM, Chen H, Johnson ML, Aparasu RR. Anticholinergic burden and risk of cognitive impairment in elderly nursing home residents with depression. *Res Social Adm Pharm*. 2020 Mar;16(3):329-335. doi: 10.1016/j.sapharm.2019.05.020. Epub 2019 May 28. PubMed PMID: 31182419.
- 32) Wang X, Chen H, Essien EJ, Wu J, Serna O, Paranjpe R, Abughosh S. Risk of Cardiovascular Outcomes and Antihypertensive Triple Combination Therapy Among Elderly Patients with Hypertension Enrolled in a Medicare Advantage Plan (MAP). *Am J Cardiovasc Drugs*. 2020 Dec;20(6):591-602. doi: 10.1007/s40256-020-00395-0. PubMed PMID: 32043245.
- 33) Chekani F, Holmes HM, Johnson ML, Chen H, Sherer JT, Aparasu RR. Risk of Mortality Associated With Atypical Antipsychotic use: A National Cohort Study of Older Adults With Depression and Parkinson's Disease. *Am J Geriatr Psychiatry*. 2020 Oct;28(10):1079-1088. doi: 10.1016/j.jagp.2020.01.193. Epub 2020 Feb 7. PubMed PMID: 32147383.
- 34) Chekani F, Holmes HM, Johnson ML, Chen H, Sherer JT, Aparasu RR. Use of Atypical Antipsychotics in Long-Term Care Residents with Parkinson's Disease and Comorbid Depression. *Drug Healthc Patient Saf*. 2020;12:23-30. doi: 10.2147/DHPS.S226486. eCollection 2020. PubMed PMID: 32099480; PubMed Central PMCID: PMC6999551.

- 35) Chekani F, Holmes HM, Johnson ML, Chen H, Sherer JT, Aparasu RR. Risk of pneumonia associated with atypical antipsychotic use in nursing home residents with Parkinson's disease. *J Psychiatr Res.* 2019 Oct;117:116-121. doi: 10.1016/j.jpsychires.2019.07.005. Epub 2019 Jul 26. PubMed PMID: 31377483.
- 36) Wanat MA, Wang X, Paranjpe R, Chen H, Johnson ML, Fleming ML, Abughosh SM. Warfarin vs. apixaban in nonvalvular atrial fibrillation, and analysis by concomitant antiarrhythmic medication use: A national retrospective study. *Res Pract Thromb Haemost.* 2019 Oct;3(4):674-683. doi: 10.1002/rth2.12221. eCollection 2019 Oct. PubMed PMID: 31624787; PubMed Central PMCID: PMC6781914.
- 37) Wang X, Chen H, Essien E, Wu J, Serna O, Paranjpe R, Abughosh S. Medication Adherence to Antihypertensive Triple-Combination Therapy Among Patients Enrolled in a Medicare Advantage Plan. *J Manag Care Spec Pharm.* 2019 Jun;25(6):678-686. doi: 10.18553/jmcp.2019.25.6.678. PubMed PMID: 31134857.
- 38) Sharma M, Holmes HM, Mehta HB, Chen H, Aparasu RR, Shih YT, Giordano SH, Johnson ML. The concomitant use of tyrosine kinase inhibitors and proton pump inhibitors: Prevalence, predictors, and impact on survival and discontinuation of therapy in older adults with cancer. *Cancer.* 2019 Apr 1;125(7):1155-1162. doi: 10.1002/cncr.31917. Epub 2019 Jan 3. PubMed PMID: 30605231; PubMed Central PMCID: PMC6420393.
- 39) Li YH, Mgbere O, Abughosh S, Chen H, Cuccaro P, Smesny A, Essien EJ. Assessment of sexually transmitted disease/HIV risk among young African Americans: comparison of self-perceived and epidemiological risks utilizing ecodevelopmental theory. *HIV AIDS (Auckl).* 2019; 11:31-44. doi: 10.2147/HIV.S189482. eCollection 2019. PubMed PMID: 30863188; PubMed Central PMCID: PMC6388744
- 40) Rizk E, Swan JT, Cheon O, Colavecchia AC, Bui LN, Kash BA, Chokshi SP, Chen H, Johnson ML, Liebl MG, Fink E. Quality indicators to measure the effect of opioid stewardship interventions in hospital and emergency department settings. *Am J Health Syst Pharm.* 2019 Feb 1; 76(4):225-235. doi: 10.1093/ajhp/zxy042. PubMed PMID: 30715186
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- 42) Li YH, Cuccaro P, Chen H, Abughosh S, Mehta PD, Essien EJ. HIV-related sexual decisions made by African-American adolescents living in different family structures: study from an ecodevelopmental perspective. *HIV AIDS (Auckl).* 2018 Mar 9; 10:19-31. doi: 10.2147/HIV.S144594. eCollection 2018. PubMed PMID: 29576732; PubMed Central PMCID: PMC5851572.
- 43) Ferries EA, Gilson AM, Aparasu RR, Chen H, Johnson ML, Fleming ML. The Prevalence of and Factors Associated With Receiving Concurrent Controlled Substance

Prescriptions. *Subst Use Misuse*. 2017 Oct 15; 52(12):1639-1645. doi: 10.1080/10826084.2017.1298617. Epub 2017 May 30. PubMed PMID: 28557587.

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- 45) Chatterjee S, Bali V, Carnahan RM, Chen H, Johnson ML, Aparasu RR. Risk of mortality associated with anticholinergic use in elderly nursing home residents with depression. *Drugs Aging*. 2017 Sep; 34(9):691-700. doi: 10.1007/s40266-017-0475-5. PubMed PMID: 28656508.
- 46) Li YH, Mgbere O, Abughosh S, Chen H, Cuccaro P, Essien EJ. Modeling ecodevelopmental context of sexually transmitted disease/HIV risk and protective behaviors among African-American adolescents. *HIV AIDS (Auckl)*. 2017;9:119-135. doi: 10.2147/HIV.S130930. eCollection 2017. PubMed PMID: 28694710; PubMed Central PMCID: PMC5490434.
- 47) Wu IH, Chen H, Bordnick P, Essien EJ, Johnson M, Peters RJ, Wang X, Abughosh SM. comparison of suicide attempts/behaviors following smoking cessation treatments among schizophrenic smokers. *Arch Psychiatr Nurs*. 2017 Feb; 31(1):62-67. doi: 10.1016/j.apnu.2016.08.001. PubMed PMID: 28104060.
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- 55) Bali V, Johnson ML, Chen H, Fleming ML, Holmes HM, Aparasu RR. Comparative cognitive profile of second-generation antidepressants in elderly nursing home residents with depression. *Ann Pharmacother*. 2016 Feb; 50(2):96-105. doi: 10.1177/1060028015618978. PubMed PMID: 26610873; PubMed Central PMCID: PMC4743756.
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- 61) Do T, Medhekar R, Bhat R, Chen H, Niravath P, Trivedi MV. The risk of febrile neutropenia and need for G-CSF primary prophylaxis with the docetaxel and cyclophosphamide regimen in early-stage breast cancer patients: a meta-analysis. *Breast Cancer Res Treat*. 2015 Oct; 153(3):591-7. doi: 10.1007/s10549-015-3531-z. Review. PubMed PMID: 26337685.
- 62) Chitnis AS, Aparasu RR, Chen H, Kunik ME, Schulz PE, Johnson ML. Use of statins and risk of dementia in heart failure: A retrospective cohort study. *Drugs Aging*. 2015 Sep; 32(9):743-54. doi: 10.1007/s40266-015-0295-4. PubMed PMID: 26363909.

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- 64) Kamble P, Chen H, Johnson ML, Bhatara V, Aparasu RR. Concurrent use of stimulants and second-generation antipsychotics among children with ADHD enrolled in Medicaid. *Psychiatr Serv*. 2015 Apr 1; 66(4):404-10. doi: 10.1176/appi.ps.201300391. PubMed PMID: 25828983.
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- 74) Chitnis, A., Sharma, M., Yadav, R., Chen, H., Aparasu, R., & Johnson, M. L. (2009). Comparative effectiveness of individual Angiotensin Converting Enzyme Inhibitors in patients with chronic heart failure. *value in health, 3*(12), A142.

- 75) Parikh, N. M., Morgan, R., Kunik, M., Schulz, P., Chen, H., Aparasu, R., . . . Johnson, M. (2009). Risk factors for dementia in elderly patients with diabetes mellitus. *Value in Health*, 3(12), A99.
- 76) Chen, H., Nwangwu, A., Aparasu, R., Sun, S. X., & Lee, K. Y. (2008). The impact of Medicare new drug benefit (part d) on the utilization of psychotropic medications and consequent out of pocket expenditure for elderly. *Value in Health*, 3(11), A13.
- 77) Chen, H., & Sudharshan, L. (2008). The sustained diagnosis of attention-deficit hyperactivity disorder from childhood to adulthood: a Medicaid study. *Value in Health*, 6(11), A339.
- 78) Sudharshan, L., Sharma, M., Obajuluwa, T., & Chen, H. (2008). Risk of hospitalization associated with beta-blocker therapy in patients of chronic heart failure and diabetes: a medic aid study. *Value in Health*, 3(11), A187.
- 79) Chen, H. (2006). Economic evaluation in us health care principal and application. *American Journal of Pharmaceutical Education*, 70(5), AB2.
- 80) Jano, E., Chen, H., Johnson, M. L., & Aparasu, R. R. (2007). Datapoints: Antipsychotic utilization and expenditure trends among elderly persons. *Psychiatric Services*, 58(11), 1400-1400.
- 81) Obajuluwa, T., Raju, A., Pandey, G., Donga, P., Chen, H., & Aparasu, R. (2007). Drug utilization patterns among children with acute otitis media from 2003 to 2004 in the United States. *Research in Social and Administrative Pharmacy*, 3(3), e12.

1d. Other Indicators of Scholarly Creative Work

1d.1. Award

- 1) Finalist of the Best Paper Award 2021 for the Journal of Child and Adolescent Mental Health
- 2) A bronze medal winning abstract at the AMCP Managed Care & Specialty Pharmacy Annual Meeting, San Diego, California, March 25-28, 2019
- 3) Best poster presentation award at Houston Medication Safety Symposium 2017.
- 4) A silver medal winning abstract at the AMCP Managed Care & Specialty Pharmacy Annual Meeting, Denver, Colorado, March 27-30, 2017.
- 5) Best poster award at ISPOR 22st Annual International Meeting May 20-24, 2017 • Boston, MA
- 6) Best podium presentation award at ISPOR 18th Annual International Meeting, New Orleans, LA, USA, May 18-23, 2013.
- 7) Best podium presentation award at ISPOR 17th Annual International Meeting, Washington, D.C., USA, June 2-6, 2012.

- 8) Best poster presentation award at ISPOR 13th Annual international meeting, May 3-7, 2008 Toronto, ON, Canada.
- 9) First place poster presentation award at the 8th annual outcomes research symposium held by the Kelsey Research Foundation.
- 10) Best new investigator podium presentation award at the ISPOR 11th Annual European Congress, Athens, Greece, November 8-11, 2008.

2d.2. Media quotes

- 1) Report cited Hua Chen's publication on off-label prescribing, by Evelyn Pringle, Opednews, www.opednews.com, 2006 (Aug 31)
- 2) Lee Shearer from Athens Banner-Herald published an article "off-label drug uses common" discussing Hua Chen's discovery on off-label prescribing, 2006 (Aug 1)
- 3) Report on Hua Chen's publication on off-label prescribing at Doctor's Guide Channels, www.docguide.com, 2006 (July 25)
- 4) Report on Hua Chen's publication on off-label prescribing, by Jim Rosack, Psychiatric News, 2006 (June 30)
- 5) Report cited Hua Chen's comment on off-label prescribing, by John Dillon, Pharmacy Practice News, 2006 (June 8)

2. Teaching and Student Learning:

2a. Course and Program Development and/ or Revision

- 1) Pharmacoepidemiology (PHCA 7316). 3 credit hours
The purpose of the Pharmacoepidemiology course is to 1) introduce the principals of pharmacoepidemiology 2) provide students with the skills to design, conduct, analyze and rate investigations that evaluate drug utilization and its associated outcomes.
- 2) Advanced Research Design (PHCA 8302). 3 credit hours
The purpose of the Advanced Research Methods Course is to 1) Expose PhD students to advanced research methods currently utilized within the PHOP department and 2) to develop a draft PhD dissertation proposal in NIH R03 format.
- 3) Management I (PHAR 4260). 2 credit hours
This course examines the contemporary healthcare delivery system in the US and the pharmacist role within that system. Major legislation that has shaped the structure and financing of healthcare and opportunities for pharmacist will be reviewed. Students will become familiar with various concepts, systems, and processes that are continually evolving as we move closer toward clinically integrated health care. Opportunities for pharmacist in the diverse field of pharmacy such as retail chain/independent pharmacy, institutional hospital/long-term care/ambulatory pharmacy, manage care/pharmaceutical industry, and public health will be discussed.

2b. Course Instruction

2b.1. Pharmacy Professional Instruction

- 1) Management I (PHAR 4260: US Health Care System) Course coordinator 2008-2011
2 credit hours (University of Houston College of Pharmacy)
Offered: Spring 2006, 2007, 2008, 2009, 2010, 2011 (Required Courses)
Enrollment: 110-120 doctor of pharmacy students (40% effort)
- 2) Management II (PHAR 5261: Financial Management).
2 credit hours (University of Houston College of Pharmacy)
Offered: Fall 2006, 2007, 2008 (Required Courses)
Enrollment: 120 doctor of pharmacy students (20% effort)
- 3) Literature Evaluation/ Research Design/ Statistics/ Epidemiology (PHAR 5325)
3 credit hours (University of Houston College of Pharmacy)
Offered: Fall 2019, 2020, 2021 (Required Courses)
Enrollment: 120 doctor of pharmacy students (5% effort)

2b.2. Pharmacy Care Administration Graduate Instruction (PhD & Master)

- 1) Advance Research Design (PHCA 8302) Course coordinator
3 credit hours (University of Houston College of Pharmacy)
Offered: Spring, (required Courses)
Enrollment: 5 PCA PhD students in 2010 (80% effort)
6 PCA PhD students in 2011 (80% effort)

5 PCA PhD students in 2012 (100% effort)
2 PCA PhD students in 2013 (100% effort)
8 PCA PhD students in 2014 (100% effort)
2 PHOP PhD students in 2015 (100% effort)
2 PHOP PhD students in 2016 (100% effort)
5 PHOP PhD students in 2018 (60% effort)
9 PHOP PhD students in 2019 (60% effort)
6 PHOP PhD students in 2020 (100% effort)

2) Pharmacoepidemiology (PHCA 6316) Course coordinator
3 credit hours (University of Houston College of Pharmacy)
Offered: Fall, (required Courses)
Enrollment: 11 PCA graduate students in 2007 (90% effort)
14 PCA graduate students in 2008 (90% effort)
16 PCA graduate students in 2009 (40% effort)
11 PCA graduate students in 2014 (100% effort)
4 PHOP PhD students in 2015 (100% effort)
4 PHOP PhD students in 2016 (100% effort)
5 PHOP PhD students in 2017 (100% effort)
9 PHOP PhD students in 2018 (100% effort)
6 PHOP PhD students in 2019 (100% effort)
3 PHOP PhD students in 2019 (100% effort)

3) Seminar in Comparative Effectiveness Research (PHCA 6180 – PHCA 7180 – PHCA 8180) Course coordinator
1 credit hour (University of Houston College of Pharmacy)
Offered: Fall, 2012 (Required course)
Enrollment: 30 PCA graduate students (80% effort)

4) Pharmacy Administration & Management II (PHCA 6306)
3 credit hours (University of Houston College of Pharmacy)
Offered: Spring 2006, 2007, 2008, 2009 (Required Courses)
Enrollment: 7 PCA graduate students in 2006 (30% effort)
16 PCA graduate students in 2007 (30% effort)
16 PCA graduate students in 2008 (30% effort)
20 PCA graduate students in 2009 (20% effort)

5) Principals and Practices of Community Health (PHCA 6398)
2 credit hours (University of Houston College of Pharmacy)
Offered: Summer 2006, 2008 (Elected Courses)
Enrollment: 9 doctor of pharmacy students (20% effort)
5 doctor of pharmacy students and PharmD Ms students (20% effort)
15 BSPS students and 2 PCA graduate students (10% effort)

2c. Other Evidence of Teaching, Student Learning, and the Scholarship of Teaching

2c.1. Graduate Student Tutorial

2c.1.1. Ph.D. Student Dissertation Advisory Committee Chair & Major Advisor

- 1) Defense: Summer, 2021 EeVien Low (PhD of PHOP)
Dissertation: Physical and Mental Health Among Mexican American Children and Adolescents Living on the Texas-Mexico Border
- 2) Defense: Summer, 2021 Abhishek Nair (PhD of PHOP)
Dissertation: Opioid Analgesic Utilization in Pediatric Population with Acute Pain
- 3) Defense: Summer, 2018 Navneet Upadhyay (PhD of PHOP)
Dissertation: Impact of geographic access to provider on pediatric mental health care
- 4) Defense: Fall, 2016 Rohan Medhekar (PhD of PHOP)
Dissertation: Physician patient-sharing networks and prescription of psychotropic polypharmacy in the treatment of children and adolescents with mental disorders.
- 5) Defense: Summer, 2016 Aylin Yucel (PhD of PHOP)
Dissertation: The racial and ethnic disparities in pathway to pediatric major depressive disorder (MDD) care and its impact on the receipt of mdd treatment
- 6) Defense: Summer, 2015 Ayush Patel (PhD of PHOP)
Dissertation: Impact of psychopharmacotherapy on body mass index (BMI) of bipolar children and adolescents.
- 7) Defense: Fall, 2012 Debajyoti Bhowmik (PhD of Pharmacy Adm)
Dissertation: Safety and Effectiveness of Antidepressant in Pediatric Bipolar Depression

2c.1.2. M.S. Student Theses Advisory Committee Chair & Major Advisor

- 1) Defense: Summer 2014 Navneet Upadhyay (Master of Pharmacy Adm)
Thesis: ADHD and medication for ADHD pharmacotherapy in prediction of substance use among adolescents with ADHD: A national comorbidity survey-adolescent supplement study.
- 2) Defense: Summer 2012 Digvijay Yeola (Master of Pharmacy Adm)
Thesis: Bipolar Disorder in Children and Adolescents with Attention Deficit/Hyperactivity Disorder.
- 3) Defense: Summer 2011 Ayush Patel (Master of Pharmacy Adm)
Thesis: Utilization patterns, adherence and time to hospitalization of bipolar children and adolescents on polypharmacy.
- 4) Defense: Spring 2011 Wan-Yu Tseng (Master of Pharmacy Adm)
Thesis: Rates of discontinuation, switch, persistence, and hospitalization of fluoxetine, sertraline, citalopram among children and adolescents with major depressive disorder
- 5) Defense: Summer 2011 Sonam Mehta (Master of Pharmacy Adm)
Thesis: Monotherapy with mood stabilizers versus atypical antipsychotics for the treatment of bipolar disorder in children and adolescents.

- 6) Defense: Summer 2010 Ankur patel (Master of Pharmacy Adm)
Thesis: Validation of long-term psychotropic polypharmacy definition and to assess the extent of this practice in children and adolescents
- 7) Defense: Summer 2009 Darshan Pawar (Master of Pharmacy Adm)
Thesis: The impact of Medicare Part D on the prevalence of potentially inappropriate medication use among elderly Medicare beneficiaries.
- 8) Defense: Summer 2010 Jeong eun Seo (Master of Pharmacy Adm)
Thesis: Drug utilization and adherence of psychotropic polypharmacy among children and adolescents with bipolar disorder in Medicaid data
- 9) Defense: Summer Aug 2009 Debajyoti Bhowmik (Master of Pharmacy Adm)
Thesis: Risk of adverse events with the use of antidepressant and antipsychotic combination therapy in children and adolescents: a Medicaid population study
- 10) Defense: Summer 2009 Vishal Saundankar (Master of Pharmacy Adm)
Thesis: Impact of lipid clinic on attainment of lipid, glycemic and blood pressure goals in patients with type 2 diabetes and coronary heart disease.
- 11) Defense: Summer 2008 Lavanya Sudharshan (Master of Pharmacy Adm)
Thesis: ADHD: A natural experiment from childhood to adulthood.
- 12) Defense: Summer 2008 Sham Chaudhari (Master of Pharmacy Adm)
Thesis: Out of pocket burden for elderly Medicare beneficiaries before and after implementation of Medicare Part D
- 13) Defense: Summer 2008 Taiwo obajuluwa (Master of Pharmacy Adm)
Thesis: Medicare Part D: the effect on the potentially inappropriate psychotropic medication use in the elderly.
- 14) Defense: Spring 2007 Afam Nwangwu (Master of Pharmacy Adm)
Thesis: The impact of Medicare Part D on the utilization and average percentage out of pocket expenditures of psychotropic medications for the elderly Medicare beneficiaries

2c.1.3. Ph.D. Student Dissertation Advisory Committee Member

- 1) Defense : Summer 2020 Sanika Rege (PhD of PHOP)
Concomitant use of atypical antipsychotics and cholinesterase inhibitors among older adults with dementia
- 2) Defense : Summer 2020 Jagdesb Earla (PhD of PHOP)
Disease modifying agents use and associated outcomes in multiple sclerosis
- 3) Defense : Fall 2017 Xin Wang (PhD of PHOP)
Medication adherence to antihypertensive combination therapy
- 4) Defense : Fall 2017 Manvi Sharma (PhD of PHOP)

The concomitant use of tyrosine kinase inhibitors and proton pump inhibitors: prevalence, predictors and its impact on survival and discontinuation of therapy in older adults with cancer

- 5) Defense : Fall 2017 Sneha D. Sura (PhD of PHOP)
Optimizing antipsychotic use across nursing homes: implications for dementia care presenter
- 6) Defense : Fall 2017 Anthony Colavecchia (PhD of PHOP)
Effectiveness and safety of four-factor prothrombin complex and fresh frozen plasma in cardiac surgery
- 7) Defense : Summer 2017 Nandita Kachru (PhD of PHOP)
Adverse Outcomes of antimuscarinics in elderly dementia
- 8) Defense : Summer 2017 Ya-Huei Li (PhD of PHOP)
A study of the association between social ecological contexts and Hiv-related sexual behaviors among African-American adolescents
- 9) Defense : Summer 2017 Farid Chekani (PhD of PHOP)
Safety of atypical antipsychotics in elderly patients with Parkinson's disease
- 10) Defense : Summer 2015 Erin Ferris (PhD of PHOP)
Prevalence and predictors of multiple provider episodes in Texas: An epidemiological analysis of prescription drug monitoring program data
- 11) Defense : Summer 2014 Parul Gupta (PhD of PHOP)
Risk of hospitalization among elderly heart failure patients initiating beta-blockers (BBS) or angiotensin-converting enzyme inhibitors (ACEI) - A comparative effectiveness analysis
- 12) Defense : Summer 2014 I-Hsuan Wu(PhD of PHOP)
Comparative effectiveness of smoking cessation medications among schizophrenic smokers
- 13) Defense : Spring 2014 Hemalkumar B. Mehta (PhD of PHOP)
Comparative effectiveness of angiotensin-converting enzyme inhibitors and angiotensin receptor blockers for the risk of dementia in patients with diabetes and hypertension
- 14) Defense : Fall 2013 Satabdi Chatterjee (PhD of Pharmacy Adm)
Comparison of effectiveness of smoking cessation medications among obese smokers
- 15) Defense : Summer 2013 Mo Yang (PhD of Pharmacy Adm)
Safety profile of anticholinergic use in the elderly
- 16) Defense : Fall 2012 Sandhya Mehta (PhD of Pharmacy Adm)
Dementia in older adults: predicting and preventing risk
- 17) Defense : Fall 2012 Abhishek Chitnis (PhD of Pharmacy Adm)

Angiotensin-converting enzyme inhibitors/angiotensin receptor blockers, statins and dementia in patients with heart failure

- 18) Defense :Fall 2012 Pravin Kamble (PhD of Pharmacy Adm)
Concurrent Stimulant and Atypical Antipsychotic Use in Children and Adolescents

2c.1.4. M.S. Student Theses Advisory Committee Member

- 1) Defense: Spring, 2013 Jennifer Pham (Master of Pharmacy Adm)
Thesis: Daptomycin versus vancomycin for empiric treatment of methicillin-resistant s. aureus among hospitalized patients: A cost-minimization analysis
- 2) Defense: Summer, 2013 Xin Wang (Master of Pharmacy Adm)
Thesis: Predictors of Successful Outcome among Adult Smokers using Smoking Cessation Medication
- 3) Defense: Summer, 2012 Sneha Sura (Master of Pharmacy Adm)
Thesis: Prevalence, predictors and healthcare impact of anticholinergic medication use in elderly dementia patients
- 4) Defense: Spring 2011 Rituparna Bhattacharya (Master of Pharmacy Adm)
Thesis: Impact of pediatric obesity on anxiety and depression
- 5) Defense: Spring 2011 J. Philip Zweifel (Master of Pharmacy Adm)
Thesis: The role of procalcitonin to optimize antimicrobial therapy: A meta-analysis
- 6) Defense: Summer 2010 Sandipan Bhattacharjee (Master of Pharmacy Adm)
Thesis: Comparative safety of stimulant and atomoxetine in children with attention deficit / hyperactivity disorder
- 7) Defense: Summer 2010 Satabdi Chatterjee (Master of Pharmacy Adm)
Thesis: Comparative safety outcomes of atypical antipsychotics in older adults: A retrospective claims data analysis
- 8) Defense: Summer 2010 Swapna U. Karkare (Master of Pharmacy Adm)
Thesis: Antidepressant persistence and associated healthcare expenditures in children with depression
- 9) Defense: Summer 2010 Swetha Rao Palli (Master of Pharmacy Adm)
Thesis: Psychotropic polypharmacy in children and adolescents with attention deficit/ hyperactivity disorder
- 10) Defense: Summer 2009 Saurabh P. Nagar (Master of Pharmacy Adm)
Thesis: Functional impairment and associated costs in children and adolescents with Depression
- 11) Defense: Summer 2009 Ravi Kant Yadav (Master of Pharmacy Adm)
Thesis: Effect of statins on the development of dementia in elderly patients with diabetes
- 12) Defense: Summer 2009 Rishi J Desai (Master of Pharmacy Adm)
Thesis: Comparative effectiveness of individual angiotensin receptor blockers in

veterans with chronic heart failure.

- 13) Defense: Summer 2009 Sandhya Mehta (Master of Pharmacy Adm)
Thesis: Comparative safety of atypical and typical antipsychotics in older adults.
- 14) Defense: Summer 2009 Abhishek Chitnis (Master of Pharmacy Adm)
Thesis: Comparative effectiveness of individual angiotensin converting enzyme inhibitors in heart failure using propensity score approach.
- 15) Defense: Summer 2009 Rohit Goyal (Master of Pharmacy Adm)
Thesis: Stress and quality of life of parents with children having neuro- developmental disorders.
- 16) Defense: Summer 2008 Pravin Kamble (Master of Pharmacy Adm)
Thesis: Antipsychotic drug use among the elderly nursing home residents in the United States
- 17) Defense: Summer 2008 Shivani Shah (Master of Pharmacy Adm)
Thesis: The association of pharmacy treatment with outcomes in patients with congestive heart failure
- 18) Defense: Summer 2008 Niraj Parikh (Master of Pharmacy Adm)
Thesis: Hypertension, antihypertensive medications and dementia in elderly patients with diabetes
- 19) Defense: Summer 2008 Manvi Sharma (Master of Pharmacy Adm)
Thesis: Comparative effectiveness of individual angiotensin-converting enzymes in patients with chronic heart failure.
- 20) Defense: Summer 2008 Aditya Dandu Raju (Master of Pharmacy Adm)
Thesis: Effect of new institutional guidelines of erythropoietin stimulating agents on the treatment patterns and costs in anemic lymphoma patients.
- 21) Defense: Summer 2007 Elda Jano (Master of Pharmacy Adm)
Thesis: Prevalence, determinants and healthcare impact of antipsychotic use in the elderly
- 22) Defense: Summer 2006 Paresh Amrutkar (Master of Pharmacy Adm)
Thesis: Efficacy, safety and economic evaluation of continuous intravenous insulin protocol in patients undergoing cardiac surgery.

2c.1.5. Graduate Student Major Advisor

Current PhD students: Abhishek Nair, Swarnava Sanyal, Ning Lyu

2c.2. Guest lecture

Pharma Politics & Policy. University of Texas at Houston School of Public Health. Spring 2006 provided a three-hour lecture entitled "Controlling prescription drug costs in the United States"

3. Service

3a. Service to the Department, College and University

3a.1. University committees:

- 1) Committee member on the Pharmacy Dean Review Committee, 2014
- 2) Committee member on the University of Houston Institutional Review Board (IRB #1), 2009-2017
- 3) Committee member of the University of Houston Health Professions Advisory Committee. 2009-2011

3a.2. College committees:

- 1) Chair of PharmD Affairs Committee 2019-
- 2) Committee member of PharmD Affairs Committee 2019
- 3) Committee member of HBMS2 Pharmacy Research Lab Design Committee 2014
- 4) Committee member of the College Assistant Dean for Graduate Programs search committee 2014
- 5) Committee member of the College Faculty Excellence Award Selection Committee. 2008-2009
- 6) Committee member of the College Assessment Committee. 2012-2015
- 7) Committee member of the College Graduate Study Committee. 2012-2020
- 8) Committee member of the College Research Study Committee. 2012-2016

3a.3. Department committees:

- 1) Chair of faculty search committee at the department of pharmaceutical health policy and outcome research, UH college of Pharmacy 2016-2017
- 2) Chair of graduate education committee at the department of pharmaceutical health policy and outcome research, UH college of Pharmacy 2015-2018
- 3) Chair of faculty search committee at the department of clinical sciences and administration, UH college of Pharmacy 2012
- 4) Four new faculty search committee at the department of clinical sciences and administration, UH college of Pharmacy 2008-2010
- 5) Graduate advisory committee at the department of clinical sciences and administration, UH college of Pharmacy: responsible in student evaluation and graduate program evaluation

3b. Service to the Profession/Academic Discipline

3b.1. Service to the Professional Association

- 1) Asia Consortium Advisory Committee member of International Society for Pharmacoeconomics and Outcome Research (**ISPOR**) Asia Consortium Advisory Committee
- 2) Member of American Academy of Child & Adolescent Psychiatry

3b.2. Grant Panel Reviewer

- 1) Standing Committee Member of Agency for Healthcare Research and Quality Healthcare Safety and Quality Improvement Research (HSQR) Study Section 2016-2020
- 2) Panel member of Agency for Healthcare Research and Quality Healthcare Special Emphasis Panel: Patient Safety Learning Lab (P30) 2015
- 3) Ad hoc member of Agency for Healthcare Research and Quality Healthcare Safety and Quality Improvement Research (HSQR) Study Section 2014-2016
- 4) American Heart Association's Behavioral Science Population Peer Review Study Group 2012-2014, 2017
- 5) Panel member of National Institutes of Health (NIH) National Institute on Drug Abuse Special Emphasis Panel: Enhancing Practice Improvement in Community-Based Care for Prevention and Treatment of Drug Abuse, Council ZDA1 GXM-A (27), March-April, 2006.

3b.3. Book Reviewer

Economic Evaluation in U.S. Health Care: Principles and Applications. (softcover, 176pp)

3b.4. Editorial Board Member

The Fifth Editorial Board Member of *Journal of China Pharmacy* China Hospital Association, Ministry of Public Health, China, (2006-Present)

3b.5. Journal Reviewer

- 1) JAMA Psychiatry
- 2) Journal of Public health
- 3) Child and Adolescent psychopharmacology
- 4) Human Psychopharmacology: Clinical and Experimental
- 5) Psychiatric service
- 6) American Journal of Managed Care Pharmacy (Recognized as one of the Top 20% Reviewers)
- 7) Value in Health
- 8) PLoS Medicine
- 9) American Journal of Pharmaceutical Education

3b.6. International Conference Reviewer

Abstract Review Committee Member for the ISPOR 9th Annual European Congress (June 23- July 7, 2006)