

**CURRICULUM VITAE  
SUDHA XIRASAGAR**

**CONTACT INFORMATION:**

Address: University of South Carolina  
Arnold School of Public Health  
Dept. Of Health Services Policy and Management  
915 Greene Street, Columbia SC 29208  
Phone: 803.576.6093  
Fax: 803.777.1836  
E-mail: sxirasagar@sc.edu

**EDUCATION**

2002	Ph.D.	Health Administration, Arnold School of Public Health, University of South Carolina, Columbia, SC
1982	M.B.B.S.	Doctor of Medicine, Bangalore University, Bangalore, India

**PROFESSIONAL EXPERIENCE**

Aug 2020 -	Graduate Programs Director
Aug 2020 -	Doctoral Program Director
Jan 2016 to Present	Professor, Health Services Policy and Management University of South Carolina, Arnold School of Public Health
Aug 2010 to Dec 2016	Associate Professor, Health Services Policy and Management University of South Carolina, Arnold School of Public Health
Aug 2013 to Aug 2015	Director, MHA program
Aug 2009 to Sep 2010	Director, MHA Program Department of Health Services Policy and Management
Aug 2006 to July 2009	Director, MHA Professional Format Program Department of Health Services Policy and Management
2003-06	Associate Director, MHA Program Department of Health Services Policy and Management Arnold School of Public Health, University of South Carolina
2006 to 2010	Assistant Professor, Health Services Policy and Management University of South Carolina, Arnold School of Public Health

2002 to July 2006	Research Assistant Professor, Health Services Policy and Management University of South Carolina, Arnold School of Public Health
1997 to 2002	Ph.D student and Research Assistant, Health Services Policy and Management Arnold School of Public Health, University of South Carolina
1989 to 1997	Director, Research and Training, Indian Society of Health Administrators, Bangalore, India
1989	Senior Medical Officer, National Tuberculosis Institute, Government of India, Bangalore, India
1985 to 1988	Medical Officer, National Tuberculosis Institute, Government of India, Bangalore, India
1983 to 1985	Medical Officer, Ministry of Labor, Beedi Workers Welfare Fund Dispensary Kerala, India
1982 to 1983	Resident, Department of Internal Medicine, Victoria Hospital, Bangalore, India.

## PUBLICATIONS

### *Journal Articles (Mentored student/post-doctoral co-authors underlined)*

1. Kwaan MR, Wu, Y., Ren Y., **Xirasagar S.** Ostomy surgery for patients with large bowel obstruction in the modern era: A Nationwide Inpatient Sample study". J Gastroint Surg. Accepted July 2022. (*From funded study as PI. Role: Senior author and analysis lead*)
2. Kwaan MR, Wu, Y., Ren Y., **Xirasagar S.** Prompt Intervention in Large Bowel Obstruction Management: A Nationwide Inpatient Analysis. Amer J Surg (*From funded study as PI. Role: Senior author and data analysis lead*) <https://doi.org/10.1016/j.amjsurg.2022.07.002>, July 19, 2022
3. Hung SH, **Xirasagar S.**, Chang WW, Cheng YF, Kuo NW, Lin HC. Association of Age-related Macular Degeneration with Prior Hyperthyroidism and Hypothyroidism: A Case-Control Study. Accepted April 2022, J Personalized Med
4. Wu, Y., Ren, Y., Wu, D., **Xirasagar, S.**, Johnson, J. Using D-dimer as a biomarker to predict disease severity and clinical outcomes with a large COVID-10 inpatient cohort: A machine learning approach. Institute of Electrical and Electronic Engineers – Proceedings of the International Conference on Healthcare Informatics, 2022.
5. Kuang T.M., **Xirasagar S.**, Cheng Y.F. Lin H.C. Association of Primary Open Angle Glaucoma with Tinnitus: A Nationwide Population-based Study. J Glaucoma 2022;31(4):224-227.
6. Lin HC, Xirasagar S, Wang CH, Cheng YF, Yang TH. Increased risk of major depressive disorder following tinnitus: A population-based study. Frontiers in Neurology, 2022; March 21, 2022 | <https://doi.org/10.3389/fneur.2022.836842>

7. Kuang, T.-M.T.; Xirasagar,S.; Lee,W.-Y.; Cheng, Y.-F.; Kuo,N.-W.; Lin, H.-C. Absence of an Association between Macular Degeneration and Young-Onset Dementia. *J. Pers. Med.* **2022**, *12*, 291. <https://doi.org/10.3390/jpm12020291>
8. Yang, T.H., **Xirasagar, S.**, Cheng, Y.F., Kuo N.W., Lin, H.C. Association of Cervical spondylosis with vertigo: A population-based case control study. *Laryngoscope* 2021;131(2):E625-630. <https://doi.org/10.1002/lary.28715> (2021 IF:3.325, *Clarivate Analytics*) (IF – Impact Factor)
9. Cheng YF, **Xirasagar S**, Yang TH, Wu CS, Kao YW, Lin HC. Risk of early onset dementia among persons with tinnitus: a retrospective case control study. *Sci Rep.* 2021; 11: 13399. Published online 2021 Jun 28. doi: 10.1038/s41598-021-92802-y (2020 5-year IF: 5.13, *Clarivate Analytics*) (Role: significant contributing author)
10. Cheng, YF, **Xirasagar, S**, Liu, TC, Wang, CH, Lin, HC. Association of Hearing Impairment with Land Transport Accidents: A Nationwide Population-based Study. *Int J Audiol* 2021 Nov 12:1-5. doi: 10.1080/14992027.2021.1998677. Online ahead of print. PMID: 34772305. (2020 5-year IF: 5.13, *Clarivate Analytics*) (Role: significant contributing author)
11. Yang, T.H., **Xirasagar S**, Wu, C.S., Lin H.C. Ten-year Trends in the Incidence of Microtia: A Nationwide Population-based Study from Taiwan. *Eur Arch Oto-Rhino-Laryngol*, 2021 Nov; 278(11):4315-4319. doi: 10.1007/s00405-021-07014-x. Epub 2021 Jul 26.PMID: 34309752. (Role: significant contributing author)
12. Lin HC, **Xirasagar, S.**, Cheng, Y.F., Yang TH, Wu CS, Kao, Y.W., Yang, T.H. A Nationwide Population-based Study on the Association Between Land Transport Accident and Peripheral Vestibular Disorders. *Int J Environ Res Pub Health*, 2021 Jun 18;18(12):6570. doi: 10.3390/ijerph18126570. (Role: significant contributing author) (2020 IF: 3.39)
13. Yang TH, **Xirasagar S**, Cheng YF, Wu CS, Kuo NW, Lin HC. Peripheral Vestibular Disorders: Nationwide Evidence from Taiwan. *Laryngoscope.* 2021 Mar;131(3):639-643. doi: 10.1002/lary.28877. (Epub 2020 Jul 4) PMID: 32621538. (2021 IF:3.325, *Clarivate Analytics*) (Role: significant contributing author)
14. Kwaan, M.R., Ren, Y, Wu, Y., **Xirasagar, S**. Colonic stent use and outcomes in the United States – A Nationwide Inpatient Sample study. *J Surg Res*; 2021 Sep;265:168-179. doi: 10.1016/j.jss.2021.03.048. (From a funded study as PI. Role: Senior author and data analysis lead) (2020 IF=2.192)
15. Yang TH, **Xirasagar, S**, Hwang C, Lin HC. Increased Risk of Injury following a Diagnosis of Vertigo: A Population-based Study. *Laryngoscope* 2021;131(7):1633-38. <https://doi.org/10.1002/lary.29519> (Role: Significant contributing author) (2020 IF:3.325, *Clarivate Analytics*)
16. Yang, T.H., **Xirasagar S**, Cheng Y.F., Wu, C.S., Kao Y.W., Lin H.C. A Nationwide Population-based Study on the Incidence of Parapharyngeal and Retropharyngeal Abscess – A 10-year study, 2021, *Int J Env Res Public Health* 2021 Jan 25;18(3):1049. doi: 10.3390/ijerph18031049.PMID: 33504039 (2019 IF=3.39) (Role: Significant contributing author)
17. Cheng YF, **Xirasagar S**, Kuo NW, Chung SD, Lin HC. Association of erectile dysfunction with tinnitus: a nationwide population-based study. *Sci Rep* 2021;11(1):6982. doi: 10.1038/s41598-021-86441-6. PMID:33772046. (2020 5-year IF: 5.13, *Clarivate Analytics*) (Role: Significant contributing author)

18. Cheng, Y.F., **Xirasagar, S.**, Yang, T.H., Wu, C.S., Kuo N.W., Lin, H.C. A Population-Based Case-control Study of the Association between Cervical Spondylosis and Tinnitus, *Int J Audiol.* 2021 Mar;60(3):227-231. (epub 2020, DOI: [10.1080/14992027.2020.1817996](https://doi.org/10.1080/14992027.2020.1817996). PMID: 33504039. (2020 5-year IF: 5.13, Clarivate Analytics) (Role: Significant contributing author)
19. **Xirasagar S**, Wu Y, Heidari KH, Zhou J, Tsai MH, Hardin JW, Wronski RA, Hurley D, Jauch EC, Sen S. Does Emergency Medical Services Transportation Mitigate Post-stroke Discharge Disability? A Prospective Observational Study. *J Gen Intern Med* 2020; **35**, 3173–3180. <https://doi.org/10.1007/s11606-020-06114-4> (Role: Lead and corresponding author, funded study as PI)
20. Badgett, R, **Xirasagar, S**, Jonker, L: "Hospital workforce engagement and inpatient mortality rate: Findings from English National Health Service Staff Survey data," *J Gen Intern Med.* 2020 Dec;35(12):3465-3470. doi: 10.1007/s11606-020-06045-0. Epub 2020 Oct 13. PMID: 33051836
21. Yang, T.H., **Xirasagar, S.**, Cheng YF, Wu CS, Kao YW, Shia BC, Lin HC. Cervical Spondylosis is Associated with Obstructive Sleep Apnea. *Sleep Medicine*, Sleep Med. 2020 Jul;71:54-58. doi: 10.1016/j.sleep.2020.03.025. Epub 2020 Apr 3. PMID: 32502850
22. Kuang TM, **Xirasagar S**, Kao YW, Shia BC, Lin HC. Association of Systemic Hypertension with Primary Open-Angle Glaucoma: A Population-Based Case-control Study. *Amer J Ophthal* 2020; Oct;218:99-104. doi: 10.1016/j.ajo.2020.04.020. Epub 2020 Apr 28. PMID: 32360343.
23. Yang TH, **Xirasagar S**, Cheng YF, Wu CS, Kao YW, Shia BC, Lin HC. Malignant Otitis Externa is Associated with Diabetes: A Population-Based Case-Control Study. *Ann Otol Rhinol Laryngol.* 2020 Jun;129(6):585-590. doi: 10.1177/0003489419901139. Epub 2020 Jan 24. PMID: 31976744
24. Chen, S.C., **Xirasagar, S.**, Liu, J.C., Kao Y.W., Shia, B.C., Yang, T.H., Lin, H.C.. A Population-based Study of Healthcare Resource Utilization in Patients with Mitral Valve Prolapse. *Int J Environ Res Public Health*, 2020. Mar 3;17(5):1622. doi: 10.3390/ijerph17051622. PMID: 32138217
25. **Xirasagar S**, Tsai MH, Wu Y, Zhang J, Clugstone S, de Groen PC. Colorectal cancer prevention by a CLEAR-principles based protocol: An observational study.. *Gastroint Endosc*, 2020; **91(4):905-916** E4. <https://doi.org/10.1016/j.gie.2019.11.043>. PMID: 31816316.
26. Cheng YF, **Xirasagar S**, Yang TH, Wu CS, Kao YW, Shia BC, Lin HC. Increased risk of tinnitus following a trigeminal neuralgia diagnosis: a one-year follow-up study. *J Headache Pain.* 2020 May 6;21(1):46. doi: 10.1186/s10194-020-01121-6. PMID: 32375642
27. Yang, T.H., **Xirasagar, S.**, Cheng YF, Wu CS, Kao YW, Shia BC, Lin, H.C. Association between pioglitazone use and head and neck cancer: Population based case-control study. *Head Neck.* 2020; Apr;42(4):653-659; DOI 10.1002/hed.26046. [Epub 2019 ahead of print]. PMID: 31833151 (Contributing author)
28. **Xirasagar S**, Tsai M, Heidari K, Wu Y, Hardin JW, Hurley D, Jauch EC, Sen S. Why Acute Ischemic Stroke Patients in the United States Use or Do Not Use Emergency Medical Services Transport? Findings of an Inpatient Survey. *BMC Health Serv Res*, 2019 Dec 3;19(1):929. doi: 10.1186/s12913-019-4741-6. PMID:6892139

29. **Xirasagar S**, de Groen P.C. Commentary on Bretthauer et al.: From colorectal cancer screening guidelines to headlines: Beware! *Ann Int Med*, 2019 May 21;170(10):733-34. PMID: 31108524
30. Lin, H.C., Hung, S.H., **Xirasagar, S.** Su, C.H. A Case-control Study of the Association between Sialolithiasis and Osteoporosis. *Clin Otolaryngol* 2019;44(3):343-348. (Contributing author)
31. Lin, H.C., Kao, L.T., **Xirasagar, S.** Huang, C.Y., "Association between Pioglitazone Use and Prostate Cancer: A Population-based Case-control Study". *J Clin Pharmacol*, 2019; 59(3): 344-349. <https://doi.org/10.1002/jcph.1326> (Contributing author)
32. Kang, J.H., **Xirasagar, S.**, Lin, H.C., Fao, P.F, Sung, L.C. Risk of Adverse Outcomes in Patients with Rheumatoid Disease Hospitalized for Stroke - A Cross-sectional Study. *Clin Rheumatol* 2018; 37:2917-26 (Contributing author)
33. **Xirasagar, S.**, de Groen, P.C. Colonoscopy and Colorectal Cancer Mortality in the Veterans Affairs Health Care System. *Ann Int Med*, 2018; 169(6):423. (Commentary)
34. Powell, D.J., **Xirasagar, S.** Khan, M.M., Hardin, J.W., Odutolu, O. Antenatal care satisfaction in a developing country: a study from Nigeria. *BMC Public Health*, 2018; 18:368. <https://doi.org/10.1186/s12889-018-5285-0> (Senior author on student led research)
35. Tsai, M.H., **Xirasagar, S.**, Carroll, S., Bryan, C.S., Gallagher, P.J., Davis, K. Jauch, E.C. Reducing High-users' Visits to the Emergency Department (ED) by a Primary Care Intervention for the Uninsured – A Retrospective Study. *Inquiry* 2018; 55: Doi:10.1177/0046958018763917 (Corresponding author and funded project PI).
36. Aljabri D, Dumitrascu A, Burton C, White L, Khan M, **Xirasagar S**, Horner R, Naessens J. Patient Portal Adoption and Use by Hospitalized Cancer Patients: A Retrospective Study of its Impact on Adverse Events, Utilization, and Patient Satisfaction. *BMC Med Inform Decis Mak*, 2018; 18(70): July 27: <https://doi.org/10.1186/s12911-018-0644-4>.
37. Lin, H.C., **Xirasagar, S.**, Lee, H.C., Chen, C.H. "Association of Alzheimer's Disease with Hepatitis C among Patients with Bipolar Disorder" *PLoSOne*, June 16, 2017. Online at <https://doi.org/10.1371/journal.pone.0179312>
38. Tsai, M.H., **Xirasagar, S.**, de Groen, P.C. Persisting racial disparities in colorectal cancer screening among persons with a family history of colorectal cancer. *Journal of Racial and Ethnic Disparities in Healthcare* 2017 Aug 15. doi: 10.1007/s40615-017-0418-1. [Epub ahead of print] (Senior author on mentored post-doctoral fellow research, NIH funded study with self as PI).
39. Lin, H.C., Kao, L.T., **Xirasagar, S.** Huang, S.W., Huang, C.Y. "Gastroesophageal Reflux Disease is Associated with Subsequent Rheumatoid Arthritis Occurrence-A Retrospective Cohort Study from Taiwan", *British Medical Journal Open* December 2017 <http://dx.doi.org/10.1136/bmjopen-2017-016667>.
40. Ho, J.D., **Xirasagar, S.**, Lin, H.C., Huang, C.C. Neovascular Age-related Macular Degeneration Is Associated with Cataract Surgery. *Acta Ophthalmologica*, 2017 Jul 3. doi: 10.1111/aos.13511. [Epub ahead of print].

41. Lin H.C., Chung, S.D., **Xirasagar, S.**, Kao, L.T., Huang, C.C., Lee, H.C. Patients Receiving Androgen Deprivation Therapy for Prostate Cancer Have an Increased Risk of Depressive Disorder. *PLOS One*. 2017 Mar 2;12(3):e0173266. doi: 10.1371/journal.pone.0173266. eCollection 2017
42. Lin H.C., Chung, S.D., Tsai, M.C., Chen, C.H., **Xirasagar, S.**, Huang, C.C. Fewer Acute Respiratory Infection Episodes among Gastroesophageal Reflux Disease Patients Following Proton Pump Inhibitor Treatment. *PLOS One*. 2017 Feb 21;12(2):e0172436. doi: 10.1371/journal.pone.0172436. eCollection 2017.
43. Khang, L, Adams, S.A., Steck, S.E, Zhang J, **Xirasagar, S.**, Daguise, V.G. Travel distance to screening facilities and completion of abnormal mammogram follow-up among disadvantaged women. *Annals of Epidemiology*, 2017; 27(1):37-41. <http://dx.doi.org/10.1016/j.annepidem.2016.08.013>
44. Powell, D.O., **Xirasagar, S.** Excess Deaths among the Uninsured Before the Affordable Care Act (ACA), and Potential Post-ACA Reductions. *Journal of Public Health management and Practice*, 2017; 23(3):18-e28. doi: 10.1097/PHH.0000000000000428, Dec 22.
45. Chang, C.K., **Xirasagar, S.**, Lian, I.B., Chen, B., Hussey, J.R., Wang I.J., Chen, J.C., Lian, L.B. Provider behavior under global budgeting and policy responses: An observational study on eye care services in Taiwan. *Inquiry*. 2015. DOI: 10.1177/0046958015601826. PMID: 26324511 (Senior and corresponding author on advisee doctoral research)
46. Tsai, M.H., **Xirasagar, S.**, Li, Y.J., de Groen, P.C. Colonoscopy Screening Among Persons with a Family History of Colorectal Cancer. *Preventing Chronic Disease*, 2015. 12(5): DOI:10.5888/pcd12.140533 (Senior and corresponding author)
47. **Xirasagar, S.**, de Groen, P.C. Authors' response to Eluri et al Letter to the editor Re: Colorectal Cancer Prevention by an Optimized Colonoscopy Protocol in Routine Practice. *International Journal of Cancer* 2015; 137: 1247-48 online first February 24, 2015; DOI: 10.1002/ijc.29472.
48. Chung S.D., **Xirasagar, S.**, Lin C.C., Ling, W., Li, H.C., Lin, H.C. Increased Risk of Ischemic Stroke Among Women with Bladder Pain Syndrome/Interstitial Cystitis: A Cohort Study from Taiwan. *Neurourology & Urodynamics*, 2015 Jan; 34(1):44-9. DOI:10:1002/nau.22515. PMID: 24155221
49. Adams, S.A., Choi, S.K., Khang, L., Campbell, D., Friedman, D.B., Eberth, J.M., Glasgow, R.E., Tucker-Seeley, R., **Xirasagar, S.**, Yip, M.P., Young, V.M., Hebert, J.R. Decreased Cancer Mortality-to-Incidence Ratios with Increased Accessibility of Federally Qualified Health Centers. *Journal of Community Health*, 2015; 40(4):633-41. Online first January 30, 2015 DOI 10.1007/s10900-014-9978-8.
50. **Xirasagar, S.**, Li, Y.J., Hurley, T.G., Hardin, J.W., Tsai, M., Hurley, D., Hebert, J.R., de Groen, P.C. Colorectal Cancer Prevention by an Optimized Colonoscopy Protocol in Routine Practice *International Journal of Cancer*, 2015 Mar 15:136(6):E731-42: Epub 2014 September 30. PMID:25242510; (<http://onlinelibrary.wiley.com/doi/10.1002/ijc.29228/full>)
51. de Groen, P.C. Li, Y.J., **Xirasagar S.** Letter to the Editor, Long-term colorectal cancer mortality after adenoma removal. *New Engl J Med* 2014; 371(21): 2035. DOI: 10.1056/NEJMc1411954. PMID: 25409379

52. **Xirasagar, S., Li, Y.J.,** Hebert, J.R., Hurley T.G., Burch, J.B., Daguise, V. 2014. Reducing colorectal cancer incidence and disparities: Performance of a state-funded screening colonoscopy program for the medically indigent in South Carolina. *Advances in Public Health*, 2014; 8 pages; <http://dx.doi.org/10.1155/2014/787282>. PMID: 25705719
53. Kao, L.T., **Xirasagar, S.,** Kuo, K.H., Lin, H.C./., Chung, S.D. Weekly and Holiday-related Patterns of Panic Attacks in Panic Disorder: A Population-based Study. *PLoS One*. 2014 Jul 9;9(7):e100913. DOI:10.1371/journal.pone.0100913. eCollection 2014. PMID:25006664.
54. Soltis, S., Probst J.C., Martin AB, Hardin J.R., **Xirasagar, S.** Diagnostic and demographic differences between incarcerated and non-incarcerated youth with ADHD in South Carolina. *Journal of Attention Disorders* 2013; 21(7): 554-560. SCI Impact factor 2018:3.668
55. Pumkam, C., Bennett K.J., Probst, J.C., Hardin, J., **Xirasagar, S.** 2013. Health Care Expenditures among Working-Age Adults with Disabilities: Variations by Disability Spans. *Disability and Health Journal*, online first published July 2013; <http://dx.doi.org/10.1016/j.dhjo.2013.03.002> .
56. McCracken, J.L., Friedman, D.B., Brandt, H.M., Arp Adams, S., **Xirasagar, S.,** Ureda, J.R., Mayo, R.M., Comer, K., Evans, M., Fedrick, D., Talley, J., Broderick, M., & Hebert, J.R. 2013 Findings from the Community Health Intervention Program in South Carolina: Implications for reducing cancer-related health disparities. *Journal of Cancer Education* 28:412–419. Epub ahead of print May 5, 2013. DOI: 10.1007/s13187-013-0479-8. PMID: 23645547.
57. Li, Y.J., **Xirasagar, S.,** Pumkam, C., Krishnaswamy, M., Bennett, C.L. Vision Insurance, Eye Visits, and Vision Impairment among Working-Age Adults in the United States. *JAMA Ophthalmology*. 2013 Apr;131(4):499-506. (doi:10.1001/jamaophthalmol.2013.1165. epub ahead of print Dec 102012m) PMID 23229123 (Lead and corresponding author)
58. Baek, J.D., **Xirasagar, S.,** Stoskopf C.H., Seidman, R. 2013. Physician-targeted financial incentives and primary care physicians' self-reported ability to provide high quality primary care. *Journal of Primary Care and Community Health*, Jul 1;14(3):182-88. doi: 10.1177/2150131912462036. PMID:23799705
59. Chen, B., Restaino, J., Norris, L., **Xirasagar, S.,** Qureshi, Z., Lopez, I., Trenery, A., Murday, A., Kahn, A., Mattison, D.R., Ray, P., Sartor, O., McKoy, J., Bennett, C.L. 2012. A tale of two citizens: a state attorney general and a hematologist facilitate translation of research into FDA actions. *J Oncol Pract* DOI: 10.1200/JOP.2011.000504.
60. Bennett, C.L., Starko, K.M., Thomsen HS, Cowper S, Sartor O, Macdougall IC, Qureshi ZP, Bookstaver PB, Miller AP, Norris LB, **Xirasagar S,** et al. 2012. Linking drugs to obscure illnesses: lessons from pure red cell aplasia, nephrogenic systemic fibrosis, and Reye's syndrome. A report from the Southern Network on Adverse Reactions (SONAR). *J Gen Int Med* 27(12):1697-703. PMID: 22692632. June 13 Epub ahead of print.
61. Qureshi, Z., Bennett C.L., Sartor A.O., Norris L.B., Murday, A., **Xirasagar, S.,** Thomsen, H.S. 2012. Gadolinium Induced Nephrogenic Systemic Fibrosis, the Rise and Fall of an Iatrogenic Disease. *Clin Kidney J.* 5:82-88.

62. Chung SD, Chen KY, **Xirasagar S**, Tsai MC, Lin HC. 2012. More than 9-times increased risk for pancreatic cancer among patients with acute pancreatitis in Chinese population. *Pancreas* 20(12):41:1: 141-46. PMID: 21946811.
63. Friedman D.B., Young V.M., Freedman D.A., Adams, S.A., Brandt, H.M., **Xirasagar, S.**, Felder, T.M., Ureda, J.R., Hurley, T., Khang, L., Campbell D., Hebert, J.R. Reducing Cancer Disparities through Innovative Partnerships: A Collaboration of the South Carolina Cancer Prevention and Control Research Network and Federally Qualified Health Centers. *Journal of Cancer Education* 2012; 27:59-61. PMID:21932143.
64. Chen CH, **Xirasagar S**, Lin CC, Wang LH, Kou YR, Lin HC. 2011. Risk of adverse perinatal outcomes with antithyroid treatment during pregnancy: a nationwide population-based study. *Brit. J Ob Gynecol*;1 18(11):1365-73. doi: 10.1111/j.1471-0528.2011.03019.x. Epub 2011 May 31. PMID:21624036
65. Qureshi ZP, Sartor O, **Xirasagar S**, Liu Y, Bennett CL. 2011. Pharmaceutical Fraud and Abuse in the United States: 1996-2010. *Arch Int Med* 171(16):1503-6 (Sep 12). PMID:21911639
66. **Xirasagar, S.**, Hurley, T.G., Burch, J.F., Mansaray, A., Hardin J, Hebert, J.R. 2011. Colonoscopy Screening Rates among Patients of Colonoscopy-trained African American Primary Care Physicians. *Cancer*, 117(22): 1551-60. PMID.21523762
67. Ho, J.D., **Xirasagar, S.**, Lin, H.C. 2011. Over 9-times Increased Risk for Cancer Following Herpes Zoster Ophthalmicus: A Nationwide Population-Based Study. *Ophthalmology*, 118(6): 1076-81. January 11, 2011 Epub head of print. PMID: 21232800
68. Kang, J.H., Chung, S.D., **Xirasagar, S.**, Jaw, F.S., Lin, H.C. 2011 Increased risk of stroke in the year after a hip fracture: a population-based study from Taiwan. *Stroke* 42(2):336-341. Epub 2010 Dec 23. PMID:21183742.
69. Yang YW, Chen YH, **Xirasagar S**, Lin HC. Increased risk of stroke with bullous pemphigoid. A population-based follow-up study. *Stroke*. 2011 Feb;42(2):319-23. Epub 2010 Dec 16. PMID:21164122
70. Kang, J.H., **Xirasagar S.**, Lin, HC. 2011. Lower Mortality among Stroke Patients with Schizophrenia: A Nationwide Population-based Study. *Psychosomatic Medicine* 73(1):106-111. PMID: 20978225
71. Fu, J.C., **Xirasagar, S**, Liu, J, Probst, J.C.. 2010. Cesarean and VBAC Rates among Immigrant vs. Native-Born Women – A Retrospective Observational Study from Taiwan, *BMC Public Health* 10:548. doi:10.1186/1471-2458-10-548. PMID:20831813
72. **Xirasagar, S.**, Bennett, C.L., Hebert, J.R. 2010. Screening Colonoscopy vs. Flexible Sigmoidoscopy. Letter to the Editor. *JAMA* 304(18):2016-2017 PMID:21063009
73. **Xirasagar, S**, Fu, J.C., Liu, J, Probst, J.C., Lin, D.P. 2011. Neonatal Outcomes for Immigrant Mothers in Taiwan: Evidence for the Epidemiological Paradox. *Maternal and Child Health Journal*, 15(2):269-79. PMID:20432059
74. **Xirasagar, S.**, Hurley, T., Sros, L., Hebert, J.R. 2010. Quality and Safety of Screening



Colonoscopies Performed by Primary Care Physicians with Standby Specialist Support. *Medical Care*, 48(8):703-709. PMID:20613663

75. Diedhiou, A., Probst, J.C., Hardin, J.W., Martin, A.B., **Xirasagar, S.** Relationship Between a Reported Medical Home and Emergency Department Use Among Children with Asthma. *Medical Care Research and Review*, 67(4):450-75. E-pub ahead of print July 2010. PMID:20442339
76. **Xirasagar, S.**, Kanwat, C.P., Qu, H, Smith, L.U., Patterson, N., Shewchuk, R.M. 2010. Preventing Intentional Food Contamination in Restaurants: A Survey to Assess Restaurants' Preparedness. *Journal of Public Health Management and Practice*, 16(4):.E7-E17. PMID:20520363
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#### ***Manuscripts Under Review***

Yang TH, Xirasagar S, Cheng YF, Chen CS, Chang WP, Lin HC. Trends in the Incidence of Head and Neck Cancer: A Nationwide Population-based Study. Under review, *Cancers*

Cheng YF, Xirasagar S, Yang TH, Lin HC. Hearing Loss, Tinnitus and Sudden Deafness Among Patients with Fabry Disease: a nationwide population-based study, Under review, *Otolaryngology-Head and Neck Surgery*.

Hung SH, **Xirasagar S**, Chang WW, Cheng YF, Kuo NW, Lin HC "Association of Chronic Kidney Disease with Prior Tinnitus: A Case-Control Study" Under review, *Laryngoscope*

Cheng YF, **Xirasagar S**, Lin HC. Tinnitus and Risk of Attempted Suicide: A One Year Follow-up Study. Under review

Huang PH, **Xirasagar S**, Cheng YF, Wang CH, Lin HC. Absence of an association between tinnitus and prior hypertension. Under review.

**Xirasagar S**, Natafqi N, Corbett C. The complex drivers of medication (non)-adherence among Black patients with type 2 diabetes or hypertension – A narrative review. Under review.

Wu, Y, **Xirasagar S**, Heidari K, Sen C. Using patient care data and concurrent survey data to understand racial disparities in acute ischemic stroke outcomes. Under review.

Banerjee S, Kwaan MR, Wu, Y, Ren Y, **Xirasagar S**. Utilization and Outcomes of Colonic Stents in Acute Large Bowel Obstruction: A Nationwide Inpatient Sample Study, Under revision. (*From funded study as PI. Role: Senior and Co-corresponding author*)

Lin, H.C, Kuang, T.M., **Xirasagar, S.**, Kao, YW, Ho, J.D. Association of Neovascular Age-related Macular Degeneration with Migraine: A Population-Based Case-Control Study. Under review, *Headache*.

### **Books and Book Chapters**

Misra, P., **Xirasagar, S**. India's Health System, in Johnson, J.A. and Stoskopf C.H. (Eds.) *Comparative Health Systems*. 2<sup>nd</sup> Edition Jones and Bartlett Publishers, Boston, MA. © 2017 (in press)

**Xirasagar, S**. Misra, P. India's Health System, in Johnson, J.A. and Stoskopf C.H. (Eds.) *Comparative Health Systems*. Jones and Bartlett Publishers, Boston, MA. © 2010 pp. 237-257.

**Xirasagar, S**. Physician Leadership and Development, in Johnson, James A. (Ed.) *Health Organizations – Theory, Behavior, and Development*. Jones and Bartlett Publishers, Boston, MA. 2008 pp. 331-347.

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Sahni, A.K., **Xirasagar, S**. 1990. *Health and Development of the Tribal People in India - Present Status and Future Directions*, published by Indian Society of Health Administrators (ISHA), Bangalore, with financial support from Ministry of Science & Technology, Government of India. (Used by NGOs and

Government organizations as resource material in training health and development functionaries in tribal health and development issues.)

### ***Non-Peer Reviewed Publications***

**Xirasagar, S.**, Samuels, M.E., Curtin, T.F. 2006. Management-trained Medical Directors are Good for Community Health Centers' Clinical Outcomes. *Community Health Forum*, 7(2):34-36, National Association of Community Health Centers, Washington DC, May issue. Invited contribution.

Jagota, P., **Xirasagar, S.**, Jaigopal, M.V. 1999. Study of high-dose isoniazid and streptomycin bi-weekly in the treatment of isoniazid-resistant tuberculosis. *National TB Institute Bulletin* 1999, 35(1-4), 8-13.

**Xirasagar, S.**, Sahni, A.K. 1994. Lessons learnt from the innovative experiences of community participation in India, and their application to people's involvement for health and development of women and children, *Proceedings and Recommendations of the 3<sup>rd</sup> Regional Conference of South East Asia Regional Bureau, and International Union for Health Promotion Education, 1994*. Invited contribution.

Sahni, A.K., **Xirasagar, S.** 1994. People's involvement for health and development of women and children - Identification and Prioritization of Interventions. *Proceedings and Recommendations of 3<sup>rd</sup> Regional Conference of SEARB of the International Union for Health Promotion Education, 1994*. Invited contribution.

### ***Research Reports***

**Xirasagar, S.** Improving EMS use by South Carolina stroke patients: Racial disparities in stroke patients' use and experience of EMS and hospital emergency room services. December 2020. Contract from South Carolina Department of Health and Environmental Control, Bureau of Emergency Medical Services.

Xirasagar, S., Sen, S., Heidari, K. Wu, Y, Tsai, MH, Hardin, JW, Jauch EC. ARRIVE: Role of Ambulance Transportation in Improving Ischemic Stroke Treatment Outcomes in South Carolina. Report submitted to Genentech Inc., May 2018 (contract).

**Xirasagar, S.**, Hurley T.G., Burch J.B., Li, Y.J., Hebert, J.R., South Carolina Cancer Alliance, Cancer Control Plan Implementation Evaluation of Screening Colonoscopies on People Everywhere in South Carolina (SCOPE SC) Year 1. July 2011. Contract from South Carolina Department of Health and Environmental Control, Division of Cancer.

**Xirasagar, S.**, Shewchuk, R. 2008. Food Defense: Survey of Restaurants in South Carolina. Report to South Carolina Department of Health and Environmental Control, Columbia, SC, Sub-contract from Centers for Diseases Control and Prevention, Atlanta, GA.

Samuels, M.E., **Xirasagar, S.**, *NRHA National Survey of Critical Access Hospitals Relationships With Community Health Centers*. Report to Bureau of Primary Health Care, Health Resources and Service Administration. 2005. Contracted by the National Rural Health Association.

Samuels, M.E., **Xirasagar, S.**, Wilhide, S.D. *Model Relationships Between Rural Community Health Centers (CHCs) and Hospitals*. Report to Bureau of Primary Health Care, Health Resources and Service Administration. 2003. Contracted by the National Rural Health Association.

Glover, S. H., Stoskopf, C., Brown, T. Wheeler, F., Kim, Y.K., **Xirasagar, S.** *Small Business and Access to Health Insurers, Particularly HMOs.* Report to U. S. Small Business Administration, 2000. Funded by the U. S. Small Business Administration.

### ***Policy/Planning Documents***

*Health of the Metropolis - Bangalore, A Guide for Planners, Administrators, and Professionals.* Indian Society of Health Administrators, Bangalore, 1990. Supported by the City government and UNICEF. Compiled, edited and integrated papers presented at a conference organized to examine health status and programs in Bangalore city develop an action document.

*The Third Force in Health Care – Role of Voluntary Organizations in Health & Family Welfare in India.* Indian Society of Health Administrators, Bangalore, 1990. Supported by USAID and the Ministry of Health, Government of India. Prepared based on available literature and findings from my site visits to voluntary organizations in various studies.

### **REFEREED PRESENTATIONS AT NATIONAL SCIENTIFIC MEETINGS/PUBLISHED ABSTRACTS (Mentored postdoctoral scholar/student co-authors underlined)**

Nan Z, Wu, Y, **Xirasagar S.** Role of diet and physical activity in self-reported health status and diabetes complications among the US population with type 2 diabetes – A BRFSS-based study. American Public Health Association Annual meeting, Philadelphia, November 6-9, 2022, Boston. Oral.

Wu Y, **Xirasagar, S**, Heidari K, Sen S, Racial disparities in stroke action-taking and disability outcomes: Using patient survey data to connect the dots. American Public Health Association Annual meeting, Philadelphia, November 6-9, 2022, Boston. Oral.

Wu Y, Wu D, **Xirasagar S.** Using D-dimer as a Biomarker to Predict COVID-19 Disease Severity from Clinical Data of Hospitalized Patients: A Machine Learning Approach. IEEE International Conference on Health Informatics (IEEE ICHI 2022). June 11th–14th, 2022. Rochester, MN. Oral.

Kwaan MR, Wu, Y, Zhu, C.R, Heidari, K, **Xirasagar S.** Long-term outcomes after colonic stent placement: a population-based analysis": Annual Scientific meeting of the American Society of Colon and Rectal Surgeons, April 30-May 4, 2022. Poster.

Kwaan MR, Wu Y, Ren, Y, **Xirasagar S.** Prompt intervention in large bowel obstruction management: A nationwide inpatient analysis. Western Surgical Association Annual Meeting, Nov 6-9, 2021, Indian Wells, CA. Oral.

Wu, Y, Heidari K, Sen S, **Xirasagar S**, “Racial Disparities in Stroke Care and Associated Discharge Disability Outcomes,” American Public Health Association Annual Meeting and Expo, Oct 24-27, 2021, Denver, CO. Student presentation.

Banerjee, S, Kwaan MK, Wu Y, Ren Y, **Xirasagar S.** Colonic stent use by indication and patient outcomes: A Nationwide Inpatient Sample study. American College of Colorectal Surgeons national meeting, August 13-17, 2021, San Francisco, California. Poster.

Wu, Y, **Xirasagar S**, Heidari K, Sen S. “Racial Disparities in Stroke Patients’ Use and Experience of EMS and Hospital Emergency Room Services,” Academy Health Research Meeting Virtual, June 14-17, 2021, Student poster.

Boyle, R., Badgett R.A., **Xirasagar, S.**, Jonker L. Hospital Workforce Engagement, Satisfaction, Burnout and Effects on Inpatient Mortality: Findings from the English National Health Service Staff Surveys. Society of General Internal Medicine Annual meeting, 2021.

Banerjee, S., **Xirasagar S.**, Wu Y., Ren Y., Kwaan, M. K. Ostomy surgery for patients with large bowel obstruction in the modern era: A Nationwide inpatient sample study. Digestive Diseases Week, May 21-23, 2021. Podium (Abstract # 3520888).

Ren Y., Wu Y., Hu J, **Xirasagar S.** Racial differences in risk factors driving poorer stroke recovery among Blacks: Machine Learning findings from South Carolina cohort data. American Public Health Association, 145<sup>th</sup> annual meeting, Virtual, October 23-27, 2020. Medical Care Section, Student paper competition oral presentation session, Oral presentation. Best Student Paper Award.

**Xirasagar, S.**, Tsai, M.H., Heidari, K, Hardin, J.W., Wu Y., Jauch E.C., Souvik, S. Self-reported barriers and facilitators for ambulance use decisions by acute ischemic stroke patients. American Public Health Association, 144<sup>th</sup> annual meeting, Philadelphia, November 2-6, 2019. Poster.

Tsai, M.H., **Xirasagar, S.**, Zhang, J. Patient compliance with professional society guidelines for surveillance and re-screening following initial screening colonoscopy. 12th AACR Conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved Conference, September 20-23, 2019. San Francisco, CA, Poster session.

Badgett R.A., **Xirasagar, S.**, Jonker L. What is the relationship between hospital staff engagement and mortality. Society of General Internal Medicine Annual meeting, May 8-11, 2019. (Poster)

Wu, Y., **Xirasagar, S.** Pattern of and factors in racial differences in emergency medical services use by acute ischemic stroke patients. American Public Health Association, 144<sup>th</sup> annual meeting, San Diego, November 2-6, 2019. Poster.

Wu, Y., **Xirasagar, S.** Exploring the wide gap between BRFSS and NHIS based colonoscopy screening rates in the US population.” American Public Health Association, 143<sup>rd</sup> annual meeting, San Diego, November 10-14, 2018. Poster.

Aljabri D, Dumitrascu A, White L, Rucci M, Nordan L, Khan MM, **Xirasagar S**, Horner RD, Naessens J. Patient Portal Use Among Cancer Patients: Does Portal Access During Hospitalization Matter? Academy Health 2017 Annual Research Meeting, June 25-27 at New Orleans, LA.

Wu, Y., Tsai M.H., **Xirasagar, S.** A Comparison of Colorectal Cancer Screening Estimates from the Behavioral Risk Factor Surveillance System (BRFSS) and the National Health Interview Survey (NHIS), American Public Health Association, 145th Annual Meeting, November 4-8, 2017. Atlanta, GA. Student research Round Table presentations.

**Xirasagar, S.** Tsai, M.H., Bryan C.S., Jauch E.C. Leading Causes of Emergency Department (ED) Visits by High ED Users – Differences by User Type, and Impact of a 24-7, Primary Care Physician Access Intervention. American Public Health Association, 145th Annual Meeting, November 4-8, 2017. Atlanta, GA. Oral.

Tsai, M.H. **Xirasagar, S.**, de Groen P.C. Persisting Racial Disparities in Colonoscopy Screening of Persons with a Family History of Colorectal Cancer: What are the Barriers? American Public Health Association, 145th Annual Meeting, November 4-8, 2017. Atlanta, GA. Submitted.



Aljabri D, Sherman C, White L, Visscher S, Hole C, Wright K, Rucci M, Khan MM, **Xirasagar S**, Horner RD, Naessens J. Comparative Effectiveness of Nerve Blocks Versus Periarticular Injections in Total Knee Arthroplasty Patients, International Society for Pharmaceutical Outcomes Research, 22nd international meeting, May 20-24, 2017, Boston.

Powell, D.J., Khan, M.M., **Xirasagar. S.**, Hardin, J.W., Odutolu, O. Provider behaviors and facility characteristics impacting pregnant women's satisfaction with antenatal care in Nigeria: Implications for improving antenatal care use. American Public Health Association, 144rd Annual Meeting, October 29 - November 2, 2016. Denver, CO. Poster.

**Xirasagar, S.**, Tsai, M.H., Gallagher. P.J., Bryan, C.S. Reducing Emergency Room Overcrowding by In-house Primary Care Clinic and Patient Education: Win-win outcomes for patients and the hospital Submitted to American Public Health Association, 144rd Annual Meeting, October 29 - November 2, 2016. Denver, CO. Poster.

Tsai, M.H., **Xirasagar, S.**, Gallagher. P.J., Bryan, C.S. High Users of Emergency Room Services: Effect of Having or Acquiring a Primary Care Physician on Subsequent ER use Patterns in an Urban Setting, to American Public Health Association, 144rd Annual Meeting, October 29 - November 2, 2016. Denver, CO. Podium, presenter.

**Xirasagar, S.**, Tsai M.H., Esoimeme, G., Gallagher, P. Effect of an in-house primary care clinic on ER use by repetitive users in an urban hospital. Podium presentation, American Public Health Association, 143rd Annual Meeting, October 31 - November 4, 2015. Chicago, IL. Podium. (Not presented due to emergency personal travel abroad)

Dumbiri, O., **Xirasagar S.** Will near-universal health coverage impact mortality in the US adult population? 2015 Annual Research Meeting of Academy Health, Minneapolis, June 14-16, 2015. Poster.

Haider R, Qureshi, Z, Horner R, **Xirasagar S**, Khan MM. Colorectal Cancer Costs in the US: Findings from the National Medical Expenditure Panel Survey 2008-12. ISPOR 20<sup>th</sup> International Medical Conference, May 16-20, 2015. Philadelphia, USA. Podium.

Tsai, M.H. **Xirasagar, S.**, Li, Y.J. 2014. Racial disparities in colonoscopy screening among persons with a family history of colorectal cancer. Podium presentation, American Public Health Association, 142nd Annual Meeting, November 15-19, 2014. New Orleans, LA.

Li, Y.J., **Xirasagar, S.**, Qureshi, Z., Hurley, T.G., Hardin, J.W., Zhang, J., Wirth, M. (2013, November). Assessment of an innovative colonoscopy protocol using a 2-person technique and propofol sedation in ensuring high quality screening colonoscopies by trained primary care physicians. Podium session presented at the American Public Health Association, 141st Annual Meeting, Boston, MA.

**Xirasagar, S.**, Li, Y.J., Hurley, T.G., Hardin, J.W., Tsai, M.H., & Hebert, J.R. (2013 November). Primary care physician(PCP)-performed colonoscopy screening: Does PCP procedure experience affect performance quality? Podium session presented at the American Public Health Association, 141st Annual Meeting, Boston, MA.

**Xirasagar, S.**, Li, Y.J., Hurley, T.G., Hardin, J.W., Hurley, D.M., Hebert, J.R., de Groen, P.C. (2013, November). Colorectal cancer prevention efficacy of primary care physician-performed vs. specialist-performed colonoscopies at one endoscopy center. Podium session presented at the American Public Health Association, 141st Annual Meeting, Boston, MA.

Tsai, M.H., Xirasagar, S., Li, Y.J., Qureshi, Z. Colonoscopy screening among Americans with a family history of colorectal cancer. American Public Health Association, 141<sup>st</sup> Annual Meeting, November 2-6, 2013, Boston, Podium presentation.

Xirasagar, S., Li, Y.J., Hurley, T.G., Tsai, M.H., Hardin, J.W., Hurley D., Hebert, J.R., de Groen, P.C. Excellent (83%) Colorectal Cancer Prevention due to an Optimized Colonoscopy Method. American College of Gastroenterology 2013 Annual Scientific Meeting, October 11-16, San Diego, Oral, Plenary session. (Abstract: Xirasagar S, Li, Y-J, Hurley T, et al. Excellent (83%) Colorectal Cancer Prevention Due to an Optimized Colonoscopy Method. The American Journal of Gastroenterology 2013;108:S637.)

Li, Y.J., Xirasagar, S., Hurley T.G., Hardin J.R., Wirth, M., Qureshi, Z. Comparison of Innovations in Screening Colonoscopy Protocols (2-Person Technique and Propofol Sedation) in Improving Adenoma Detection Rates. American Public Health Association, 141<sup>th</sup> Annual Meeting, November 4-8, 2013, Boston Podium; Medical Care Section Student Session Award winner.

Li, Y.J., Xirasagar, S., Hurley T.G., Hardin J.R., Wirth, M., Qureshi, Z. Comparison of Innovations in Screening Colonoscopy Protocols (2-Person Technique and Propofol Sedation) in Improving Adenoma Detection Rates. Academy Health Annual Research Meeting, June 23-25, 2013. Poster.

Xirasagar, S., Li, Y.J., Hurley, T.G., Hardin J.R., Hurley, D., Hebert, J.R. Retrospective cohort study of the cancer prevention efficacy of screening colonoscopy performed with an innovative polyp-maximizing protocol. Academy Health Annual Research Meeting, June 23-25, 2013. Washington, DC. Poster.

Xirasagar, S., Li, Y.J., Hurley, T.G., Pumkam, C., Hardin J.R., Hebert, J.R., Comparing Performance Quality Under a State-of-Art Colonoscopy Protocol vs. Typical Endoscopy Protocols - Implications for Colorectal Cancer Protection. Academy Health Annual Research Meeting, June 23-25, 2013., Washington, DC Poster.

Xirasagar, S., Li, Y.J., Hurley, T.G., Wirth, M., Zhang, J., Pumkam, C., Hebert, J.R., Hurley, D. Evidence on cancer prevention efficacy of an innovative colonoscopy program that expanded screening access to African Americans. 2012 Summit on the Science of Eliminating Health Disparities, October 31 – November 3, 2012, Washington DC. Poster, presenter.

Baek, J.D., Xirasagar S., Stoskopf, C.H., Seidman, R.L. Impacts of patient-centered medical home environment, financial incentive and restrictions on physicians' ability to provide quality primary care. American Public Health Association, 140<sup>th</sup> Annual Meeting, October 27 – 31, 2012, San Francisco, Presenter, Podium.

Melvin, E., Xirasagar, S., Moran R., Hutto, B., Melvin A. Diabetes-Related Lower Extremity Amputation (DRLEA): Payer and plan type matters for single-step vs. multi-step (incremental) amputations. American Public Health Association, 140<sup>th</sup> Annual Meeting, October 27 – 31, 2012, San Francisco, Poster.

Melvin, A., Xirasagar, S., Moran R., Hutto, B., Melvin E. Is the cost of care for Coronary Artery Bypass Graft (CABG) patients among Acute Myocardial Infarction patients associated with payer and plan type and time to CABG? American Public Health Association, 140<sup>th</sup> Annual Meeting, October 27 – 31, 2012, San Francisco, Poster.

**Xirasagar, S., Li Y.J., Hurley T.G., Pumkam, C.,** Hebert, J.R. Comparing adenoma detection rate and type under a state-of-art colonoscopy protocol vs. typical community-based center protocols in community-based practice settings - Implications for cancer protection. American Public Health Association, 140th Annual Meeting, October 27 – 31, 2012, San Francisco, Presenter, Podium.

**Xirasagar, S., Zhang, J., Hurley T.G., Li Y.J., Wirth, W., Hardin, J.W., Hebert, J.R.** Cancer prevention efficacy of PCP-performed vs. specialist-performed screening colonoscopies under an innovative program in South Carolina. American Public Health Association, 140th Annual Meeting, October 27 – 31, 2012, San Francisco, Presenter, Podium.

**Wu, C.S., Xirasagar, S., Zhang, J., Qureshi, Z.P., Baker, S. L., Lai, C.H., Lee, C.Z., Tang, C.H.** Does antihyperglycemic medication adherence reduce stroke hazard among Type 2 diabetes patients? American Public Health Association, 140th Annual Meeting, October 27 – 31, 2012, San Francisco, Presenter, Podium.

**Pate, M., Xirasagar, S., Moran, R., Baker, S.L.** Evidence for cost shifting to private payers under Medicaid managed care pressures – A claims-based national study. American Public Health Association, 139th Annual Meeting, October 29 – November 2, 2011, Washington DC, Poster.

**Melvin, L.A., Xirasagar, S.** Lower extremity amputation in diabetes: An exploratory study of the factors in amputation type and patient outcomes. American Public Health Association, 139th Annual Meeting, October 29 – November 2, 2011, Washington DC, Poster.

**Xirasagar, S., Hurley, T.G., Daguise, V, Li, Y.J., Younger, S., Burch J.B., Hebert, J.R.** Evaluation of the South Carolina Screening Colonoscopy on People Everywhere (SCOPE) program for the uninsured. American Public Health Association, 139th Annual Meeting, October 29 – November 2, 2011, Washington DC, Podium.

**Fu, J.C., Xirasagar, S., Liu, J, Probst J.P.** Cesarean and VBAC Rates among Immigrant vs. Native-Born Women American Public Health Association, 138th Annual Meeting, November 6-10, 2010, Denver. Poster.

**Xirasagar, S., Kanwat, C.P., Sellers, W., Alsup, M.N., Li, Y.J.** Developing Locally-Relevant Educational Messages to Promote Restaurant Industry Preparedness Against Intentional Food Contamination American Public Health Association, 138th Annual Meeting, November 6-10, 2010, Denver. Oral

**Li, Y.J., Xirasagar, S., Probst, J.P.** Insurance Access to Eye Care Services and Association with Visual Impairment Among US Adults. American Public Health Association, 138th Annual Meeting, November 6-10, 2010, Denver. Oral.

**Chang, C.K., Xirasagar, S.** Provider Behavior Under Global Budgeting: Does it evolve from Dysfunctional Tragedy of the Commons to cooperative Nash Equilibrium? American Public Health Association, 138th Annual Meeting, November 6-10, 2010, Denver. Oral.

**Sros, L., Xirasagar, S.** Hurley, T., Ali, M, Probst, J.C., Hardin, J.W., Hebert, J.R. Does Distance Matter? Assessing the Relationship Between Travel Distance Patients Encounter and Their Use of Recommended Screening Colonoscopy. American Public Health Association, 137th Annual Meeting, November 7-11, 2009, Philadelphia. Oral.

Sros, L., **Xirasagar, S.** Hurley, T., Ali, M, Probst, J.C., Hardin, J.W., Hebert, J.R. Rurality and Area-based Socio-economic Status of Patients' Residence as Predictors of Screening Colonoscopy Utilization. American Public Health Association, 137th Annual Meeting, November 7-11, 2009, Philadelphia. Poster.

**Xirasagar, S.** Hurley, T., Sros, L., Hussey, J.R., Hebert, J.R. Primary Care Physicians Performing Screening Colonoscopy: Patient Compliance Improvements and Colorectal Cancer Disparities Reduction Potential. American Public Health Association, 137th Annual Meeting, November 7-11, 2009, Philadelphia. Presenter, Poster.

**Xirasagar, S.**, Kanwat, C.P., Qu, H., Shewchuk, R.M., Li, Y.J., Sros, L. Restaurant Industry Preparedness Against Intentional Food Contamination: A Data-driven Strategy for Food Defense Education. American Public Health Association, 137th Annual Meeting, November 7-11, 2009, Philadelphia. Presenter, Podium.

Shah, K.Y., **Xirasagar, S.**, Stoskopf, C.H. A Qualitative Study of Current Status and Emerging Trends of Medical Care Outsourcing. American Public Health Association, 136th Annual Meeting, October 25-29, 2008, San Diego. Presenter, Poster.

**Xirasagar, S.** Hurley, T., Sros, L., Hebert, J.R. Quality and Case Yield of Screening Colonoscopies Performed by Primary Care Physicians. American Public Health Association, 136th Annual Meeting, October 25-29, 2008, San Diego. Presenter, Podium.

**Xirasagar, S.**, Hurley T, Sros, L., Hebert, J.R. Quality and Case Yield of Screening Colonoscopies Performed by Primary Care Physicians. Academy Health 2008 Annual Research Meeting, Washington DC, June 8-10, 2008. Presenter, Poster.

**Xirasagar, S.**, Shewchuk, R., Kanwat, C.P., Sros, L. Employee Management and Training Practices Reflecting the Preparedness of South Carolina Restaurants to Preempt Malicious/Bio-terrorist Food Contamination. Academy Health 2008 Annual Research Meeting, Washington DC, June 8-10, 2008. Presenter, Poster.

**Xirasagar, S.**, Elder, K.T. A Survey for Minority Population Evacuation Prediction and Resource Planning, Based on Katrina Evacuees Focus Groups. Academy Health 2007 Annual Research Meeting, Orlando, FL, June 3-5, 2007. Presenter, Poster.

**Xirasagar, S.**, Lin, H.C. Total Hip Replacement Quality and Cost: Practice Makes Perfect – Procedure Volume Versus Operative Time, Rehabilitation, Total Costs, and LOS. American Public Health Association, 135th Annual Meeting, November 3-7, 2007, Washington DC. Presenter, Podium.

**Xirasagar, S.**, Elder, K.T. A Survey for Minority Population Evacuation Prediction and Resource Planning, Based on Katrina Evacuees Focus Groups. Academy Health 2007 Annual Research Meeting, Orlando, FL, June 3-5, 2007. Presenter, Poster.

**Xirasagar, S.**, Lin, H.C. Total Hip Replacement Quality and Cost: Practice Makes Perfect – Procedure Volume Versus Operative Time, Rehabilitation, Total Costs, and LOS. Academy Health 2007 Annual Research Meeting, Orlando, FL, June 3-5, 2007. Presenter, Poster.

Laditka, S.B., Laditka, J.N., **Xirasagar, S.**, Cornman, C.B., Davis, C.B. Preparedness Lessons Learned from Nursing Homes that Sheltered Hurricane Katrina Nursing Home Evacuees. South Carolina Aging Research Day, April 13, 2007.

Elder, K, **Xirasagar, S**, Bowen, S.A., Maitra, D. African Americans' Evacuated After the Storm: Factors Impacting Their Social Vulnerability to Hurricane Katrina." American Public Health Association, 134th Annual Meeting, November 4-8, 2006, in Boston, MA. Black Caucus, Podium.

**Xirasagar, S**, Elder, K, Bowen, S.A., Maitra, D. African Americans' Evacuation Response During Hurricane Katrina: Changes Needed in Preparedness Planning." American Public Health Association, 134th Annual Meeting, November 4-8, 2006, in Boston, MA. Presenter, Podium.

**Xirasagar S.**, Laditka S.L., Laditka, J.N., Cornman, C.B., Richter, J.E.V. Han, W.M. Impact of Disaster Preparedness and Management Training on MPH Students' Knowledge, Attitudes, and Planned Public Health Practice. American Public Health Association, 134th Annual Meeting, November 4-8, 2006, in Boston, MA. Presenter, Poster.

**Xirasagar, S.**, Samuels, M.E., Curtin, T.F. Effective Leadership Styles for Medical Directors of Community Health Centers. National Association of Community Health Centers Annual Convention and Community Health Institute, August 25-29, 2006 in Chicago. Presenter, Podium.

Samuels, M.E., **Xirasagar, S.**, Reynolds, D. Innovative Collaboration Strategies for Successful Health Center-Hospital Partnerships. National Association of Community Health Centers Annual Convention and Community Health Institute, August 25-29, 2006 in Chicago. Presenter, Podium.

Samuels, M.E., **Xirasagar, S.**, Community Health Center Governance Effectiveness – Findings from a National Survey of CHC Board Chairs. NACHC Annual Convention and Community Health Institute, August 25-29, 2006 in Chicago. Presenter, Poster

**Xirasagar, S.** Factorial Validity of the Transformational, Transactional and Laissez-fiare Leadership Constructs Among Physician Executives. AcademyHealth 2006 Annual Research Meeting, Seattle, WA, June 25-27, 2006. Presenter, Poster.

Samuels, M.E., **Xirasagar, S.** The Rural Safety Net: Collaboration Between Rural Community Health Centers and Critical Access Hospitals. AcademyHealth 2006 Annual Research Meeting, Seattle, WA, June 25-27, 2006. Presenter, Poster.

Laditka, S.B., **Xirasagar, S.**, Laditka, J.N., Cornman, C.B., Davis, C.B., Richter, J.E. Readiness is All: Using an Experiential Exercise in Nursing Home Preparedness to Train Future Health Care Managers. Association of University Programs in Health Administration (AUPHA) 2006 Annual Meeting, Seattle, WA, June 22-25, 2006. Poster.

Laditka, S.B., Laditka, J.N., **Xirasagar, S.**, Cornman, C.B., Davis, C.B. Ready or Not? Perceptions About Preparedness in Nursing Homes Before and After Hurricane Katrina. AcademyHealth 2006 Annual Research Meeting, Seattle, WA, June 25-27, 2006. Podium.

Elder, K., **Xirasagar, S.**, Bowen, S.A., Maitra, D. Disparities in Hurricane Katrina Evacuation: Factors in African Americans' Evacuation Response, AcademyHealth 2006 Annual Research Meeting, Seattle, WA, June 25-27, 2006. Poster.

Laditka, S.B., Laditka, J.N., **Xirasagar, S.**, Cornman, C.B., Davis, C.B., Richter, J.V.E. Disaster Preparedness in South Carolina Nursing Homes. 3rd Annual South Carolina Aging Research Day, Mount Pleasant, SC, April 7, 2006, Podium.

**Xirasagar, S.**, Lin, H.C. Cultural Factors in Maternal Choice of Cesarean Delivery in Taiwan: A Five-Year Population-based Study. 133<sup>rd</sup> Annual Meeting of the American Public Health Association, Philadelphia, December 10-14, 2005. Presenter, Poster. Abstract #104139

**Xirasagar, S.**, Samuels M.E. National Survey of Critical Access Hospital and Rural Community Health Center Collaboration. 133<sup>rd</sup> Annual Meeting of the American Public Health Association, Philadelphia, December 10-14, 2005. Presenter, Podium. Abstract #112172

**Xirasagar, S.**, Samuels, M.E., Curtin, T.F. Physician Executive Training and Disease Management Goal Achievement. 2005 Disease Management Leadership Forum, sponsored by the Disease Management Association of America, San Diego, California, October 16-19, 2005. Presenter, Poster.

**Xirasagar, S.**, Samuels, M.E., Curtin, T.F. Management Training of Community Health Center Medical Directors and Effectiveness. 2005 Annual Convention and Community Health Institute of the National Association of Community Health Centers. Presenter, Continuing Education session, Miami, Florida, September 18-20, 2005.

Samuels, M.E., Xirasagar, S., Wilhide, S.D. Model Relationships Between Rural Community Health Centers and Hospitals. Office of Rural Health Policy – All Programs Meeting, August 25, 2005.

**Xirasagar, S.**, Samuels M.E., Stoskopf, C.H. Management Training of Medical Directors of Community Health Centers, and Association with Leadership Styles and Effectiveness. Presented at the 132<sup>nd</sup> Annual Meeting of the American Public Health Association, Washington DC, November 6-10, 2004. Presenter, Podium. Abstract #86150

Elder, K., Xirasagar, S. Examining reasons for physician contract denials and terminations: Strategic behavior or something else. 132<sup>nd</sup> Annual Meeting of American Public Health Association, Washington DC, November 6-10, 2004. Abstract # 90816.

**Xirasagar, S.**, Samuels, M.E., Stoskopf, C.H. An Empirical Study of Leadership Styles Among Physician Leaders, and Association of Specific Styles with Leadership Effectiveness. Presented at the 131<sup>st</sup> Annual Meeting of the American Public Health Association, San Francisco, November 15-19, 2003. Presenter, Podium. Abstract # 89624.

**Xirasagar, S.**, Stoskopf, C.H. A Survey of Women Faculty in AUPHA Accredited Programs in North America. Presented at the Association of University Programs in Health Administration Annual Meeting, Women Faculty Forum, Washington D.C. June, 1998. Presenter, Podium.

## **REFEREED PRESENTATIONS AT STATE & REGIONAL SCIENTIFIC MEETINGS**

Tsai M.H., Xirasagar, S., Li, Y.J., de Groen, P.C. Utility of surveillance colonoscopies done as per guidelines – Polyps found and their significance for cancer prevention. 2015 Annual Meeting of the South Carolina Public Health Association, May 20-22, 2015, West Columbia, SC. Poster.

Onyeajam, D., Xirasagar, S. Will near Universal Health Coverage impact mortality disparities among the uninsured in the US adult population? South Carolina Public Health Association Annual Meeting, May 20-22, 2015, Columbia SC.

Li, Y.J., Fernandes, PR, Xirasagar, S., Mecham J. Impact of an Interactive HIV-Education Module for College Students and Health Worker Trainees. Annual conference of the South Carolina Public Health Association, May 25-28, 2010, Myrtle Beach, South Carolina. Poster.

### **OTHER/UNREFEREED PRESENTATIONS AND PUBLISHED ABSTRACTS**

Tsai, M.H., Xirasagar, S., Li, Y.J. Racial disparities in colonoscopy screening among persons with a family history of colorectal cancer. 7<sup>th</sup> Annual James E. Clyburn Health Disparities Lecture Meeting, Apr 11, 2014, South Carolina, Poster session.

Li, Y.J., Xirasagar, S., Hurley, T.G., Tsai, M.H. Right-sided adenoma prevalence and histology among African Americans vs. Whites and policy implications for reducing racial disparities in colorectal cancer, University of South Carolina, 7<sup>th</sup> Annual James E. Clyburn Health Disparities Lecture Meeting, April 11, 2014, Columbia, SC. Poster.

Kanwat, C.P., **Xirasagar, S., Li, Y.J.** South Carolina Food Defense Survey Results – Strengths and Gaps. Food and Drugs Administration Southeast Region Annual Retail Food Safety Seminar, November 3-5, 2009. Myrtle Beach, SC. Invited presentation – Podium.

**Xirasagar, S.** Hebert, J.R. Roundtable topic leader. National Cancer Institute, Cancer Health Disparities Summit 2008, July 14-16, 2008. Bethesda, MD.

**Xirasagar, S., Hurley, T.G., Sros, L., Hebert, J.R.** Quality and Case Yield of Screening Colonoscopy Performed by Primary Care Physicians. National Cancer Institute, Cancer Health Disparities Summit  
Title: *Reducing Colorectal Cancer Disparities: Supplement to Increase Sample Size*  
Funding agency: National Cancer Institute; 09/01/2016 – 08/31/2017; Funding: \$128,345  
PI: **Xirasagar, S.** Co-investigators: Zhang, J, de Groen P.C.

This project expands sample size and specific aims to evaluate age related polyp differences by race that are relevant for colorectal cancer prevention. 2008, July 14-16, 2008. Bethesda, MD. Published abstract.

**Xirasagar, S., Mansaray, A., Hurley, T.G., Sros, L., Hebert, J. R.** Screening Colonoscopy Completion Rates Among Patients of African American Primary Care Physicians Trained in Colonoscopy. National Cancer Institute Cancer Health Disparities Summit 2008, July 14-16, 2008. Bethesda, MD. Presenter, Podium.

**Xirasagar, S., Hurley T.G., Hebert, J.R.** Expanding African Americans' Access to Screening Colonoscopy: How Effective and Safe are Primary Care Physician-Performed Procedures? University of South Carolina, James E. Clyburn Health Disparities Lecture Series, Forging Solutions through Research and Practice, April 25, 2008, Columbia, SC. Presenter, Poster.

### **FUNDED RESEARCH**

#### **Active:**

#### **Completed:**

Title: *Longitudinal study of outcomes of colonic stent use among colorectal cancer patients with bowel obstruction and of colostomy patients.*

Funding agency: University of California Los Angeles Department of Surgery. PI: Xirasagar, S  
Period: 07/2019 to 06/2021; Total funding: \$95,048

This study used South Carolina hospitalization data and the National Inpatient Sample data to examine course and outcomes of two groups of patients: colorectal cancer patients with bowel obstruction (comparing patients provided and not provided colonic stents), and colostomy patient outcomes (comparing colorectal cancer patients with diverticulosis patients).

Title: *Improving EMS use and access for South Carolina stroke patients: racial differences in stroke patients' use of EMS, comorbidities and disability outcomes.*

Funding agency: South Carolina Department of Health and Environmental Control. PI: Xirasagar, S  
Period: 07/2019 to 06/2020; Total funding: \$25,000

This project will study racial differences in stroke patients' use of EMS for hospital transport, differences in comorbidities and disability outcomes.

Title: Supplement to *Reducing Racial Disparities in Colorectal Cancer: Racial Differences in Polyp Profile*

Funding agency: National Cancer Institute (2 R21 CA202477-01); 01/2017-12/2018. Funding: \$125,000  
PI: **Xirasagar, S.** Co-investigators: Zhang, J, de Groen P.C.

Title: *Reducing Racial Disparities in Colorectal Cancer: Racial Differences in Polyp Profile*

Funding agency: National Cancer Institute (1 R21 CA202477-01); 01/2016-12/2018. Funding: \$339,000  
PI: **Xirasagar, S.** Co-investigators: Zhang, J, de Groen P.C.

This project studied age-related differences in polyp initiation, progression and cancer transformation potential between Blacks and Whites and study the colorectal cancer prevention achieved by screening colonoscopy in the cohort at 9-year follow-up.

Title: *ARRIVE: Improving Stroke Outcomes: Role of Ambulance Transportation in Stroke Outcomes and Factors in Non-use of Ambulance transportation.*

Funding source: Genentech, Inc. PI: Xirasagar, S. 11/2015 – 10/2018; Total funding: \$240,337

This project will study the patterns of and impact of the mode of transportation following a stroke on time to initiation of treatment and 90-day outcomes, as well as patient and system factors in the chosen transportation mode.

Title: *Technical Assistance to develop an enhanced curriculum for the master of public health program in Saudi Arabia*

Funding agency: College of Public Health and health Informatics (CPHHI), King Saud Bin Abdul Aziz University for Health Sciences, Saudi Arabia, 06/-1/2013 – 05/31/2016

PI: Khan, MM; Co-PIs: **Xirasagar S.**, Addy, C. Effort: 7.5%

Purpose: The goal is to develop curricula for each of their three Master of Public Health programs, to assist Saudi faculty in adopting suitable pedagogical material and processes to ensure competency-based education, and develop assessment tools for evaluation of curricular effectiveness. The project will also partner with local faculty develop health services and public health research proposals for funding by the Ministry of health of Saudi Arabia.

Title: *Evaluation of the Impact of Providence Hospital's Primary Care Referral Program on ER Visits and Inpatient Admissions*

Funding source: Providence Hospital 09/2014 – 05/2015; Funding amount: \$33,212

PI: **Xirasagar, S.** % effort: 11%



This project will assess the changes in ER visits by frequent ER fliers to Providence Hospital ER following establishment of a free primary care medical home.

Title: *Sip-09-0002 South Carolina Cancer Prevention and Control Network (SCCPCRN)*

Funding Agency: National Center for Chronic Disease Prevention and Health Promotion/(CDC)

Grant/contract #: #U48DP001936-01W1; \$1,500,000 (direct costs) Effort: 2%

PI: Hebert, J.R. Role: Co-investigator, 2% effort; 9/30/2009-9/29/2014

This grant established the South Carolina Cancer Prevention and Control Research Network (SCCPCRN) as one of 10 centers of the CPCRN. The overall project goal is to develop infrastructure to reduce and ultimately eliminate cancer disparities.

Title: *Reducing cancer disparities: Incident cancer after colonoscopies by primary care physicians*

Funding agency; National Cancer Institute 1R15CA156098-01

Total funding: \$319,050, 01/6/2011 to 12/31/2013. Effort: 30%

PI: **Xirasagar, S.** Key Personnel: Hardin, J.W., Hurley, T.G., Zhang, J

This project evaluated the quality of PCP-performed colonoscopies as compared to controls (specialist colonoscopies performed under the same protocol among patients drawn from the same geographic area, and evaluated the colorectal cancer protection conferred by these colonoscopies relative to the documented CRC protection rates documented in national randomized control trials, and relative to a control cancer, lung cancer.

Title: *Bangladesh Health Facilities Survey 2011*

Funding agency; The World Bank; Total funding: \$239,900; 07/1/2011 to 12/31/2011.

PI: Mahmud Khan, Investigator: **Xirasagar, S.** Effort: 12%

This project conducted an infrastructure and functional analysis of the publicly funded segment of the health care delivery system in Bangla Desh

Title: *SCOPE-SC Colonoscopies: Quality Indicators and Equity of Patient Referrals*

Funding Agency: SC Department of Health and Environmental Control

PI: **Xirasagar, S.**, Effort: 9.3%; Total funding: \$12,000, 08/01/2010 – 02/01/2011

The project evaluated the Program “Screening Colonoscopies on People Everywhere in South Carolina, SCOPE-SC” using Year I screening data.

Title: *SCCDCN: Impact of Colonoscopies Performed by Primary Care Physicians*

Funding Agency: National Cancer Institute, under the South Carolina Cancer Disparities Network grant.

Project Leader: **Xirasagar, S.** Parent SCCDCN grant PI: Hebert, J. Co-investigators: Hurley, T. Effort: 3.84 cal. months.

Funding: \$49,979 in direct costs from NCI, \$21,000 from USC sources, total \$70,979 in direct costs, 08/01/2007 to 07/31/2008 Grant #: 3 U01CA114601-03S5

This project examined the quality and efficacy of screening colonoscopies performed by primary care physicians and the impact of training African American PCPs on their patient’ colonoscopy screening rates.

Title: *Supplementary Research Effort to Enhance the Policy Relevance of an NCI-funded Project on Colorectal Cancer Disparities*

Funding Agency: Intramural - University of South Carolina, Office of Research and Health Sciences, Cancer Prevention and Control Program, South Carolina Cancer Center, Dept of Health Services Policy and Management.

PI: **Xirasagar, S.**

Total funding: \$21,000, 08/01/2007 to 07/31/2008

This project supplemented the NCI-funded 3 U01CA114601-03S5, to enable data collection on patient panels of an additional 6 African American untrained primary care physicians to provide a comparison group for better policy relevance of the study's findings.

Title: *Using Existing State-wide Survey Data for Cost-effective, Targeted, Food Defense Education for Restaurants in SC*

Funding Agency: US Food and Drugs Administration, Grant # 1 U13 FD003615-01 via SC Dept of Health and Environmental Control.

USC PI: **Xirasagar, S.** Effort: 1.0 calendar month; Funding: Total = \$40,000. USC Subcontract: \$23,200 direct costs 10/01/2008 to 9/31/2009.

The study analyzed data collected from CDC-funded Food Defense Survey project to develop a targeted information dissemination approach, to reach vulnerable restaurant types, and to disseminate selected food defense information based on data analysis results.

Title: *Food Defense Survey in South Carolina*

Funding agency: CDC through the South Carolina Department of Health and Environmental Control.

USC PI: **Xirasagar, S.** Co-investigator: Smith, L. (SC DHEC Co-PI C.P. Kanwat)

Total funding: \$90,532; 08/21/2006 to 08/15/2007 CDC Grant # U90TP416976-06

This project developed an actionable, valid and reliable survey tool for SCDHEC's Division of Food Protection, and assessed the preparedness of South Carolina's commercial food service establishments to prevent bioterrorist acts.

Title: *Protecting Our Most Vulnerable Citizens: Lessons Learned from Katrina to Improve Readiness in Nursing Homes*

Funding Agency: University of South Carolina, Office of Research and Health Sciences, Coastal Resiliency Information Systems Initiative for the South East (CRISIS)

10/2005 to 03/2006; Total funding: \$25,000

PI: Ladikta, SB; Co-investigator: **Xirasagar, S.**

This project evaluated pre-Katrina disaster preparedness plans of nursing homes in Hurricane Katrina affected areas and how they worked or did not work, through phone surveys and visits to nursing homes that received evacuees from the affected areas.

Title: *Disparities in Evacuation Response: Identifying the Factors Affecting Minorities' Response to Evacuation Requests*

Funding Agency: University of South Carolina, Office of Research and Health Sciences, Coastal Resiliency Information Systems Initiative for the South East (CRISIS)

10/2005 to 03/2006; Total funding: \$25,000

Co-PIs: **Xirasagar S.** and Elder, K.

This project identified the factors influencing African Americans' response to evacuation requests in disaster situations using qualitative research in a theory driven framework. It also developed a comprehensive generic framework and survey instrument to measure ethnic and racial disparities in safety and health decisions in disasters.

Title: *Readiness is all: Experiential and Interactive Learning Modules for Public Health Preparedness*

Funding Agency: CDC funding through the Center for Public Health Preparedness, Arnold School of Public Health, University of South Carolina, Dean's Faculty Scholar Program

05/01/2005 to 08/15/2005; Total funding:\$20,000

PI: Ladikta, SB; Co-investigator: **Xirasagar, S.**

This was a project to develop education and training modules for public health students in public health preparedness for complex disasters. The project also developed an original case study on the disaster preparedness needs and perspectives of long term care institutions.

Title: *The Role of Community Boards in Community Health Centers*

Funding agency: National Rural Health Association from the Technical Assistance for Migrant and Community Health Centers Grant, Bureau of Primary Health Care, Health Resources and Services Administration, U.S. Public Health Service.

01/10/2003 to 12/31/2004; Total funding: \$40,000.

PI - Samuels, ME, University of Kentucky School of Medicine.

Co-PI and USC PI – **Xirasagar, S.**

This was an exploratory survey to examine the role of the governing boards of the federally-funded community health centers in the US to make recommendations for improving centers' functioning.

Title: *Collaborative Relationships Between Community Health Centers and Critical Access Hospitals*

Funding agency: National Rural Health Association from the Technical Assistance for Migrant and Community Health Centers Grant, Bureau of Primary Health Care, Health Resources and Services Administration, U.S. Public Health Service.

01/10/2002 to 09/30/2004; Total funding: \$30,000.

PI: Samuels, ME, University of Kentucky School of Medicine; Co-PI and USC PI: **Xirasagar, S.**

#### **GRANT APPLICATIONS PENDING**

Title: *Improving cancer treatment and health equity in South Carolina: Real-world cancer treatment patterns, prevalence of optimum and sub-optimal treatment, treatment costs, and patient survival*

Funding agency: SC Department of Health and Environmental Control Role: PI

Funds requested: \$162,567 (Proposal submitted at request, CDC support being sought by SC DHEC, pending consideration)

Submitted May 2022

Status: To be submitted through USC-ERA upon receipt of CDC concurrence.

#### **GRANT APPLICATIONS IN REVISION**

Title: *Universalizing primary health care among low-income African Americans and a practical, life-friendly knowledge resource bank for diabetes and hypertension self-management*

Funding agency: National Institutes of Health

Role: PI

Funds requested: \$3.65 million

Status: Summary statement received June 2022, in revision

Title: Advancing health equity for Black Americans: Proportions of care access- and mortality disparities attributable to uninsured status among patients with large bowel obstruction

Funding agency: National Institutes of Health

Role: PI

Funds requested: \$403,000

Status: Summary statement received July 2022, In revision

#### **GRANT APPLICATIONS AS PRINCIPAL INVESTIGATOR, NOT FUNDED**

South Carolina House of Representatives, Rep. Annie McDaniel

Title: *Chester County – Say No to Colon Cancer, 80X23.* Role: PI

Submitted February 2020 at Rep Annie McDaniel's request.

Funds requested: \$100,000 per year for 2 years.

Status: Rep Annie McDaniel, representing Chester county was to procure these funds from the SC Legislature. COVID-19 broke out and the drastically reduced state budget was prioritized for emergent needs. Not funded.

Title: *Chester County, Say No to Colon Cancer: 80 by 22 Project - 80% Colonoscopy Screening of Eligible Population By 2022*

Funding agency: Chester Health Care Foundation Role: PI

Funds requested: \$50,000

First submitted: November 2019, Resubmitted scope of work in Feb 2020 for a spring 2020 start date.

Foundation funds collapsed following COVID-19, no further action since.

Title: *Does Medicaid Discontinuity Impact Colorectal Cancer Care and Mortality?*

Funding agency: National Cancer Institute (NIH) 10/2020-09/2025

Submitted: 2019 Funds requested: \$1,953,971

PI: **Xirasagar, S.** Co-investigators: Zhang, J, Arrington, A.K., Kwaan, M.R

R21 MD013603

Title: *Persisting colorectal cancer disparity and deferred first screening colonoscopy.*

Funding agency: National Institute of Minority Health Disparities (NIH) 12/01/2018-12/31/2020

Funds requested: \$ 408,430

PI: **Xirasagar, S.** Co-investigators: Zhang, J, de Groen, PC.

Title: ARRIVE-Extend: An Observational Study to Compare Costs, Resource Utilization and Quality Outcomes of Acute Ischemic Stroke Patients Treated with and without Alteplase, and/or Endovascular Treatment.

Funding agency: Genentech Inc, submitted 2018; Funds requested: \$249,898

Status: Not funded

Title: *South Carolina Acute Stroke Registry, Paul Coverdell Stroke Project*

Agency: CDC; 08/2015 – 07/2020

Primary applicant: SC Department of Health and Environmental Control

USC PI: Xirasagar, S. Co-investigator: Khan MM. Subcontract to carry out process and outcome evaluation of the South Carolina Stroke Registry to be established under the grant. USC share: \$80,000 per year for 5 years.

Status: SC was not selected for funding among the 6 states selected for funding. Will be resubmitted with SC DHEC when the next call for state stroke registry proposals is made by CDC.

Title: *Colorectal Cancer Prevention: A Screening Colonoscopy Model Which Reduces Cost While Improving Quality and Patient Outcomes*

Agency: Center for Medicare and Medicaid Services (CMS); 04/2014-03/2017 (submitted 08/2013)

Mechanism: Health Care Innovation Awards Round Two. Funds requested: \$4.877 million

CMS number: 1C12013003730

PI: **Xirasagar, S.** Co-investigators: Horner R.D., Singh, R., Salloum, R., Hardin, J.R., Friedman, D, Study purpose: To demonstrate an innovative screening colonoscopy service delivery model and document evidence on cost savings, quality improvement and patient centered outcomes improvement.

Title: *Continuity of Medicaid Coverage and Optimal Treatment of Colorectal Cancer*

Funding agency: American Cancer Society; Funding requested: \$475,436, first submitted April 1, 2013

PI: Xirasagar, Sudha

Study purpose: This project will study Black-White differences among South Carolina Medicaid beneficiaries on pre-surgical and post-surgical staging of colorectal cancer.

Status: Major revisions carried out and resubmitted in October 2014, and again substantially revised and submitted in April 2015, Scored as Very Good and Excellent respectively, Resubmitted with major methodological changes in 2018, Not funded.

Title: *Understaging in colorectal cancer vs. Black-White mortality disparities*

Funding agency: American Cancer Society submitted April 1, 2012

01/2013 – 12/ 2016. Funding requested: \$921,484

PI: Xirasagar, Sudha; Co-investigators: USC: Zhang, Jiajia, Bennett, Charlie L., Dickson, Mike, Qureshi, Zaina, Stafkey-Mailey, Dana MUSC: Ford, Marvella, Esnaola, Nestor F.

Study purpose: This project will study Black-White differences among South Carolina Medicaid beneficiaries on pre-surgical and post-surgical staging of colorectal cancer.

Title: *Racial Disparities in Colorectal Cancer Treatment among Medicaid Beneficiaries.*

Submitted June 2011

Funding agency: National Institutes of Health; [1R01CA166023-01](#)

Contact PI: Xirasagar, S., Multiple PIs: Esnaola, N.F, Ford, M. E. Other key personnel: Bennett, C.L., Qureshi, Z, Dickson, M.F., Staffkey-Mailey, D.,Wallace, K.

This project was to study the receipt of and quality of treatment of colon and rectum cancer among Medicaid beneficiaries in South Carolina.

Status: Revised and resubmitted October 2015, currently under review.

Title: *Primary Care Physicians' Role in Reducing African American Colorectal Cancer Disparities*

Submitted Feb 2010.

Funding agency: National Institutes of Health; [1R01MD005888-01](#)

PI: Xirasagar, S. Key personnel: Ureda, John R., Williams, E., Oldendick, R.W., Hardin, J.W., Hurley, T.G., Moran, R.R., Friedman, D.B., Research mentor: Hebert, J.R.

Title: *Costs and Facilitators of Colonoscopy Done by Primary Care Doctors Vs. Specialists.*

Funding agency: National Cancer Institute – ARRA Challenge Grant, [1RC1CA146665-01](#); 2010

Funds requested: \$584,006.

PI: **Xirasagar, S.** Co-investigators: Ureda, J, Hardin, J, Hurley, T., Friedman, D., Hebert, J.R.

Percentile score: 7

Title: *Disseminating Need-based Food Defense Education to Restaurants in South Carolina and Evaluation of Effectiveness*

Funding Agency: US Food and Drugs Administration, subcontract through South Carolina Department of Health and Environmental Control; Funds requested: \$\$23,200; Submitted July 2009.

Title: *Physician Leadership in Quality Improvement Programs for Chronic Disease at CHCs*

Funding agency: Agency for Healthcare Research and Quality (AHRQ) – [1R01HS017941-01A1](#)

PI: **Xirasagar, S.** Co-investigators: Hardin, J, Ureda, J., Hurley, T., Baxley, E.,

Status: Not funded; Summary statement received and actions taken to address the comments, however the AHRQ budget for research declined precipitously at the time and I did not resubmit the proposal.

Title: *Physician Leadership to Improve Chronic Disease Outcomes and Patient Safety at CHCs*

Funding agency: Agency for Healthcare Research and Quality (AHRQ) – R01

PI: **Xirasagar, S.** Co-investigators: Hussein, M, Hurley, T. Submitted June 2008

Priority score: 333 Percentile score: 44.5.

Title: *Enabling Members of SC Hospital Association to Achieve Medicare Quality Goals Through Leadership Development.*

Funding agency: South Carolina Hospital Association (Concept proposal submitted)

PI: **Xirasagar, S.** Co-investigator: Hussein, M.

Submitted April 2008.

Title: *Cost-effective Food Defense Education for Restaurants in South Carolina*  
 Funding agency: CDC via SC Department of Health and Environmental Control  
 PI: **Xirasagar, S.** Co-investigators: Friedman, D, Fernandes, P.

Title: *Identifying Effective Physician Leadership Styles that Influence Clinical Providers and Impact Chronic Disease Outcomes.*  
 Funding agency: Robert Wood Johnson Foundation (Letter of intent only, not invited for full submission)  
 PI: **Xirasagar, S.** Co-investigator: Hussein, M.  
 Funding requested: \$330,000 in total costs over 36 months, submitted March 2008.

Title: *Innovative Culturally-Appropriate Intervention to Reduce Low Birth Weight in India*  
 Funding agency: National Institutes of Health (National Institute of Child Health and Human Development); 1R03HD057738-01  
 PI: **Xirasagar, S.** Co-investigators: Friedman, D., Fernandes, P.  
 Funding requested: \$141,360 over 2 years; submitted April 2007.

Title: *Building Human Capital: Identifying Effective Physician Leadership Styles that Influence Clinical Providers to Adopt Evidence-Based Medicine.*  
 Funding agency: Robert Wood Johnson Foundation (Letter of intent only, not invited for full submission)  
 PI: **Xirasagar, S.** Co-investigator: Samuels, M.E.  
 Funding requested: \$330,000 in total costs over 36 months, submitted February 2007.

Title: *African American Men's Participation in Clinical Trials for Prostate Cancer Treatment: An Examination from the South.* 3 U01 CA114601- 01S1 (parent grant PI: Hebert J.R.)  
 Funding Agency: National Cancer Institute, under the South Carolina Cancer Disparities Network grant.  
 Project Leader (PI): **Xirasagar, S.** CoPI: Elder, K. Co-investigators: Heiney, S,P., Walker R.  
 Funding requested: \$49,979 in direct costs, submitted April 2006.

Title: *Innovative Project on Physician Leadership Styles to Reduce Health Disparities*  
 Funding agency: Agency for Healthcare Research and Quality; 1R03HSO16422-01  
 PI: **Xirasagar, S.** Co-investigators: Laditka, JN, Anderson, CB.  
 Funding requested: \$100,000, submitted October 2005  
 This study will survey community health center physician providers to verify the validity of physician leadership styles that impact physician subordinates for superior clinical outcomes under HRSA's Health Disparities Collaboratives.

Title: *Physician Leadership in Community Health Centers as a Catalyst to Reduce Health Disparities*  
 Funding agency: US DHHS, Health Resources and Services Administration, Office of Rural Health Policy, One-year Rural Health Research Grant Program.  
 PI: **Xirasagar, S.** Co-investigator: Matteo, B  
 Funding requested: \$149,626, submitted April 2006  
 This project will survey non-physician providers of community health centers to verify the physician leadership styles that positively impact non-physician providers' clinical performance relative to reducing health disparities. It builds upon pilot findings showing that if the medical director had a transformational leadership style, the community health center's achievement of disease management goals was significantly superior relative to those with laissez-faire leadership style.  
 Status: Returned without review on grounds of USC having a funded Rural Health Research Center.

Title: *Improving Nursing Home Leadership for Service Quality Improvement in South Carolina*

Funding agency: South Carolina Dept of Health and Human Services, through Carolina Medical Review, Columbia South Carolina.

PI: **Xirasagar, S**

Funding requested: \$69,000

Title: *Physician Leadership in Community Health Centers as a Catalyst to Reduce Health Disparities*

Funding agency: US DHHS, Health Resources and Services Administration, Office of Rural Health Policy, One-year Rural Health Research Grant Program.

PI: **Xirasagar, S**. Co-investigator: James F. Laditka

Funding requested: \$149,626, submitted May 2005

Comment: Missed funding, being scored fifth among the proposals received at HRSA (four were funded).

Comments received and used for the revised proposal in April 2006

### ***B. Intramural (USC), Not funded***

Title: *Colonoscopy Screening: Pilot Project on Effectiveness in Preventing Colorectal Cancer, Critical Quality Factors, and Evidence Base for Medicare Pay-for-Performance Benchmarks Using Medicare Data*

Funding agency: University of South Carolina Office of Research, ASPIRE-II

06/01/2013 -07/31/2014 Total funding: \$100,000

PI: Xirasagar, S. Co-investigators: Khan, MM, Lopez-DeFede, A, de Groen P.

### **GRANT APPLICATIONS AS CO-INVESTIGATOR, NOT FUNDED**

Title: *Hybrid Human-Machine Interactive Intelligent (HMII) System for Colorectal Cancer Screening*

Funding agency: National Science Foundation IDEA Machine – EAGER projects (Early concept Grants for Exploratory Research).

Funds requested: \$100,000

Concept proposal submitted March 1, 2020

Role: Co-PI; (PI: Hu, J, Dept of Computer Science)

Title: *Colorectal cancer prevention by screening colonoscopy: Artificial intelligence-enabled detection of incorrect polypectomy technique.*

Funding agency: Betty and Gordon Moore Foundation, RFA: Clinical Measures to Improve Diagnosis.

Preliminary application submitted by PI, June 2020. Not invited for full proposal submission.

Role: Consultant (PI: Piet de Groen, University of Minnesota)

### **TEACHING**

#### **Current**

HSPM 800 Doctoral seminar – 1 credit. Developing an NIH grant – Preparing the Study Significance and Conceptual Framework.

Advanced Topics in Health Policy and Management – I HSPM 845: Health System Design, Financing and Performance.. Core course in the HSPM doctoral program.

International Health – Problems, Systems, Policies, & Program Management (Graduate) – HSPM J772: Elective for master’s and doctoral students university-wide (taught in studio setting for distance-based format)

**Taught in earlier years**

Advanced Topics in Health Policy and Management – II HSPM 846: Health Care Content, Design and Delivery. Core course in the HSPM doctoral program.

Approaches and Concepts for Healthcare Administration HSPM 700, Core course for the MPH program

**PROFESSIONAL AFFILIATIONS**

Member, American Public Health Association, the national society of public health professionals and researchers.

Member, Global Health Council, the professional society of international health professionals

Member, Population Reference Bureau, a professional organization on international demographic and population issues.

**JOURNAL EDITORIAL BOARDS**

Associate Editor, *BMC Health Services Research*, November 2010 to present

**HONORS & AWARDS**

Thomson-Reuters Highly Cited Researchers 2016.

Nominated to the James A. Keith Best Teacher of the Year award, Arnold School of Public Health – 2009 and 2010

Delta Omega Society, Mu Chapter

**AWARDS RECEIVED BY MENTORED STUDENTS/FELLOWS**

Yang Ren, doctoral student mentee from the Computer Science department presented our work on use of machine learning methods in stroke patient outcomes: “Racial differences in risk factors driving poorer stroke recovery among Blacks: Machine Learning findings from South Carolina cohort data. American Public Health Association, 145<sup>th</sup> annual meeting, Virtual, October 23-27, 2020. Student paper competition oral presentation session, Oral presentation. Best Student Paper Award, Medical Care Section of APHA.

Lumi Bakos, Doctoral advisee, awarded Junior Scholar award by the South Carolina SmartState Center for Healthcare Quality (CHQ), September 2016 (Arnold School level award)

Yi-Jhen Li, Doctoral student, Dean’s Travel Awards, Arnold School of Public Health, University of South Carolina, Podium presentations at the American Public Health Association meetings, November 2013, October 2012, November 2010.

Yi-Jhen Li, American Public Health Association 141<sup>st</sup> Annual Meeting November 4-8, 2013 Medical care Section Student Session Award for best abstract awarded to Yi-Jhen Li for doctoral dissertation research abstract:



Yi-Jhen Li, Doctoral student, Dean's Travel Award, Arnold School of Public Health, University of South Carolina, Poster presentation at the Academy Health's Annual Research meeting, Baltimore, June 2013

Meng Han Tsai, Doctoral student, Dean's Travel Award and USC Graduate School Travel Award, Arnold School of Public Health, University of South Carolina, poster presentation at the American Public Health Association meeting, Washington DC, November 2013

South Carolina Academy of Sciences. Horace Byrne Explorers Club Award for Outstanding Frontier Science by a Graduate Scientist awarded to Yi-Jhen Li, PhD candidate for mentored research presentation on "Impact of an interactive HIV-education Module for College Students and Health Worker Trainees," Annual meeting 2010, April 9, 2010 at Charleston.

### **DOCTORAL DISSERTATIONS SUPERVISED (COMMITTEE CHAIR)**

Asma Alzaharani, "Periodontal disease and gastrointestinal and related cancers: Differences in cancer risk by site," in progress, expected fall 2022

Yuqi Wu, "Racial differences in colorectal polyp profile and in polyp recurrence and characteristics over follow-up – a comparison of traditional regression modeling and machine learning approaches," in progress, expected fall 2022

Shamika Jones, "Racial differences in access and use of peritoneal dialysis vs. hemodialysis and likelihood of receiving a kidney transplant," Discontinued.

Monique Williams, "Referral and utilization of oral health services pregnant women and association with maternal and child health outcomes – a study using South Carolina PRAMS data," Graduated fall 2020.

Tsai, Meng-Han, "Frequency of Colonoscopy Surveillance in Average-risk Adults Relative to Guideline Recommendations." Spring 2016

Yi-Jhen Li, "Comparison of quality of screening colonoscopy between primary care physicians and specialists as a function of protocol elements," Summer 2013.

Hasan Areabi, "Relative Contribution of Care Process vs. Patient Factors in the Likelihood of Ventilator-Acquired Pneumonia and Related Mortality Among ICU Patients," Summer 2012

Lisa Melvin, "Profile of Diabetes-Related Lower Extremity Amputations: Incidence, Costs and Utilization Patterns Associated with Payer Type and Plan Type," Summer 2012

Andre Melvin. "Hospital Ownership vs. Intensity of Care Provided to Patients with Selected High-cost Conditions – A Nationwide Study," Summer 2012

Margarita Pate. "Hospital Cost shifting Behavior for Selected High-Cost Conditions Under Medicaid Managed Care Burden – A Nation-wide Study," Summer 2012

Sean Wu, "Association of Medication Compliance Rate with Stroke Incidence Among Adult Onset Diabetes Patients in Taiwan" Spring 2012.

David Chaokai Chang, "Global Budgeting - Do Providers Progress from Dysfunctional Tragedy of the Commons Behavior to a Cooperative Nash Equilibrium." fall 2010.

Lekhena Sros, “Diminution of geographic disadvantage of racial and underserved population by training primary care doctors in colonoscopy,” spring 2010.

John Fuh, “A Comparison of Birth Outcomes of Native and Foreign-born Mothers in Taiwan and the Factors Impacting the Differences,” fall 2009.

Keith Shah, “Current Status and Emerging Trends of International Medical Outsourcing in the United States – A Qualitative Study,” fall 2007 (Dissertation co-chair).

### **LANGUAGE SKILLS**

*French:* Basic French (comprehend and speak simple conversational and written French)

*Five Indian Languages:* Fluent in conversation, four languages with reading capability.

### **SERVICE**

University Committee on Tenure and Promotion, AY 2020 to AY2022-23

NIH Study Section, Health Services Organization and Delivery – Grant proposal reviewer (ad hoc)

NIH Study section, ARRA Challenge Grants, Grant proposal reviewer (ad hoc) 2009

### **Journal referee**

*American Journal of Public Health*

*Medical Care*

*British Journal of Obstetrics and Gynecology*

*Journal of Public Health Management and Practice*

*Journal of General Internal Medicine*

*Cancer Epidemiology, Biomarkers and Prevention*

*American Journal of Managed Care*

*Health Policy*

*BMC Health Services Research*

*BMC Public Health*

*Journal of Health Organization and Management*

*Gut, British Medical Journal group*

*HealthCare Management Review*

*Health Promotion Practice*

*Journal of Health Administration Education*

*Social Science and Medicine*

*Southern Medical Journal*

### **Referee for national scientific conferences**

- *American Public Health Association 140th Annual Meeting 2012, Medical Care Section, and Health Services Research section abstracts*
- *American Public Health Association 139th Annual Meeting 2011, Medical Care Section, and Health Services Research section abstracts*
- *American Public Health Association 138th Annual Meeting 2010, Medical Care Section, and Health Services Research section abstracts*

- *American Public Health Association 137th Annual Meeting 2009, Medical Care Section, and Health Services Research section abstracts*
- *American Public Health Association 136th Annual Meeting 2008, Medical Care Section, Reviewer, History of Public Health sub-section abstracts*
- *American Public Health Association 136th Annual Meeting 2008, Medical Care Section, Reviewer, Health Services Research sub-section abstracts*
- *Global Health Council 2008 Annual Conference, Primary Health Care Abstracts reviewer*
- *American Public Health Association 135th Annual Meeting 2007, Medical Care Section, Reviewer, Solicited Session Abstracts*
- *American Public Health Association 135th Annual Meeting 2007, Medical Care Section, Reviewer, Quality Improvement sub-section abstracts*
- *American Public Health Association 135th Annual Meeting 2007, Medical Care Section, Reviewer, Health Services Research sub-section abstracts*
- *American Public Health Association 133th Annual Meeting 2005, Women's Issues Section.*

## **RESEARCH, TRAINING & CONSULTANCY IN INDIA**

Prior to beginning doctoral training at the University of South Carolina in 1997, Dr. Xirasagar directed the Training and Research Division at the Indian Society of Health Administrators, in India. She developed and conducted hospital and health administration training programs for physicians, nurses, and public health care administrators, obtained grants for public health, health services and management research, and health education projects, and directed these projects. Dr. Xirasagar also has extensive research and consulting experience in India in the areas of reproductive health, women and child health issues, and communicable diseases, notably HIV-AIDS, tuberculosis, and malaria. Selected projects and accomplishments are listed below.

### ***Leadership as Principal Investigator***

Title: *Health Care Waste Management and Radiation Hazards from Diagnostic X-ray Installation Facilities in Hospitals and Nursing Homes in two major cities of Karnataka State, India.*

Year: FY1996-97

Funding Agency: Environmental Fund for NGOs, a non-government organization (NGO) focused on environmental issues in developing countries.

Led a team of four researchers. Findings of this study culminated in workshops in Bangalore city for hospital managers and owners on safe waste disposal methods.

Title: *Preparation of Proposals for Strengthening Government Secondary level Hospitals with a cross-subsidizing sliding fee scale to cover indigent population care in the State of Kerala*

Year: 1996-97

Funding agency: World Bank through Government of Kerala.

Led a team of two investigators. The proposal was developed based on an assessment of current infrastructure, comprehensive assessment of health and illness profile, present infrastructure, and projected needs by 2010.

Title: *Comprehensive Study of Reproductive Health of Women, and Factors influencing Child Survival and Safe Motherhood in Karnataka State*

Year: 1996-97

Funding agency: UNICEF and Department of Women and Child Development, Govt. of Karnataka. Led a team of 16 field researchers. Findings of the study led to a comprehensive action plan by the Department of Women and Child Development to enhance the role of government-sponsored toddler care and supplementary nutrition centers for mother and child health promotion. The study showed significant nutritional and pre-school child educational improvements over Dr Xirasagar's survey seven years earlier in the backward districts of the state.

Title: *Health and Nutritional Status of the Female Child in Rural Karnataka, to Enable Development of a State Action Plan for Female Child Health and Development*

Year: 1995

Funding agency: UNICEF and Department of Women and Child Development, Govt. of Karnataka. Survey covered over 6000 rural families with children in the age group 0-6 years, in rural Karnataka. Findings of the study stimulated awareness of the dynamics of the problem, stimulated a drive to sensitize district and local child development program officials and workers to female child issues, and contributed significantly to developing the state action plan for female child health development.

Title: *Comprehensive Study of Health Status of Youth in Poor Neighborhoods of a Major Metropolitan City - Bangalore*

Year: 1993

Funding agency: Department of Science and Technology, Government of India.

The study covered 1048 female and 945 male youth in 25 neighborhoods of concentrated poverty, selected on stratified random sampling basis. Findings showed major issues of sexual health, reproductive health, education and self-esteem, risky sex behaviors, and general health issues among adolescents. Based on this study, Dr Xirasagar directed a major educational intervention program targeting adolescents and young parents. The study findings have had far-reaching impact on her understanding of the dynamics of families in poverty, illiteracy, and counter-productive risk behaviors, and this has enabled a comprehensive understanding of the scope of community intervention projects in poor communities.

### ***Co-Principal Investigator and Co-investigator***

Title: *Evaluation of the impact of 60 Non Government Organizations (NGO) in five southern states and one Union Territory, assisted by the Government of India for Family Planning and Mother and Child Health facilitation in difficult areas/hard to reach populations*

Year: 1995

Funding agency: Ministry of Health & Family Welfare, Government of India

Led a team of three investigators to evaluate the impact of the NGO in terms of family planning adoption and childhood immunization, surveying the population covered using a quasi experimental design

Title: *Evaluation of the Impact of Widows' Pension and Maternity allowance for Landless Agricultural Laborers in Karnataka State, on Women and Children's Health*

Year: 1995

Funding agency: Department of Women and Child Development, Government of Karnataka

The survey covered about 2500 agricultural women laborers and their children, and 2500 widows in about 360 villages selected from 50% of district sub-divisions. Findings of this study led to revamping of the logistics of these two programs for better identification of target beneficiaries.

Title: *Preparation of Project Proposals for Strengthening Family Welfare and Mother and Child Health*

*Infrastructure with World Bank Assistance for six North-Eastern States of India,*

Year: 1994

Funding agency: World Bank through the Govt. of India's Ministry of Health and Family Welfare. Led the project planning and participated as member of a two-person team of researchers. The proposals formed the basis for World Bank assistance for improving health and family welfare infrastructure, based on comprehensive assessment of present health and infrastructure status and future needs by 2010.

Title: *Technical and administrative assistance to USAID in strengthening (Non-Government Organizations (NGOs) for mother and child health and family welfare work, in rural/tribal areas, and the urban poor of India, under the Project for Voluntary Organizations in Health (PVOH) Scheme*

Year: 1992-94

Funding agency: USAID and Ministry of Health &amp; Family Welfare, Government of India

Dr Xirasagar was responsible to coordinate the Project, serve as a key trainer, coordinate the training programs, and prepared the reports. It involved capacity-building among USAID's recipient NGOs for establishing sustainable, community-based reproductive health, nutrition and health promotion activities, and general community development. Technical assistance covered training and leadership development, publication of training materials/perspective documents, qualitative evaluation of performance, and documentation of model projects. Following the intervention, a number of fledgling NGOs picked up speed and continue to serve the population long after USAID support was terminated. A number of them continue to attract accolades at the national level for innovative community development work. Based on this project, Dr Xirasagar was responsible to prepare the policy document, "The Third Force in Health Care – The voluntary sector", subsequently used as training material for civil service administrators, NGO donor agencies, training organizations in rural health, medical college preventive medicine departments, and government health departments.

Title: *Study of Present Stock of Health Manpower and Projected requirements by 2000, and 2020, in five Southern States, one North Eastern State and one Union Territory of India.*

Year: 1992

Funding agency: World Health Organization through the Ministry of Health and Family Welfare, Government of India

Participated in a team of six researchers. Led the questionnaires development, plan of data collection, coordinating project logistics, and field research in three states. Lead author in writing the report. The report generated considerable debate and impact in policy circles, in the light of some key findings related to primary care physicians and specialist manpower.

Title: *Study of Organizational, Program, and Community Factors in Malaria Resurgence in Karnataka*

Year: 1992

Funding agency: Indian Council of Medical Research, and the Government of Karnataka.

Participated in a team of eight researchers. Led the development of the research project plan, data collection, data analysis and report preparation. The methodology involved selection of the best and worst performing districts of the four regions of the state, based on malaria program performance data, and state-level as well as Primary Health Center level performance evaluation, key informant interviews with malaria program personnel, and community surveys in villages selected by program relevant factors. Findings of the survey established the critical role of program logistics rather than insecticide or parasitic drug resistance in the problem of endemic malaria in Karnataka and similarly positioned states. The study led to corresponding shifts of emphasis of program managers to program logistics and monitoring.

***Unfunded research (Principal Investigator/Co-investigator)***

Title: *Study of the efficacy of supervised regimen of twice weekly high dose isoniazid and streptomycin in*

*treatment of acquired isoniazid resistance under conditions of District Tuberculosis Program in India.*

Year: 1986-88

Employer: National Tuberculosis Institute, Government of India, Bangalore

Title: Co-investigator: *Study of the operational efficacy and applicability of two short-course chemotherapy regimens under urban tuberculosis program conditions.* 1987-89.

Year: 1987-89

Employer: National Tuberculosis Institute, Government of India, Bangalore.

## **PROFESSIONAL TRAINING ACTIVITIES IN INDIA**

Marketing and organization of health and nursing administration training programs, and workshops.

Co-trainer in over one hundred short professional training programs for medical, nursing, non-medical hospital and health administrators, on hospital management, public health, family welfare and maternal and child health programs, HIV-AIDS prevention and control, and hospital infection control, for central, state and local government personnel, NGOs, industrial health service personnel, etc., all over India.

## **COMMUNITY HEALTH EDUCATION AND SERVICE PROJECTS IN INDIA**

Title: *Healthy Lifestyle and HIV AIDS awareness education covering about 1500 students of girls' high schools, and 2000 Bus drivers and conductors of the Karnataka State Road Transport Corporation,* Year: 1996-1997

Funding agency: Government of Karnataka, India.

Title: *Half-day awareness sessions for leaders of 60 NGO partners of the Christian Children's Fund, in South India, on "Mother and child health and HIV-AIDS prevention"*

Year: 1995-96

Funding agency: Christian Children's Fund, India.

Title: *2-day workshops for rural male and female youth leaders of five district subdivisions of Belgaum District in Karnataka state, on "Promoting the family's physical, mental and emotional health and prevention of HIV-AIDS in the community",.*

Year: 1996-97

Funding agency: MYRADA, a rural women's development NGO headquartered at Bangalore.

Conducted five workshops covering 200 youth leaders on self-development and HIV prevention.

Title: *Half-day educational sessions on "Developing lifestyles and attitudes for physical, mental and emotional health, and HIV-AIDS prevention" for high school children* Year: 1996-97

Funding agency: Karnataka State Government, Department of Education.

The project consisted of half day health education sessions for about 1500 high school girls of public and missionary schools chiefly serving lowermiddle classes and below poverty population of Bangalore, to impart knowledge/skills for healthy self-development and HIV-AIDS prevention.