

CURRICULUM VITAE

Date Prepared: 29 March 2022

1. Name: **ERIC ANDREW FINKELSTEIN, PH.D, M.H.A.**
2. **Summary of career highlights:** Dr. Finkelstein is Professor of Health Services and Systems Research at the Duke-NUS Medical School, Singapore and the Executive Director of the Lien Centre for Palliative Care. He also holds appointments at NUS School of Public Health and Duke University Global Health Institute. His research focuses on the economic causes and consequences of health behaviors, with a primary emphasis on the use of traditional and behavioral economic incentives to influence behaviors in ways to improve the public's health. Recent research also focuses on studies to better understand the complicated decisions that revolve around end of life care. He has published nearly 300 manuscripts and 2 books in these areas, and also successfully commercialized an Obesity Cost Calculator for employers and insurers. Based on google scholar, he has an h-index of 68 and his publications have been cited over 94,000 times, including in the landmark Supreme Court decision upholding the U.S. Affordable Care Act (aka Obamacare). He was included in the list of the World's Most Highly Cited Researchers in 2015, 2016 and 2017 by Thomson Reuters and Clarivate Analytics and among the Top 2% of scientists worldwide in a study by Stanford University in 2021.
3. Institution of primary appointment: **Duke-NUS Medical School**
4. Secondary appointment(s), if any (include clinical faculty appointment with NUS if applicable):
 - Duke University, Global Health Institute;
 - National University of Singapore, Saw Swee Hock School of Public Health.
5. Present rank(s) and title(s):
 - Executive Director, Lien Centre for Palliative Care, Duke-NUS Medical School, Singapore;
 - Professor in Signature Research Programme in Health Services and Systems Research, Duke-NUS Medical School, Singapore;
 - Director of Research, NUS Institute for Health in Asia (NIHA);
 - Professor, Saw Swee Hock School of Public Health, National University of Singapore;
 - Research Professor, Global Health Institute, Duke University;
 - Deputy Head of Research, SingHealth Duke-NUS Supportive and Palliative Care Centre
6. Medical Licensure: **NA**
7. Specialty certification(s) and dates: **NA**
8. Date of birth: **March 26, 1970**
9. Citizen of: **United States of America**

10. Education

<u>Major</u>	<u>Institution</u>	<u>Date (Year)</u>	<u>Degree</u>
Math/Economics	U. of Michigan, Ann Arbor, MI	1991	B.A.
Economics	U. of Washington, Seattle, WA	1996	M.A.
Economics	U. of Washington, Seattle, WA	1998	Ph.D.
Health Admin.	U. of Washington, Seattle, WA	1999	M.H.A.

11. Professional Society Memberships:
 - International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Singapore
 - The Obesity Society, USA
 - Society for Medical Decision Making (SMDM)
12. Professional training and academic career (chronologically, beginning with first postgraduate position):

<u>Institution</u>	<u>Position/Title</u>	<u>Dates</u>
University of Washington, Seattle	Lead Teaching Assistant (TA), Micro & Macroeconomics	1995 - 1996
University of Washington, Seattle	Lead Teaching Assistant (TA)	1996 - 1998
University of Washington, Seattle	Instructor, Advanced Microeconomics	1998
RTI International	Senior Health Economist	1999 - 2006
RTI International	Director, Public Health Economics Program	2006 - 2007
Duke University	Visiting Instructor, Health Economics	2000 - 2007
University of North Carolina, Center for Health Promotion and Disease Prevention	Research Fellow	2008 - 2012
Duke-NUS Medical School	Deputy Director	2009 - 2012
Duke-NUS Medical School	Associate Professor	2009 - 2013
Duke University, Global Health Institute	Associate Professor of Research	2009 - 2013
National University of Singapore Saw Swee Hock School of Public Health	Associate Professor	2012 - 2013
National University of Singapore Initiative to Improve Health in Asia (NIHA)	Director of Research	2012 - Date
Lien Centre for Palliative Care	Executive Director	2012 - Date
Duke-NUS Medical School	Professor	2013 - Date
National University of Singapore Saw Swee Hock School of Public Health	Professor	2013 - Date
Duke University, Global Health Institute	Professor of Research	2013 - Date
SingHealth Duke-NUS Supportive and Palliative Care Centre	Deputy Head of Research	2020 – Date

Publications in Peer Reviewed Journals (google scholar: citations 94,000+; h-index 68; i10-index 201):

- Ozdemir, S., Chen, T., Tan, C.W., Wong, W.H.W., Tan, H.S., **Finkelstein, E.A.**, Sng, B.L. (2022) Parturients' stated preferences for labor analgesia: a discrete choice experiment. *Patient Preference and Adherence*, forthcoming.
- Malkin, J.D., Baid, D., Reem, A., Alghaith, T., Alluhidan M., Alabdulkarim, H., Altowajri, A., Almalki, Z.S., Herbst, C.H., **Finkelstein, E.A.**, El-Saharty, S., Alazemi, N. (2022) The Economic Burden of Overweight and Obesity in Saudi Arabia. *PLOS One*, forthcoming.
- Sallnow, L., Smith, R., Ahmedzai, S.H., **Finkelstein, E.A.**, ..., Wyatt, K. (2022) Report of the Lancet Commission on the Value of Death: Bringing Death Back Into Life. *The Lancet*, 2022 Feb 26; 399(10327):837-884. doi: 10.1016/S0140-6736(21)02314-X.
- Krukowski R.A., Harvey J., Naud S., **Finkelstein E.A.**, West D.S. (2022) Perspectives on the Form, Magnitude, Certainty, and Target of Financial Incentives in a Weight Loss Program. *American Journal of Health Promotion*, forthcoming.
- Teo, I., Bhaskar, A., Ozdemir, S., Malhotra, C., Hapuarachchi, T., Joad, A.K., Manalo, M.F., Mariam, L., Ning, X.H., Palat, G., Rahman, R., Tuong, P.N., **Finkelstein, E.A.**, & the APPROACH study group. (2022) Perceived stigma and its correlates among Asian patients with advanced cancer: a multi-country APPROACH study. *Psycho-Oncology*, 2022 Jan 19. doi: 10.1002/pon.5882.
- Finkelstein, E.A.**, Albert S Khouri (2022). Letter to the Editor: Cost Analysis of Surgical Intraocular Pressure Management in Glaucoma, *Journal of Glaucoma*, forthcoming.
- Shin, S., Chakraborty. B., Yan. X., Van Dam, R.M., **Finkelstein E.A.** (2022) Evaluations of Combinations of Nudging, Pricing, and Labelling Strategies to Improve Diet Quality: A Virtual Grocery Store Experiment Employing a Multiphase Optimization Strategy. *Annals of Behavioral Medicine*, forthcoming.
- West, D.S., Krukowski, R.A., Monroe, C.M., Stansbury, M.L., Carpenter, C.A., **Finkelstein, E.A.**, Naud, S., Ogden, D., Harvey, J.R. (2022). Randomized Controlled Trial of Financial Incentives During Weight Loss Induction and Maintenance in Online Group Weight Control. *Obesity*, 2022 Jan;30(1):106-116. doi: 10.1002/oby.23322.
- Finkelstein, E.A.**, Bhadelia, A., Goh, C., Baid, D., Singh, R., Bhatnagar, S., Connor, S.R. (2021) Cross Country Comparison of Expert Assessments of the Quality of Death and Dying 2021. *Journal of Pain*

- and Symptom Management*, 2021 Dec 21;S0885-3924(21)00673-4.
10. Ozdemir, S., Ng, S., Wong, W.H.M., Teo, I., Malhotra, C., Mathews, J.J., Joad, A.S.K., Hapuarachchi, T., Palat, G., Pham, N.T., Bhatnagar, S., Ning, X., **Finkelstein, E.A.** (2021) Advanced Cancer Patients' Prognostic Awareness and its Association with Anxiety, Depression and Spiritual Well-being: A Multi-Country Study in Asia. *Clinical Oncology*, 2021 Dec 18;S0936-6555(21)00460-X. doi: 10.1016/j.clon.2021.11.041.
 11. Bhadelia, A., Oldfield, L.E., Cruz, J.L., Singh, R., **Finkelstein, E.A.** (2021) Identifying core domains to assess the 'quality of death': A scoping review. *Journal of Pain and Symptom Management*, 2021 Dec 8;S0885-3924(21)00656-4.
 12. Ozdemir, S., Tan, S.N.G., Wong, W.H.M., Malhotra, C., Teo, I., Joad, A.S.K., Hapuarachchi, T., Palat, G., Pham, N.T., Bhatnagar, S., Rahman, R., Mariam, L., Ning, X., **Finkelstein, E.A.** (2021) Patient-Reported Roles in Decision Making among Asian Patients with Advanced Cancer: A Multi-country Study. *Medical Decision Making Policy & Practice*, 2021 Nov 18;6(2):23814683211061398. doi: 10.1177/23814683211061398.
 13. Gonzalez, J.M., Baid, D., Johnson, R.M., **Finkelstein, E.A.** (2021) What is a Good Death? A Choice Experiment on Care Indicators for Patients at End of Life. *Journal of Pain and Symptom Management*, 2021 Nov 15;S0885-3924(21)00612-6.
 14. Chay, J.X., Fenner, B.J., **Finkelstein, E.A.**, Teo, K.Y.C., Cheung, C.M.G. (2021) Real-world Cost-Effectiveness of Anti-VEGF Monotherapy and Combination Therapy for the Treatment of Polypoidal Choroidal Vasculopathy. *Eye*, 1-6. doi: 10.1038/s41433-021-01856-9.
 15. Malkin, J.D., **Finkelstein, E.A.**, Baid, D., Alqunait, A.M., Almudarra, S., Herbst, C.H., Dong, D., Alsukait, R., El-Saharty, S., Algwaizini, A. (2021) The Impact Of Non Communicable Diseases On Direct Medical Costs And Worker Productivity In Saudi Arabia. *Eastern Mediterranean Health Journal*, 2020;26(4):468–476. <https://doi.org/10.26719/emhj.19.049>.
 16. Hapuarachchi, T., Fernando, G.V.M.C., Weerasingha, S., Ozdemir, S., Teo, I., Vishwanath, P., Priyanthi, A., **Finkelstein, E.A.**, Malhotra, C. (2021). Disparities in end of life outcomes among advanced cancer patients in Sri Lanka: Results from APPROACH study. *Palliative & Supportive Care*, pp. 1-7.
 17. Ozdemir, S., Lee, J.J., Malhotra, C., Teo, I., Yeo, K.K., Than, A., Sim, D.K.L., **Finkelstein, E.A.** (2021). Associations between Prognostic Awareness, Acceptance of Illness and Psychological and Spiritual Well-Being among Patients with Heart Failure. *Journal of Cardiac Failure*, 2021 Oct 13;S1071-9164(21)00398-5. doi: 10.1016/j.cardfail.2021.08.026.
 18. Ozdemir, S., Choong, H.L., Gan, S.W.S., Lim, L.W.W., Malhotra, C., Jafar, T.H., Yee, A.C.P., Vishwanath, P., Tan, S.N.G., **Finkelstein, E.A.** (2021). Patient Decision Aid Development for Older Adults with End Stage Kidney Disease in Singapore. *Kidney International Reports*, 2021 Sep 6. <https://doi.org/10.1016/j.ekir.2021.08.027>.
 19. Chew, C.S.E., Davis, C., Lim, J.K.E., Lim, C.M.M., Tan, Y.Z.H., Oh, J.Y. , Rajasegaran, K., Chia, Y.H.M., **Finkelstein, E.A.** (2021). Use of a mobile lifestyle intervention application as an early intervention for adolescents with obesity: a single cohort pilot study. *Journal of Medical Internet Research*, 2021;23(9):e20520. doi: 10.2196/20520.
 20. Satija, A., Bhatnagar, S., Ozdemir, S., **Finkelstein, E.A.**, Maholtra, C., Teo, I., Yang, G.M.J. (2021). Patients' Awareness of Advanced Disease Status, Psychological Distress and Quality of Life among Patients with Advanced Cancer – Results from the APPROACH study, India. *American Journal of Hospice and Palliative Medicine*, 2021 Sep 3:10499091211042837.
 21. Pham, N.T.; Lee, J.J.; Pham, N.H., Phan, T.D.Q., Tran, K., Dang, H.B., Teo, I., Malhotra, C., **Finkelstein, E.A.**, Ozdemir, S. (2021). The prevalence of perceived stigma and self-blame and their associations with depression, emotional well-being and social well-being among advanced cancer patients: Evidence from the APPROACH cross-sectional study in Vietnam. *BMC Palliative Care*, 2021 Jul 7;20(1):104.
 22. **Finkelstein, E.A.**, Malkin, J.D., Baid, D., ..., Alqahtani, S., El-Saharty, S., Herbst, C.H. (2021). The impact of seven major noncommunicable diseases on direct medical costs, absenteeism, and presenteeism in Gulf Cooperation Council countries. *Journal of Medical Economics*, Jan-Dec 2021;24(1):828-834.
 23. Low, Y.L., **Finkelstein, E.A.** (2021). Cost Effective Analysis of Dual-Energy Computer Tomography for the Diagnosis of Occult Hip Fractures Among the Elderly. *Value in Health*, 2021 Aug 5.
 24. Ozdemir, S., Ng, S., Malhotra, C., Teo, I., **Finkelstein, E.A.**, COMPASS Study Group. (2021). Patient-Caregiver Treatment Preference Discordance and its Association with Caregiving Burden and

- Esteem. *Innovation in Aging*, 2021 Jun 14;5(3):igab020. doi: 10.1093/geroni/igab020. PMID: 34316519; PMCID: PMC8306724.
25. **Finkelstein, E.A.**, Cheung, Y.B., Schweitzer, M.E., Lee, L.H., Kanesvaran, R., Baid, D. (2021). Accuracy Incentives and Framing Effects to Minimize the Influence of Cognitive Bias Among Advanced Cancer Patients. *Journal of Health Psychology*, 2021 Jun 29;135910532111025601.
 26. Li, W., **Finkelstein, E.A.**, Zhen, C. (2021). Intended and Unintended Consequences of Salient Nutrition Labels. *American Journal of Agricultural Economics*, 27 May 2021.
 27. Fenwick, E.K., ..., **Finkelstein, E.A.**, ..., Lamoureux, E.L., (2021). Association of glaucoma on utility using the glaucoma utility instrument (Glau-U) developed with a discrete choice experiment. *JAMA Ophthalmology*, 2021 Jun 24;e211874.
 28. Bilger, M., Koong, A.Y.L., Phoon, I.K.Y., Tan, N.C., Bahadin, J., Bairavi, J., Batcagan-Abueg, A.P.M., **Finkelstein, E.A.** (2021). A Wireless Home Blood Pressure Monitoring System with Automatic Outcome-based feedback and Financial Incentives to improve Blood Pressure outcomes in people with Hypertension: Protocol for a Randomized Controlled Trial. *Journal of Medical Internet Research Protocols*, 2021 Jun 9;10(6):e27496.
 29. **Finkelstein, E.A.**, Baid, D., Cheung, Y.B., Schweitzer, M.E., Malhotra, C., Volpp, K.G., Kanesvaran, R., Lee, L.H., and SHAPE Study Team. (2021). Hope, Bias and Survival Expectations of Advanced Cancer Patients: A cross-sectional study. *Psycho-Oncology*, 2021 May;30(5):780-788. doi: 10.1002/pon.5675. Epub 2021 Apr 1. PMID: 33739561.
 30. Vedanthan, R., Kamano, J.H., ..., **Finkelstein, E.A.** ... Fuster, V. (2021). Group Medical Visits and Microfinance for Patients with Diabetes or Hypertension in Kenya: BIGPIC Trial. *Journal of the American College of Cardiology*, 2021 Apr 27;77(16):2007-2018.
 31. Baid, D., Hayles, E., **Finkelstein, E.A.** (2021). Return on Investment for Workplace Wellness Programs for Chronic Disease Prevention A Systematic Review. *American Journal of Preventive Medicine*, 2021 May 5:S0749-3797(21)00161-6.
 32. **Finkelstein, E.A.**, Lau, E., Doble, B., Ong, B., Koh M.S. (2021). The Economic Burden of Asthma in Singapore. *BMJ Open Respiratory Research*, 2021;8:e000654.
 33. Doble, B., Wong, M.H.M., **Finkelstein, E.A.** (2021). End-Of-Life Cost Trajectories and the Trade-off between Treatment Costs and Life-Extension: Findings from the Cost and Medical Care of Patients with Advanced Serious Illness (COMPASS) Cohort Study. *Palliative Medicine*, 2021 Mar 17:0269216321999576.
 34. Agrawal, S., Wojtanowski, A.C., Tringali, L., Foster G.D., **Finkelstein, E.A.** (2021). Financial implications of New York City's weight management initiative. *PLOS ONE*, 2021 Feb 11;16(2):e0246621.
 35. Malhotra, C., Malhotra, R., Bundoc, F., Teo, I., Ozdemir, S., Chan, N., **Finkelstein, E.A.** (2021). Trajectories of suffering in the last year of life among patients with a solid metastatic cancer. *Journal of the National Comprehensive Cancer Network*, 2021 Sep 7:1-8. doi: 10.6004/jnccn.2021.7014. Epub ahead of print. PMID: 34492633.
 36. **Finkelstein, E.A.**, Krishnan, A., Naheed, A., Jehan, I., de Silva, A., Gandhi, M., Lim, C.W., Chakma, N., Ediriweera, D.S., Khan, J., Kasturiratne, A., Hirani, S., Solayman, A.K.M., Jafar, T.H., COBRA Study Group (2021). Budget Impact and Cost-Effectiveness of the Multi-Component Hypertension Management Program, COBRA-BPS, in Rural Communities in Bangladesh, Pakistan, and Sri Lanka. *Lancet Global Health*, 2021 March 19, ;9(5):e660-e667.
 37. Ozdemir, S., Tan, S.N.G., Chaudhry, I., Malhotra, C., **Finkelstein, E.A.** (2021). Public Preferences for Government Response Policies on Outbreak Control. *The Patient – Patient-Centred Outcomes Research*, 2021 May;14(3):347-358.
 38. Malhotra, C., Bundoc, F., Ang, F.J.L., Ozdemir, S., Teo, I., Sim, D., Jaufeerally, F.R., Aung, T., **Finkelstein, E.A.** (2021). Financial difficulties and patient-reported outcomes among patients with advanced heart failure. *Quality of Life Research*, 2021 May;30(5):1379-1387.
 39. Bilger, M., Shah, M., Tan, N.C., Yan, L.T., Bundoc, F., Bairavi, J., **Finkelstein, E.A.** (2021). Process and outcome-based financial incentives to improve self-management and glycemic control in people with Type 2 diabetes in Singapore: A randomized controlled trial. *The Patient – Patient-Centred Outcomes Research*, 2021 Sep;14(5):555-567. doi: 10.1007/s40271-020-00491-y. Epub 2021 Jan 25. PMID: 33491116; PMCID: PMC8357673.
 40. Ozdemir, S., Tian, Y., Malhotra, C., Harding, R., Koh, G., Kumarakulasinghe, N.B., Lee, L.H., Mon, S.W., **Finkelstein, E.A.**, COMPASS Study Group. (2021). Discordance between advanced cancer patients'

- perceived and preferred roles in decision making and its association with psychological distress and perceived quality of care. *The Patient – Patient-Centred Outcomes Research*, 2021 Sep;14(5):581-589. doi: 10.1007/s40271-020-00480-1. Epub 2021 Feb 11. PMID: 33569723.
41. Malhotra, C, Koh, L.E., Teo, I., Ozdemir, S., Chaudhry, I., **Finkelstein, E.A.**, Compass study team. (2020). A prospective cohort study of stability in preferred place of death among patients with Stage IV cancer in Singapore. *Journal of the National Comprehensive Cancer Network*, (2020): e24148-e24148.
 42. Doble, B., Lau, E., Malhotra, C., Ozdemir, S., Teo, I., **Finkelstein, E.A.** on behalf of the APPROACH study group. (2020). The association of self-blame with treatment preferences in a multi-country cohort of advanced cancer patients from the APPROACH study. *Journal of Psychosomatic Research*, 2020 Dec;139:110284. doi: 10.1016/j.jpsychores.2020.110284.
 43. **Finkelstein, E.A.**, Doble, B., Ang, F.J.L., Wong, W.H.M., Van Dam, R.M. (2020). A Randomized Controlled Trial Testing the Effects of A Positive Front-of-Pack Label With or Without a Physical Activity Equivalent Label on Food Purchases. *Appetite*, 2021 Mar 1;158:104997. doi: 10.1016/j.appet.2020.104997. Epub 2020 Oct 13. PMID: 33065191.
 44. Ozdemir, S., Ng, S., Wen, Y., Chaudhry, I., **Finkelstein, E.A.** (2020). Adoption of Preventive Behaviour Strategies and Public Perceptions about Covid-19 in Singapore. *International Journal of Health Policy and Management*, 2020 Oct 20. doi: 10.34172/ijhpm.2020.199. Epub ahead of print. PMID: 33105971.
 45. Shaffer, K. M., **Finkelstein, E.A.**, Camacho, F., Ingersoll, K., Thorndike, F., Ritterband, L.M. (2020). Effects of an Internet-based cognitive behavioral therapy for insomnia program on work productivity: A secondary analysis. *Annals of Behavioral Medicine*, 2021 Jun 2;55(6):592-599. doi: 10.1093/abm/kaaa085. PMID: 33057694; PMCID: PMC8171799.
 46. Malhotra, C., Chaudhry, I., Ozdemir, S., **Finkelstein, E.A.** (2020). Reduced healthcare utilization among people with chronic medical conditions during COVID-19. *Proceedings of Singapore Healthcare*, 2020 Oct 7. doi: 10.1177.
 47. **Finkelstein, E.A.**, Lim, R., Ward, D., Evenson, K.R., (2020). Leveraging Family Dynamics to Increase the Effectiveness of Incentives for Physical Activity: The FIT-FAM Randomized Controlled Trial. *International Journal of Behavioral Nutrition and Physical Activity*, 2020 Sep 10;17(1):113.
 48. Malhotra, C., Krishnan, A, ..., Ssu, W.M., **Finkelstein, E.A.** (2020). Socio-economic inequalities in suffering at the end of life among advanced cancer patients: Results from the APPROACH study in five Asian countries. *International Journal for Equity in Health*, 2020 Sep 10;19(1):158. doi: 10.1186.
 49. Ozdemir, S., Teo, I., Bundoc, F.C., Malhotra, C., Yeo, K.K., Sim, D.K.L., **Finkelstein, E.A.** (2020). Role in Decision Making among Congestive Heart Failure Patients and its Association with Patient Outcomes: A Baseline Analysis of the SCOPAH study. *Patient Education and Counseling*, 2020 Aug 29:S0738-3991(20)30464-X. doi: 10.1016.
 50. Shin, S., Van Dam, R., **Finkelstein, E.A.** (2020). The Effect of Dynamic Food Labels with Real-time Feedback on Diet Quality: Results from a Randomized Controlled Trial. *Nutrients*, 2020 Jul 20;12(7):2158.
 51. Mon, S.W., Myint, Z., Myint M., Win, H., Zin, T., Yang, G.M.J., Malhotra, C., Teo, I., **Finkelstein, E.A.**, Ozdemir, S. (2020). Awareness of and Preference for Disease Prognosis and Participation in Treatment Decisions among Advanced Cancer Patients in Myanmar: Results from the APPROACH Study. *Asia Pacific Journal of Clinical Oncology*, 2021 Feb;17(1):149-158. doi: 10.1111/ajco.13430. Epub 2020 Sep 13. PMID: 32921003.
 52. Teo, I, Tan, Y.P., **Finkelstein, E.A.**, Yang, G.M.J., Pan, F.T., Tan, E.K.W., Ong, S.Y.K., Cheung, Y.B. (2020). The Feasibility and Acceptability of a Cognitive Behavioral Therapy-based intervention for Patients with Advanced Colorectal Cancer. *Journal of Pain and Symptom Management*, 2020 Jun 20:S0885-3924(20)30530-3.
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 54. Bilger, M., Özdemir, S., **Finkelstein, E.A.** (2020). Demand for Cancer Screening Services: Results from Randomized Controlled Discrete Choice Experiments. *Value in Health*, 2020; 23(9):1246–1255.

55. **Finkelstein, E.A.**, Ang, F.L., Doble, B. (2020). Randomized trial evaluating the effectiveness of within versus across-category front-of-package lower-calorie labelling on food demand. *BMC Public Health*, 2020 Mar 12;20(1):312.
56. Chin, W.T., Ozdemir, S., Baid, D., Zach, S., Tan, Z., Sia, A., **Finkelstein, E.A.**, Sng, B.L. (2020). Patients' Preferences and Trade-off during Labour Epidural Analgesia: A Discrete Choice Experiment. *Journal of Clinical Anesthesia*, 2020 Nov;66:109919. doi: 10.1016/j.jclinane.2020.109919. Epub 2020 Jun 20. PMID: 32570071.
57. Malhotra, C., Bundoc, F.G., Sim, D., Jaufeerally, F.R., **Finkelstein, E.A.** (2020). Instability in preference for place of death among patients with symptoms of advanced heart failure. *Journal of the American Medical Directors Association*, 2021; 22(2): 349.e29-349.e34.
58. Mon, S.W., Ozdemir, S., Myint Zu, W.W., Win, H., Maw, M.M., Win, K.C., Thant, K.Z., Teo, I., Krishnan, A., Goh, C.R., **Finkelstein, E.A.**, Malhotra, C. (2020). End of life experiences of patients with advanced cancer in Myanmar: results from the APPROACH study. *Asia Pacific Journal of Clinical Oncology*, 2020 Dec;16(6):333-339. doi: 10.1111/ajco.13373. Epub 2020 Jun 23. PMID: 32573100.
59. West, D.S., Krukowski, R.A., **Finkelstein, E.A.**, Stansbury, M.L., Ogden, D.E., Monroe, C.M., Carpenter, C.A., Naud, S., Harvey, J., West, D., (2020). Adding Financial Incentives to Online Group-based Behavioral Weight Control: A Randomized Controlled Trial. *American Journal of Preventive Medicine*, 2020 May 21:S0749-3797(20)30158-6.
60. Malhotra, C., Vishwanath, P., Yong, J.R., Truls, O., Seow, D., Yap, P., Tan, L.L., Tham, W.Y., Vaingankar, J., Foo, J., Tan, B.Y., Tong, K.M., Ng, W.C., Allen, J.C., Malhotra, R., Tan, W.M., Wee, S.L., Ng, L.L., Goveas, R., Mok, V., Sim, A., Ng, W.F., Wong, H.K., Balasundaram, B., Tan, R.Q., Ong, P.S., Cheong, C.Y., Yee, A., Tiong, C., Hum, A., Lee, A., **Finkelstein, E.A.** (2020). A prospective longitudinal study of caregivers of community dwelling persons with severe dementia (PISCES): Study protocol. *Journal of Alzheimer's disease*, 2020;75(2):403-416.
61. Xie, Y., Nguyen, Q. D., Hamzah, H., ..., **Finkelstein, E.A.**, Ting, D.S.W., (2020). Artificial Intelligence for Teleophthalmology-based Diabetic Retinopathy Screening in a National Program: A Modelled Economic Analysis Study. *The Lancet Digital Health*, 2020 May;2(5):e240-e249. doi: 10.1016/S2589-7500(20)30060-1.
62. Sloan, R., Kim, Y., Sawada, S., Asakawa, A., Blair, S., **Finkelstein, E.A.** (2020). Is Less Sedentary Behavior, More Physical Activity, or Higher Fitness Associated with Sleep Quality?: A Cross-Sectional Study in Singapore. *International Journal of Environmental Research and Public Health* 2020 Feb 19, 17(4), 1337.
63. Malhotra, C., Meibo, H., Malhotra, R., Sim, D., Jaufeerally, F.R., Bundoc, F.G., **Finkelstein, E.A.** (2020). Instability in end-of-life care preference among heart failure patients: Secondary analysis of a randomized controlled trial in Singapore. *Journal of General Internal Medicine*, 2020 Feb 26.
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Editorials, Commentaries, and Interviews:

1. **Finkelstein, E.A.** (Feb 8, 2022) *THE LANCET: Experts warn of the increasing overmedicalisation of death, call for radical rethink of how society cares for people dying*. CNA938 Live Radio Interview (Health Matters programme on CNA938)
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Presentations (from 2016 to current, most recent first):

1. **Finkelstein, E.A.** (2022 April). *A Cross Country Comparison Expert Assessments of the Quality of Death and Dying, 2021*; at Cicely Saunders Institute of Palliative Care open seminar series 2022, virtual webinar.
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5. **Finkelstein, E.A.** (2022 March). *The Economics of Dying* at British Royal Society of Medicine, The Lancet Commission on the value of death virtual webinar.
6. **Finkelstein, E.A.** (2022 February). *Behavioural Economics as a Tool for Chronic Disease Prevention and Treatment? Theory and Evidence* for Singapore-ETH Centre, virtual webinar.
7. **Finkelstein, E.A.** (2021 December). *Hope, Bias, and Survival Expectations of advanced cancer patients*; at 7th Singapore Palliative Care Conference (SPCC 2021) session: Patient and caregiver perspectives – research and clinical implications, virtual webinar.
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11. **Finkelstein, E.A.** (2021 June). *Quality of Death and Dying*; at Jockey Club End-of-Life Community Care (JCECC) Project's International Conference 2021: Community End-of-Life Care: Sustainable Development and New Frontier, virtual webinar, Hong Kong.
12. **Finkelstein, E.A.** (2021 June). *Economics of Obesity*; at Saudi Health Council Seminar Series, virtual webinar, Saudi Arabia
13. **Finkelstein, E.A.** (2021 January). *Budget Impact and Cost Effectiveness of the Multi-Component Hypertension Management Program, COBRA-BPS, in Rural Communities in Bangladesh, Pakistan and Sri Lanka*; at Innovations in Clinical Development South Asia Forum 2021, virtual webinar.
14. **Finkelstein, E.A.** (2021 January). *The Causes and Consequences of Overtreatment at the End-of-Life*, at Palliative Care, Culture & the Clinic Symposium virtual seminar.
15. **Finkelstein, E.A.** (2020 December). *The Association of Self-blame with Treatment Preferences*, from "Learnings from 'Asian Patient Perspectives regarding Oncology Awareness, Care and Health' (APPROACH)", at APHN virtual seminar.
16. **Finkelstein, E.A.** (2020 December). *The Use of Technology and Incentives for NCD Prevention: What does the evidence say?*, at Human Capital in the COVID-19 Era, virtual course by The International Monetary Fund's Middle East Center for Economics and Finance Kuwait & The World Bank.
17. **Finkelstein, E.A.** (2020 November). *Using NUSMart, an Online Experimental Grocery Store, To Improve Diet Quality in Kingdom of Saudi Arabia (KSA)*, at Saudi Arabia Centre for Disease Control (SCDC) virtual meeting.
18. **Finkelstein, E.A.** (2020 October). *The Association of Self-blame with Treatment Preferences & Prognostic awareness and its association with health outcomes*, from "Learnings from 'Asian Patient Perspectives regarding Oncology Awareness, Care and Health' (APPROACH)", at APHN virtual seminar
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21. **Finkelstein, E.A.** (2020 September). *Economic Burden of Migraine in Singapore*, at PATHw Regional Roundtable Webinar "Re-imagining Healthy Workplaces In Asia", virtual webinar.

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23. **Finkelstein, E.A.** (2020 July). *A Brief Summary of COMPASS & SHAPE Research Projects*, virtual presentation to Temasek Foundation.
24. **Finkelstein, E.A.** (2019 December). *Hope, Bias, and Survival Expectations and Among Cancer Patients*. Presented at Palliative Care Department, University of Medicine and Pharmacy at Ho Chi Minh City, Ho Chi Minh, Vietnam.
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29. **Finkelstein, E.A.** (2019 November). *A Brief Introduction to Cost Effectiveness of Interventions: Relative Effectiveness, Economics of Treatment*. Presented at Saudi Health Council/ World Bank Group Obesity Week, Riyadh, Saudi Arabia.
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33. **Finkelstein, E.A.** (2019 October). *Hope, Bias and Survival Expectations of Advanced Cancer Patients in Singapore*. Presented at 14th Singapore Public Health & Occupational Medicine (PHOM), Singapore.
34. **Finkelstein, E.A.** Doble, B.M. (2019 October). *Overview of Lancet Commission on "Value of Death"*. Presented at Lien Centre for Palliative Care's 10th Year Anniversary Conference, Singapore.
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36. **Finkelstein, E.A.** (2019 October). *Cognitive Biases and Disentangling Hope from Beliefs about Prognosis and Findings from "COMPASS: Costs and Medical Care of Patients with Advanced Serious Illness in Singapore" and "SHAPE: Survival Expectations and Hope Among Cancer Patients at End-of-Life" on Prognosis*. Presented at Lien Centre for Palliative Care's 10th Year Anniversary Conference, Duke-NUS Medical School, Singapore.
37. **Finkelstein, E.A.** (2019 October). *Moving from Quality to Value: How Do We Get There?*. Presented at HSRI Research Forum Oct 2019, Duke-NUS Medical School, Singapore.
38. **Finkelstein, E.A.** (2019 September). *Using Observational and Experimental Research to Improve Diet Quality*. Presented at Columbia University, Mailman School of Public Health, New York, USA.
39. **Finkelstein, E.A.** (2019 September). *Using Observational and Experimental Research to Improve Diet Quality*. Presented at London School of Health and Tropical Medicine, London, United Kingdom.
40. **Finkelstein, E.A.** (2019 September). *Prognostic Beliefs among Patients with Advanced Cancer*. Presented at Cicely Saunders Institute, Kings College London, United Kingdom.
41. **Finkelstein, E.A.** (2019 August). *What is value in quality improvement?* Presented at National Palliative Care QI Conference, Singapore.
42. **Finkelstein, E.A.** (2019 August). *Heart failure patients' stated preference for aggressive end-of-life care: Does it change over time?* Presented at APHC 2019, Surabaya, Indonesia.
43. **Finkelstein, E.A.** (2019 July). *Randomized Controlled Trial Evaluating the Effect of Implicit and Explicit Taxes on the Purchasing of 'High-in Calories' Products*. Presented at iHEA World Congress, Basel, Switzerland.
44. **Finkelstein, E.A.** (2019 June). *A Randomized Controlled Trial Evaluating the Relative Effectiveness of*

- Two Front-of-Pack Nutrition Labels*. Presented at ISBNPA Conference, Prague, Czech Republic.
45. **Finkelstein, E.A.** (2019 June). *Randomized Controlled Trial Evaluating the Effect of Implicit & Explicit Taxes on the Purchasing of 'High-In-Calorie' Products (IMPEX)*. Presented at ISBNPA Conference, Prague, Czech Republic.
 46. **Finkelstein, E.A.** (2019 May). *Why Good Deaths Are Hard To Find*. Presented at University of Pennsylvania, Pennsylvania, USA.
 47. **Finkelstein, E.A.** (2019 May). *Disentangling Hope from Beliefs about Prognosis Among Advanced Cancer Patients in Singapore*. Poster presented at EAPC Conference, Berlin, Germany.
 48. **Finkelstein, E.A.** (2019, April) *Value-Based Care in an Academic Institution (Beyond Quality to Value)*, Presented at SGH 23rd Annual Scientific Meeting, Singapore.
 49. **Finkelstein, E.A.** (2019, April) *Randomized Control Trial Evaluating the Effects of the Implicit Taxes on the Purchasing of the High-Calories' Products*, Presented at SGH 23rd Annual Scientific Meeting, Singapore.
 50. **Finkelstein, E.A.** (2019, April) *Using the NUSMart Web-Based Grocery Store to Improve Diet Quality Among Singaporean*, Presented at NMRC Awards Ceremony and Research Symposium 2019, Singapore.
 51. **Finkelstein, E.A.** (2019, March) *Using Observational and Experimental Studies to Improve Diet Quality: A Research Agenda*, Presented at Duke Global Health Institute, Durham, North Carolina.
 52. **Finkelstein, E.A.** (2018 December) *5 Steps to Develop a Value Proposition for a New Health Innovation*, Presented at ETH, Zurich, Switzerland.
 53. **Finkelstein, E.A.** (2018 December) *Female Community Health Volunteer Led Lifestyle Intervention is a Highly Cost-Effective, Low-Cost and Scalable Solution for Blood Pressure Control in Nepal*, Lifestyle 2019 Scientific Session, Katmandu, Nepal.
 54. **Finkelstein, E.A.** (2018 December). *Building the Business Case for Health Innovations: Examples and Best Practices*. Presented at Medtronic Asia Pacific Health Economics and Reimbursement Summit, Singapore.
 55. **Finkelstein, E.A.** (2018 December). *Why Good Deaths Are Hard To Find*. Presented at Cipto Mangunkusumo Hospital RSCM, Jakarta, Indonesia.
 56. **Finkelstein, E.A.** (November 2018). *Key Consideration in Health Technology Assessment*. Presented at Asia Pacific Health Technology Assessment Workshop Stand-Alone Scientific Symposium, Singapore.
 57. **Finkelstein, E.A.** (2018 October). *The cost of medicalised Death*. Presented at the Value of Death meeting Lancet Commission, Bristol, UK.
 58. **Finkelstein, E.A.** (2018 October). *Why Good Deaths Are Hard To Find*. Presented at the National Library Singapore for Singapore Hospice Council.
 59. **Finkelstein, E.A.** (2018 October). *Six Month Results of a Randomized Controlled Trial of an Incentive-based Physical Activity Program Targeting Both Children and Adults (FIT-FAM)*. Presented at the 13th Singapore Public Health & Occupational Medicine Conference in Singapore.
 60. **Finkelstein, E.A.** (2018 September). *On Value Based Health Care Delivery and Pricing*. Presented at the Hospital Management Asia 2018 Conference, Bangkok, Thailand.
 61. **Finkelstein, E.A.** (2018 September). *HTA Success stories from Singapore: Maximizing the value of Health services Research*. Presented at the Health Intervention and Technology Assessment Program (HITAP), Bangkok, Thailand.
 62. **Finkelstein, E.A.** (2018 September). *Behavioural Economics as a Tool for Chronic Disease Prevention: Theory and Evidence*. Presented at the Health Intervention and Technology Assessment Program (HITAP), Bangkok, Thailand.
 63. **Finkelstein, E.A.** (2018 June). *Health Technology Assessment and Pharmacoeconomics*, Presented at Centro Hospitalar Conde de S. Januário (CHCSJ), Macau.
 64. **Finkelstein, E.A.** (2018 June). *A Single-arm Feasibility Study of GlycoLeap, a Mobile Lifestyle Management Program for People with Type 2 Diabetes*. (Poster) Presented at the 17th International Society of Behavioral Nutrition and Physical Activity (ISBNPA 2018) Annual Meeting in Hong Kong.
 65. **Finkelstein, E.A.** (2018 June). *Encouraging Healthy Nutrition in Purchases in an Online Grocery Setting using Experimental Economics (NUSMart)*. (Poster) Presented at the 17th International Society of Behavioral Nutrition and Physical Activity (ISBNPA 2018) Annual Meeting in Hong Kong.
 66. **Finkelstein, E.A.** (2018 June). *Randomized Controlled Trial of an Incentive-based Physical Activity*

- Program targeting both Children and Adults (FIT-FAM)*. (Poster) Presented at the 17th International Society of Behavioral Nutrition and Physical Activity (ISBNPA 2018) Annual Meeting in Hong Kong.
67. **Finkelstein, E.A.** (2018 March). *Economic causes and consequences of health behaviors*. Presented at the Tianfu International Clinical Nutrition Conference, Chengdu, China.
 68. **Finkelstein, E.A.** (2018 March). *Behavioral Economics as a Tool for Chronic Disease Prevention: Theory and Evidence*. Presented at Department of Population Health Science and Policy Grand Rounds, Icahn School of Medicine at Mount Sinai, New York, USA.
 69. **Finkelstein, E.A.** (2018 February). *Behavioural Economics and Biases in Decision Making: Ethical Considerations and Practical Recommendations*. Presented at the 25th Annual Conference of Indian Association of Palliative Care (IAPCON 2018) in New Delhi, India.
 70. **Finkelstein, E.A.** (2018 February). *Prognostic awareness and expected survival among advanced cancer patients in Singapore: Results from COMPASS Cohort Study*. Presented at the 25th Annual Conference of Indian Association of Palliative Care (IAPCON 2018) in New Delhi, India.
 71. **Finkelstein, E.A.** (2018 January). *Exploring the Complicated Decisions around End of Life Care: Research at the Lien Centre for Palliative Care, Singapore*. Presented at the Singapore Hospice Council/Lien Centre for Palliative Care Multi-disciplinary Forum in Singapore.
 72. **Finkelstein, E.A.** (2017 November). *Nudges for Chronic Disease Prevention*. Presented at the Future Trends Forum in Taipei, Taiwan.
 73. **Finkelstein, E.A.** (2017 October). *Nudges for Weight Management*. Presented at The Obesity, Bariatric and Endocrine Societies (OBES) Symposium 2017 in Singapore.
 74. **Finkelstein, E.A.** (2017 October). *Using Behavioral Economics to Transform Measurement Tools into Intervention Tools*. Presented at Duke Kunshan Conference on Digital Health Science and Innovation: Partnerships between Academia and Industry in Kunshan, Jiangsu Province, China.
 75. **Finkelstein, E.A.** (2017 October). *Exploring the Complicated Decisions around End of Life Care: Research at the Lien Centre for Palliative Care, Singapore*. Presented at Cicely Saunders Institute, Department of Palliative Care, Policy and Rehabilitation London, United Kingdom
 76. **Finkelstein, E.A.** (2017 September). *Applying Behavioral Economic Principles to Design Health Interventions*. Presented at 6th Asia Pacific Primary Care Research Conference (APPCRC), Singapore.
 77. **Finkelstein, E.A.** (2017 September). *Nudges For Healthy Living*. Presented at 6th Asia Pacific Primary Care Research Conference (APPCRC), Singapore.
 78. **Finkelstein, E.A.** (2017 September). *Developing a Value Message for Health Care Innovation*. Presented at Apollo Endosurgery Inc., Austin, Texas, USA.
 79. **Finkelstein, E.A.** (2017 September). *Exploring the Complicated Decisions around End of Life Care*. Presented at University of Tennessee in Memphis, USA.
 80. **Finkelstein, E.A.** (2017 September). *Behavioral Economics as a Tool for Chronic Disease Prevention: Theory & Evidence*. Presented at University of Tennessee in Memphis, USA.
 81. **Finkelstein, E.A.** (2017 September). *An Introduction to Research and Education at the Duke-NUS Lien Centre for Palliative Care*. Presented at Duke University in Durham, USA.
 82. **Finkelstein, E.A.** (2017 September). *RWE in best practice – What Types of Evidence for what purpose. Building a Business Case for Healthcare Innovations using RWE*. Presented at APAC Real World Data Summit, Bangkok.
 83. **Finkelstein, E.A.** (2017 September). *The Emergence of RWE and Harnessing it to Support Value-Based Models*. Presented at APAC Real World Data Summit 2017, Bangkok.
 84. **Finkelstein, E.A.** (2017 July). *The Value of Integration - A Health Service Perspective: The Differential Costs of Living and Dying: Embracing Multiple Perspectives*. Presented at 12th Asia Pacific Hospice Conference (APHC 2017) – Greater Than the Sum of Its Parts, Singapore.
 85. **Finkelstein, E.A.** (2017 July). *Revolutions in the Economics of Health Systems: Understanding Factors That Influence the Demand for Marginally Life Extending Treatments: The Case of Dialysis Among Elderly Singaporeans*. Presented at 12th World Congress of the International Health Economics Association, Boston, USA.
 86. **Finkelstein, E.A.** (2017 April). *Health Technology Assessment (HTA): Budget Impact Analysis in National Essential Drug List Selection*. Presented at 6th HTAsia link MOH Workshop in Hanoi, Viet Nam.
 87. **Finkelstein, E.A.** (2017 April). *New Device Interventions & Health Technology Assessment: Predicted Patient Demand for a New Delivery System for Glaucoma Medicine*. Presented at SGH 22nd Annual

- Scientific Meeting, Singapore.
88. **Finkelstein, E.A.** (2017 March). Affordable Cancer Care in Asia: *Funding spotlight - Access to palliative care*. Presented at War on Cancer session 2017 by *The Economist*, Singapore.
 89. **Finkelstein, E.A.** (2017 March). *Stated Uptake of Incentive-Based Physical Activity Rewards Programmes Among Active and Insufficiently Active Full Time Employees*. Presented at NMRC Awards Ceremony and Research Symposium 2017, Singapore.
 90. **Finkelstein, E.A.** (2016 December). *How can health care systems better support families, care-givers and community members in caring for people of all ages for who death is near?* Presented at Salzburg Global Seminar Session 562 Rethinking Care toward the End of Life in Salzburg, Austria.
 91. **Finkelstein, E.A.** (2016 November). *Behavioral Economics – Evidence for Chronic Disease Prevention?* Presented at 6th ISPAH Congress in Bangkok, Thailand.
 92. **Finkelstein, E.A.** (2016 October). *Comparing Health Systems*. Presented at 9th Healthcare Policy and Governance Programme in Singapore.
 93. **Finkelstein, E.A.** (2016 October). *Impact of treatment subsidies and cash payouts on treatment choices at the end of life*. Presented at 21st International Congress on Palliative Care in Montreal, Canada.
 94. **Finkelstein, E.A.** (2016 September). *Applications in Behavioural Economics to Reduce Risk Factors for Chronic Diseases*. Presented at Singapore International Public Health Conference in Singapore.
 95. **Finkelstein, E.A.** (2016 September). *Success Stories of Health Economics in Singapore*. Presented at Singapore International Public Health Conference in Singapore.
 96. **Finkelstein, E.A.** (2016 September). *Old Habits Die Hard - Behavioural Economics to the Rescue*. Presented at Singapore Health & Biomedical Congress in Singapore.
 97. **Finkelstein, E.A.** (2016 September). *Using Behavioral Economics to Improve Diabetes Prevention and Treatment*. Presented at Singhealth Duke-NUS Scientific Congress 2016 in Singapore.
 98. **Finkelstein, E.A.** (2016 September). *Incremental Cost-Effectiveness of Algorithm-Driven Genetic Testing versus No Testing for Maturity Onset Diabetes of the Young (MODY) in Singapore*. Presented at ISPOR 7th Asia-Pacific Conference in Singapore.
 99. **Finkelstein, E.A.** (2016 August). *Cost-Utility of Sevelamer vs. Calcium Carbonate for Treatment of Hyperphosphatemia among Pre-Dialysis CKD Patients*. Presented at Sanofi-Aventis lecture in Singapore.
 100. **Finkelstein, E.A.** (2016 August). *Economic aspects of providing cancer care in a public health system in Singapore*. Presented at National Cancer Centre COE program in Singapore.
 101. **Finkelstein, E.A.** (2016 June). *Introduction to Behavioural Economics and Use of Incentives for Chronic Disease Prevention and Treatment*. Presented at Moi University Hospital Grand Rounds in Eldoret, Kenya.
 102. **Finkelstein, E.A.** (2016 June). *Making the Business Case for Health Innovations*. Presented at Moi University Hospital Grand Rounds in Eldoret, Kenya.
 103. **Finkelstein, E.A.** (2016 May). *Applying health economics in Asia*. Presented at FT Asia Healthcare & Life Sciences Summit Forging Frontiers for Pharmaceuticals in Singapore.
 104. **Finkelstein, E.A.** (2016 February). *Success stories of local cost-effectiveness analyses*. Presented at NMRC Awards Ceremony and Research Symposium 2016 in Singapore.
 105. **Finkelstein, E.A.** (2016 January). *Impact of treatment subsidies and cash payouts on treatment choices at the end of life*. Presented at SMDM 2nd Biennial Asia-Pacific Conference in Hong Kong.

Professional Awards and Special Recognitions:

1. Recognized among the Top 2% of Scientists Worldwide in a study by Stanford University, 2021
2. SingHealth Duke-NUS Research Team Award, 2020
3. Dean's Excellence Awards (DEA) 2019 in Research, Duke-NUS Medical School
4. Included in list of World's Most Highly Cited Researchers in 2015, 2016, 2017 and 2018 by Thomson Reuters and Clarivate Analytics
5. One of the Most Highly Cited Articles in Journal of Health Economics from 2013 to 2016
6. *Health Affairs* most read paper 2009
7. Successfully commercialize an Obesity Cost Calculator, which generated over \$400K USD in revenue
8. RTI Highly Published Author Award, 2007

9. RTI Early Career Author Award, 2006
10. RTI Highly Published Author Award, 2006
11. Nominee (with Phaedra Corso and Ted Miller), Society for Advancement of Violence and Injury Research (SAVIR), Research! America's Garfield Award for Public Health Impact for *The Incidence and Economic Burden of Injuries in the United States*, 2006
12. RTI Outstanding Paper Award, 2005
13. RTI Highly Published Author Award, 2005
14. RTI Outstanding Paper Award, 2004
15. Langton Award for Outstanding Undergraduate Teaching, 1998
16. Fellow, Agency for Health Care Policy and Research, 1997 to 1999
17. Special Contribution Award, Department of Veterans Affairs, 1996

Organizations and Participation: (Offices held, committee assignments, etc.):

1. Public Health Advisor, Governance Committee of the National Epidemiology, Prognostication and Health Related Impact of CKD (NEPHRIC) Consortium (1 January 2022 to 31 December 2024).
2. Scientist, KK Women's and Children's Hospital (1 March 2021 to 28 February 2023)
3. SingHealth Family Medicine Academic Clinical Programme Research Expert Advisory Panel (October 2020 to September 2023).
4. Duke-NUS Conflict of Interest Management Committee Member (COIMC) (1 April 2020 to 31 March 2023)
5. Health Services & Systems Research (HSSR) Faculty Appointments and Promotion Committee Member (2020)
6. FY2020 TDF & MOH-ISS Research Interview Panel (13 September 2019)
7. Research Scientist, National Heart Centre Singapore (1 April 2019 to 31 March 2025)
8. Committee Member of the Lancet Commission on Global Hearing Loss (2019- present)
9. Committee Member of the Lancet Commission on the Value of Death (2019- present)
10. Invited Member, 3rd Subcommittee for the National Advisory Committee on Cancer (NACC) (2019-present)
11. Ex-Officio Member, Health Services Research Institute Management Committee (HSRIMC), (1 April 2018 to 31 March 2021)
12. SingHealth Advisory Member for Enhancing Innovation Committee (01 Dec. 2018 to present)
13. Duke-NUS Centre of Regulatory Excellence (CoRE) Internal Appointments and Promotions Committee (APC), (15 Nov 2017 to 14 Oct 2019)
14. Singapore Population Health Improvement Centre (SPHERiC), Scientific & Knowledge Translation Committee (SKTC), (1 Aug 2017 to 1 Aug 2021)
15. Ministry of Health Disease Management Workgroup, Diabetes Prevention and Care Taskforce, (19 July 2016 to present)
16. Ministry of Health Disease Management Workgroup, Cancer Prevention and Care Taskforce, (19 July 2016 to 12 June 2019) Singapore Ministry of Health
17. NUS Initiative to Improve Health in Asia (NIHA) Management Committee, (2016 to present)
18. Duke-NUS CORE Internal Appointments and Promotions Committee (APC), (2015)
19. 1st International Public Health Conference in conjunction with the 7th Public Health & Occupational Medicine Conference in (2012)
20. Singapore Hospice Council, (2012 – present)
21. Invited Member to Technical Consultation on Identifying Approaches to Control Obesity, World Health Organization, Melbourne, Australia (11-13 April 2011)
22. Invited member, Regional High-Level Meeting on Scaling up Multi-sectoral Actions for Non-communicable Disease Prevention and Control, World Health Organization, Seoul Republic of Korea (17-18 March 2011)
23. 5th Singapore Public Health & Occupational Medicine Conference, (2010)
24. ISPOR Singapore (2010 – present)
25. Graduate School Program Committee, Duke-NUS Graduate Medical School, (2010 – present)
26. Medical Student Program Committee, Duke-NUS Graduate Medical School, (2010 – present)
27. Institute of Medicine's Committee on Childhood Obesity Prevention Actions for Local Governments,

(2009)

a. Reviewer

1. Singapore Ministry of Health (MOH) New Investigator Grant Review Panel (2021)
2. Ageing and Palliative Care for Temasek Foundation Innovates CLG Limited, (2017-2020)
3. UK Medical Research Council Peer Reviewer, August, 2018.
4. ARF Tier 2 Ministry of Education Grants Review - T24-1901-P06 - *Explaining the rise in healthcare expenditures: Evidence from Singapore*, (2018)
5. National Medical Research Council (NMRC) Health Services Research New Investigator Grant application – “*Understanding factors associated with returning to work after a diagnosis of a chronic disease and/or onset of a disability in Singapore*” (2017)
6. Health Services Research Institute’s (HSRI) Health Services Research and Analytics Technologies for SingHealth (HEARTS) Review Committee, (FY17/18)
7. The National Medical Research Council Local Review Panel (LRP) for the Health Services Research New Investigator Grant (HSR NIG) Scheme, (2013 – 2014)
8. National Center for Injury Prevention and Control, Initial Review Group, (2008)
9. NIH Community Influences on Health Behaviors study section, (2007-2008)
10. NIH Special Emphasis Panel (Social Science and Population Studies), (June 2006)
11. National Science Foundation (2007)

b. Scientific Advisory Board Membership

1. Lifestyle Medicine Economic Research Consortium, (2018 to present)
2. Council of Directors of the True Health Coalition, GLIMMER Initiative
3. Farewell LLC, (2017)
4. Weight Watchers International Inc. (now WW), (2015 to 2022)
5. Virgin Pulse, (2015 to 31 December 2016)
6. Curves International Holdings Inc. and Jenny Craig Inc., (1 June 2014 to 31 January 2015)

c. Editorial Boards

1. Health Psychology, (2010 – 2015)
2. American Journal of Preventive Medicine, (2009 – 2016)
3. American Journal of Health Promotion, (2012 to 2015)
4. Guest Editor for a Special Issue on Behavioral Economic in Health for the journal Health Psychology, (2012)

Previous and Current Teaching and Mentoring Responsibilities:

a. Academic Teaching at National University of Singapore – Lead Instructor

1. Health Economics (one semester annually beginning in 2010)
2. Health Technology Assessment (one semester annually beginning in 2017)

b. Short courses:

1. 3 Day Duke-NUS Executive Education Course Offering: 'Building the Business Case for Health Innovations' (Annually since 2014) – Course developer and Lead Facilitator
2. Virtual 2 day Leadership Course on Health Economics at Singapore Management University (January 2022)
3. Virtual 3-day workshop on Health Technology Assessment for Singapore-ETH Centre (20, 21, 27 Oct 2021)
4. Virtual 1 day Leadership Course on Health Technology Assessment at Singapore Management University (19 May 2021)
5. Co-led a 5 day Leadership Development Programme to regional health policy makers entitled Fostering Effective Health Systems Leadership in an Interconnected World, 3 to 8 December, 2017
6. Modelling Obesity and Economics at University of Alabama, Birmingham in Birmingham, USA (14 May 2014)

7. 4 hour course on Cost-Effectiveness Analysis at Xi'an Jiaotong University in Xi'an, China (21 May 2012)
8. 20 hour course on Comparative Structure and Finance of Health Systems in the Duke-PKU Global Health Certificate Program at Peking University in Beijing, China (13-17 June 2011, 4-8 June, 2012)

c. Mentoring Roles

Ph.D. students:

1. Hendra, NUS Faculty of Dentistry, Member of Research Thesis Committee (2022 to present)
2. Felicia Ang Jia Ler, Duke-NUS Medical School IBM. Program, Primary Supervisor (2019 to present – Primary Advisor)
3. Jamie Jay-May Lo, Saw Swee Hock School of Public Health. Member of Thesis Advisory Committee (TAC). (2020 to present)
4. Chong Jia Loon, Duke-NUS Medical School, Singapore. Member of Thesis Advisory Committee (2016-2020)
5. Kang Wan Chen, Duke-NUS Medical School, Singapore. Member of Thesis Advisory Committee (2015-2019)
6. Tan Pui San, Duke-NUS Medical School, Singapore. Member of Thesis Advisory Committee (2015-2016)
7. Dong Di, Duke-NUS Medical School, Singapore. Primary dissertation adviser (2010-2015 – Primary Advisor). *Di won the best dissertation in Social Sciences award*
8. Yanyi Guan, Saw Swee Hock School of Public Health. Member of Thesis Advisory Committee (TAC). (2014)
9. Jiang Li, University of North Carolina. Member of Thesis Advisory Committee. (2009-2013)

Duke-NUS and Duke University Medical students (2011-present):

1. Parth Chodavadia (Duke University, 2022)
2. Kathy Dai (Duke University, 2022)
3. Sophia Reyes (2021)
4. Celestine Loh Jia Ling (2020)
5. Koh Ling En (2019)
6. Jeselin Putri Andono (2019)
7. Ng Guan Yee (Co-mentor, 2018)
8. Tan Gui Fang, Edlyn (Co-mentor, 2016)
9. Chia May Fen, Yvonne (Co-mentor, 2016)
10. Wu Hong King (2015)
11. Andalib Hossain (2014)
12. Chen Pin Yu, Petty (Co-Mentor, 2014)
13. Wang Hao (Co-Mentor, 2012)
14. Hsuan Lai (Co-Mentor, 2011)
15. Connie Boh (Co-mentor, 2011)
16. Saideep Bose (2010)
17. Tim Khoo (Duke University, 2010)

Duke-Global Health Institute Masters students:

1. Danni Zhao (2017)
2. Jiayang Hong (2017)
3. Junjian Gaoshan (2014)
4. Weixi Jiang (2014)
5. Junyang Wang (2014)
6. Shu Chen* (2014)

NUS SSHSPH:

1. Irene Ooi (2020)
2. Low Ying Liang (2019)

3. Geraldine John (2014)

Areas of research interests: health economics, healthcare financing, behavioral economics, obesity, conjoint analysis.

Summary of Research Support as Principal Investigator at Duke-NUS:

Year	External funding as Principal Investigator at Duke-NUS (SGD)
2009	93,262
2010	-
2011	339,700
2012	1,299,400
2013	343,248
2014	11,270,976
2015	2,246,606
2016	1,062,604
2017	2,698,155
2018	601,668
2019	10,989,045
2020	1,099,222
2021	367,026
2022	67,256
TOTAL	32,043,887

Pending Research Report:

Current Research Support as PI or Site PI (by year of award):

2022

1. Grant: 2022-0088

20/01/2022 – 30/06/2022

World Bank Group

Total Value Awarded: SGD \$67,256

Development and Implementation of Discrete Choice Experiment Study on Incentives for Physical Activity in Saudi Arabia

The objective of the project is to support King Faisal Specialist Hospital and Research Center, the Saudi Public Health Authority, the Saudi Health Council, and the Ministry of Health's Behavioral Sciences Team in the survey development, experimental design, and analysis of a discrete choice experiment (DCE) survey aimed to explore factors that may increase physical activity among the Saudi population. We will use the DCE to explore take-up rates for physical activity programs that vary among select attributes, including various reward programs.

Role: Principal Investigator

2021

1. Grant: COVID19TUG21-0012

01/12/2021 – 30/04/2022

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$100,000

COVID-19 Top-up Grant for A Randomized Trial to Slow the Progression of Diabetes (The TRIPOD Study)

The research objective of this one-year, three-arm randomized controlled trial is to test whether an evidence-based, low-cost mobile diabetes management package (DMP), with or without an incentive programme grounded in economic theory (M-POWER Rewards), can cost-effectively improve health outcomes for those with type 2 diabetes. Due to COVID, additional funding was granted to complete the study.

Role: Principal Investigator

2. Grant: 2021-2464

31/12/2021 – 30/04/2022

Novo Nordisk Pharma (Singapore) Pte Ltd

Total Value Awarded: SGD \$60,000

Economic Burden of Obesity in Singapore

This research aims to estimate the economic burden of excess weight in Singapore arising from increased healthcare utilisation and reduced work productivity. Based on a retrospective analysis a unique dataset, we will estimate the average per capita and total direct medical and indirect costs associated with overweight and obesity among Singaporeans aged 40 years or older, where the burden is largest. These findings will result in a publication that will be used to stimulate discussion on how best to prevent and treatment overweight and obesity in the city state.

Role: Principal Investigator

3. Grant: 2021-2411

27/12/2021 – 15/09/2022

Boston Scientific

Total Value Awarded: SGD \$65,000

Cost-Effectiveness and budget impact analyses of Rezum™ for benign prostatic hyperplasia (BPH) in Singapore

This research aims to evaluate the incremental cost-effectiveness of Rezum™ compared to pharmacotherapy (Alpha-Blockers, and 5-Alpha Reductase Inhibitors), other minimally invasive (prostatic urethral lift; PUL) and invasive surgical treatments (Transurethral Resection of the Prostate; TURP), for treating moderate-to-severe BPH in Singapore. Effectiveness will be measured in terms of quality-adjusted life years (QALYs). The cost-effectiveness analysis will be performed from the Singapore healthcare system perspective over a lifetime horizon, consistent with best practices.

Role: Principal Investigator

4. Grant: 7202186

01/09/2021 – 31/05/2022

World Bank Group

Total Value Awarded: SGD \$67,026.45

Phase 3: Evaluating A Promising Food Policy Intervention Using NUSMart: A Sin-Tax Scheme

KSA recently introduced an excise tax on beverages in response to increasing rates of obesity and diabetes. The goal of this project is to evaluate the existing and/or new tax policies for Saudi Arabia using our NUSMart online grocery store.

Role: Principal Investigator

5. Grant: NMRC/HCE/2021

01/08/2021 – 28/02/2022

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$75,000

EVALUATION OF OUTCOMES OF HEALTHCARE RESEARCH Commissioned Study: Disability-Adjusted Life Year/Quality-Adjusted Life Year (DALY/QALY) Analysis Part 2

This research aims to evaluate the health outcomes, in terms of adjusted life years gained, of healthcare research grants that have been awarded to Investigators in Singapore by government funding bodies. The hypothesis to be tested is that there is a 1% improvement in disability-adjusted /quality-adjusted life years resulting from potential policy changes that arose from the healthcare research conducted.

Role: Principal Investigator

2020

1. Contract: 7197919

15/11/2020 – 30/09/2021

World Bank Group

Total Value Awarded: SGD \$68,178

Phase 2: Evaluating Promising Food Policy Interventions Using NUSMart

The goal of this project is to evaluate promising front-of-pack nutrition labels for Saudi Arabia using a randomized controlled trial and our NUSMart online grocery store. We conducted a three-arm hypothetical online shopping study with 656 KSA residents to estimate the effects of 1) Chilean warning label and 2) modified Nutri-Score label relative to no-label control condition.

Role: Principal Investigator

2. Contract: LCPCVC-2020-002

01/10/2020 – 31/03/2021

Singapore Eye Research Institute (SERI)**Total Value Awarded:** SGD \$30,000***Quantifying the Economic Burden of Eye Diseases in Singapore***

The goal of this project is to use existing survey data provided by the Singapore Eye Research Institute to quantify the economic burden of major eye diseases in Singapore.

Role: Principal Investigator

3. Grant: 2020-SMF-0006

01/09/2020 - 31/08/2022

Temasek Foundation**Total Value Awarded:** SGD \$99,300***Survival Expectations and Hope among Advanced Cancer Patients in Singapore 2.0 (SHAPE 2.0)***

With prior funding from Temasek Foundation Innovates, we showed that patients with advanced cancer are susceptible to common biases in judgement and that these biases are amplified by greater levels of hope. The goal of this effort is to extend our prior analysis by linking the survey data we previously collected to medical records and death statistics to test whether patients who report greater levels of hope are also more likely to pursue aggressive end-of-life treatments and whether pursuit of these treatments leads to any survival advantage or merely increases costs.

Role: Principal Investigator

4. Contract: 2021-0823

28/05/2020 – 31/03/2022

AstraZeneca (Singapore) Pte Ltd**Total Value Awarded:** SGD \$70,000***Cost-Effectiveness of Lokelma (ZS) for the management of hyperkalaemia in CKD Patients in Singapore***

The goal of this effort is to (1) customize a cost-effectiveness model of Lokelma (ZS), developed by AstraZeneca, for use in Singapore and (2) evaluate its cost-effectiveness for managing hyperkalaemia in patients with chronic kidney disease from the payer perspective.

Role: Principal Investigator

5. Grant: 2021-ETH-0001-EF

01/03/2020 – 28/02/2022

ETH Singapore SEC Ltd**Total Value Awarded:** SGD \$352,175***Future Health Technologies (FHT): Module 4: Health Data Governance and Value Creation***

Health Technology Assessments (HTAs) seek to understand the value proposition for the different technologies developed in the other modules of this programme. The objectives of this project are: (1) to advise FHT Modules 1 to 3 in a consulting capacity on which types of HTA analyses are most appropriate given the goals of the technology and on when these analyses should be conducted in the product life-cycle; and (2) to take the lead role in performing the agreed upon analyses with significant input from the Module leads.

Role: Duke-NUS Principal Investigator

6. Grant: 2020-0548

01/03/2020 – 28/02/2021

Duke Global Health Institute (DGHI)**Total Value Awarded:** SGD \$34,700***African Patient Perspectives Regarding Oncology Awareness, Care, & Health (APPROACH-MTRH)***

APPROACH, which stands for Asian Patients Perspective regarding Oncology Awareness, Care and Health, to date has been fielded in 14 hospitals across 10 countries in Asia. It is a cross-sectional survey that systematically captures key dimensions of the end of life experience for patients with advanced illness, including quality of life, levels of pain and distress, use of life-extending treatments, palliative care and non-traditional medicines, treatment decision-making, and multiple dimensions of quality of care. The results provide insights into the challenges that patients with advanced illness face and help identify and advocate for areas for improvement. This study aims to expand our Asia focused APPROACH study to Africa, starting with Moi Teaching and Research Hospital (MTRH).

Role: Principal Investigator

7. Grant: NMRC/HCE/2020

01/02/2020 – 31/08/2020

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$75,000

Evaluations of Healthcare Outcomes Research: Disability-Adjusted Life Year/Quality-Adjusted Life Year Analysis (DALY/QALY)

The focus of this study is to evaluate the effectiveness and cost-effectiveness of healthcare research grants that have been provided to healthcare institutions in Singapore. The objective is to determine whether the research grants have resulted in policy changes that have brought about DALY/QALY improvements in Singapore and beyond. This will be done by analyzing existing data from a survey conducted by National Medical Research Council that reports policy and practices changes resulting from funded research and then modelling the benefits of these changes to quantify the DALY/QALY savings.

Role: Principal Investigator

7. Grant: LF-QODI2020

01/01/2020 – 31/12/2021

Lien Foundation

Total Value Awarded: SGD \$300,000

Quality of Death Index 2020

The focus of this project is to update prior QODI indices to again rank countries in their ability to deliver high quality end of life care. This includes identifying core measures that determine how well a country is faring with regard to access, quality and affordability of palliative care, developing an online tool for countries to benchmark their progress against other countries and across time, presenting best practices from higher and lower income countries, discussing trends in palliative care delivery, and using the results to raise awareness of key issues likely to affect the delivery of end of life care. This effort will be completed via a literature review, qualitative interviews, a discrete choice experiment with qualified professionals to assign survey weights, and a data collection exercise to populate the QODI tool across countries.

Role: Principal Investigator

2019

1. Grant: 2019-SMF-0005

01/11/2019 – 31/07/2022

Temasek Foundation

Total Value Awarded: SGD \$146,335

A comparison of healthcare utilization, costs and the provision of low-value care in patients with and without evidence of cognitive impairment in the last year of life.

Healthcare utilization, associated costs, the appropriateness of care and any differences in these outcomes between patients with and without evidence of cognitive impairment in the last year of life are poorly understood. How co-morbidities affect these outcomes/ differences is also unknown. We aim to quantify these outcomes/ differences using MOH Mediclaims utilization and cost data and linking a subset of this data to the Singapore Chinese Health Study. The findings will allow for a better understanding of end-of-life experiences, forecasting of future costs/ utilization, appropriate setting of subsidies and identification of opportunities to improve end-of-life care for patients with evidence of cognitive impaired.

Role: Principal Investigator

2. Grant: N-911-000-004-001

01/10/2019 – 30/09/2025

Lien Foundation, SingHealth Foundation, and National Cancer Centre Singapore

Total Value Awarded: SGD \$9,750,000

The Lien Foundation, SingHealth Foundation, and National Cancer Centre Singapore have provided funding to support a Centre of Excellence in Palliative Care housed within the Duke-NUS Graduate Medical School. The Lien Centre for Palliative Care (LCPC) mission focuses on developing and delivering traditional and blended learning palliative care education programs targeted physicians and allied health professionals, initiating and incubating high value research projects, and engaging with key stakeholders in Singapore and the region in efforts to enhance the end of life experience for patients and caregivers. This funding supports Phase 3 of LCPC for 6 years.

Role: Principal Investigator

3. Grant: MOH-000263 (MOH-HSRGHP18may-0002)

01/08/2019 – 31/07/2022

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$549,730

Using the Multiphase Optimization Strategy to Improve Diet Quality (MOSTDQ)

This study proposes to apply the Multiphase Optimization Strategy (MOST) framework and our fully functional web-based grocery store (NUSMart), containing over 4,000 products, to design a multicomponent intervention aimed to cost effectively improve diet quality (Aim 1). We will then conduct a 2-arm randomized controlled trial to test whether the assembled multicomponent intervention has a sustained positive effect on diet quality over repeated purchases (Aim 2).

Role: Principal Investigator

4. Contract: 2018-2126

01/06/2019 – 31/07/2020

AstraZeneca (Singapore) Pte Ltd

Total Value Awarded: SGD \$53,000

Economic Burden of Asthma in Singapore

The study aims to estimate the per capita and total direct healthcare and societal (e.g., costs to patients, to social services, to employers in the form of productivity losses, to family and friends via informal care as well as direct healthcare costs) burden due to asthma for Singaporean children and adult populations, stratified by disease severity.

Role: Principal Investigator

5. Grant: SERI-2019

01/03/2019 – 31/12/2020

Singapore Eye Research Institute (SERI)

Total Value Awarded: SGD \$200,000

Health Economics Agenda and Economic Studies for Ophthalmology Research

Duke-NUS will identify and execute five health economic studies. The studies identified are: (1) Use of a Discrete Choice Experiment (DCE) to Develop a Glaucoma-Specific Health Utility Measure, (2) Incremental Cost-Effectiveness of Optical Coherence Tomography (OCT) to screen for Glaucoma among High-Risk Patients, (3) Artificial Intelligence for Teleophthalmology-Diabetic Retinopathy Screening in a National Program: A Cost Minimization Analysis, (4) A Cost Effectiveness Analysis of Artificial Intelligence for Teleophthalmology-Diabetic Retinopathy Screening in Singapore, and (5) Healthcare related Quality of Life and Economic Burden of Myopia.

Role: Principal Investigator

6. Grant: NIHA-2018-002

01/02/2019 – 31/01/2023

NUS-Global Asia Institute NIHA Research Grant

Total Value Awarded: SGD \$249,980

Randomized Trials of Low-Cost Behavioral Economic (BE) Strategies to Address Rising Rates of Chronic Disease (TEH-C and DINE)

The focus of this application is to conduct two randomized controlled BE trials, one focusing on physical activity (PA) and the other on food purchasing. TEH-C tests a novel hedonic rewards strategy for increasing PA that behavioral economic theory posits may work better than cash. DINE explores the effect of real-time feedback and injunctive norm-based messaging with and without financial incentives to encourage the purchase of healthy foods in an online grocery store setting. Each strategy is low cost and highly scalable with the potential for a significant public health impact in Singapore and the region if successful.

Role: Principal Investigator

2018

1. Grant: 1R01DK115939-01A1 (PI: Herring)

01/09/2018 – 30/06/2023

National Institute of Diabetes and Digestive and Kidney Diseases

Total Direct Costs: USD \$485,849 (\$34,888 Duke-U. subcontract)

Partnering with WIC to prevent excessive weight gain in pregnancy

We propose a pragmatic trial design in which we will intervene during pregnancy in Urban (Philadelphia) and rural (Durham) WIC clinics, using WIC resources. The proposed project will constitute the first translation of a comprehensive antenatal obesity treatment program focused exclusively on low-income, ethnic minority mother, using strengths of mHealth and WIC provider counselling for intervention delivery

Role: Co-Investigator

2. Grant: 2018-SMF-0004

01/09/2018 – 31/08/2021

Temasek Foundation Innovates

Total Value Awarded: SGD \$150,928

Survival Expectations and Hope among Cancer Patients at End-of-Life (SHAPE)

The primary aim of this study is to discern patient's beliefs about prognosis independent of hope. Secondary Aims are to 1) identify factors that influence patient's beliefs, 2) explore whether and how patients would like to receive prognostic information and 3) the percentage who received the information the way they would have liked. We address these aims by randomizing cancer patients with a prognosis of less than one year to receive one of two versions of a survey. Version 1 includes prognosis questions similar to those used in prior studies. Version 2 includes identical questions but incorporates an incentive compatible strategy where a reward is offered for 'correct' answers, as determined by their treating physician's prediction. We hypothesize that, although many patients will continue to be overly optimistic about their prognosis, those patients responding to Version 2 will provide more accurate estimates.

Role: Principal Investigator

3. Grant: 2018-0666/2020-0760

26/06/2018 – 30/06/2021

Sysmex Pte Ltd

Total Value Awarded: SGD \$48,150

Cost-effectiveness analysis of Sysmex Point-of-Care diagnostic tool in Indonesia.

To propose a health economics research agenda and conduct one cost-effectiveness analysis (CEA) in support of Sysmex lines of business. The CEA may focus on the POC diagnostic tool or other Sysmex technologies and will be finalized after a presentation of the research agenda and discussions with Sysmex leadership.

Role: Principal Investigator

4. Grant: 2019-0750

01/04/2018 – 28/02/2022

KK Women's and Children's Hospital Pte Ltd

Total Value Awarded: SGD \$222,528

Cost Containment in Pharmacogenomics Testing, Identifying Obstacles to Implementation of Pharmacogenomics and Impact on Anticonvulsant Prescription Patterns

This study aims to improve frontline adoption of pharmacogenomic testing for HLA-B*1502 allele by improving speeds and reducing costs of point-of-care testing. In collaboration with KK Women's and Children's Hospital, NanoBio Lab, and Singapore General Hospital, we will (1) clinically validate a novel rapid HLA-B*1502 testing system, (2) evaluate its impact on anticonvulsant prescription patterns compared to existing testing practices from a cost-effectiveness perspective, and (3) quantify user preferences for the genetic test via a discrete choice experiment survey.

Role: Principal Investigator

2017

1. Grant: NMRC/HSRG/0079/2017

12/10/2017 – 30/04/2022

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$1,631,294.20

A Randomized Trial to Slow the Progression of Diabetes (The TRIPOD study)

We will conduct a three arm randomized controlled trial to test whether a low cost mobile diabetes management application (DMAPP), with or without an incentive program (INCENT), can improve blood sugar levels at 12 months as measured by HbA1c levels (primary) among those with type 2 diabetes. We hypothesize that DMAPP will improve HbA1c relative to control but that the greatest improvements will occur for those exposed to both interventions (DMAPP+INCENT). Similar hypotheses will be tested for secondary outcomes, including proportion of participants progressing to treatment with insulin, weight, blood pressure, physical activity, dietary outcomes, glucose monitoring, number of medications, and medication adherence. All outcomes will be tested at baseline, 6, 12, 18, and 24 months. We will also quantify the incremental cost effectiveness of DMAPP and DMAPP+INCENT and the net cost implications of both from a third party payer's perspective.

Role: Principal Investigator

2. Grant: GPMOHPREDIC1 (PI Bee)

01/08/2017 – 31/07/2022

Singapore Ministry of Health (MOH)

Funding Amount: SGD \$4,245,251

The Pre-Diabetes Interventions and Continued Tracking to Ease-out Diabetes Programme (The PreDICTED Programme)

The proposed study will evaluate the effectiveness of a community-based large-scale prevention programme (PreDICTED) in reducing the rate of progression from pre-DM to DM through a large scale randomized controlled trial. This proposal study will evaluate the effectiveness and cost effectiveness of the PreDICTED intervention compared to usual care over the 3 year intervention period.

Role: Co-Investigator

3. Grant: 1R01-DK109696-01A1 (PI Bennett)

01/02/2017 – 31/01/2021

US National Institute of Health (NIH)

Total Value: USD \$445,668

Optimizing a standalone text messaging-based weight loss intervention

This experimental trial among 592 obese adults will include a core 6-month weight loss texting intervention that includes tailored behavior change goals, interactive self-monitoring, automated feedback, and skills training. Using a fractional factorial design, participants will be randomized to one of 16 experimental conditions that will test the text messaging components.

Role: Co-Investigator

2016

1. Grant: 5R18-DK109518-2 (PI Bennett)

01/05/2016 – 30/04/2021

US National Institute of Health (NIH)

Total Value: USD \$435,182

A Pragmatic Trial of a Digital Health Intervention to Prevent Weight Gain in Primary Care

This pragmatic trial conducted in a rural community health center system will test the effectiveness of a 12-month weight gain prevention intervention consisting of self-monitoring and feedback via interactive voice response and/or text messaging, tailored skills training, and responsive coaching.

Role: Co-Investigator

2. Grant: 1R01HL130816-01 (PI Herring)

15/01/2016 – 31/12/2020

US National Institute of Health (NIH)

Total Direct Costs: USD \$514,775 (USD \$26,477 Duke U. subcontract)

Community-based obesity treatment in African American women after childbirth: a randomized controlled trial of WIC mothers

This project aims to reduce disparities in obesity by implementing and evaluating a novel community-based behavioral weight loss intervention in African American WIC participants during the first postpartum year.

Role: Co-Investigator

2015

1. Grant: 2015-SMF-0003 / LCPC-IN14-0003

Singapore Millennium Foundation

24/12/2015 – 23/06/2019

Total Value Awarded: SGD \$749,922

Lien Centre for Palliative Care Incubator Research Award

18/06/2016 – 17/01/2023

Total Value Awarded: SGD \$579,000

Costs and Medical Care of Patients with Advanced Serious Illness in Singapore (COMPASS)

This is a longitudinal study which aims to prospectively capture health care utilization, cost, and quality of life indicators from 600 patients with advanced cancer using both administrative and survey data collected until patient's death. Patients and their caregivers are interviewed by the research team at baseline and subsequently at every three months until the patient's death. Additionally, the study recruits patient's treating physician. After patient's death, caregivers are asked to complete a questionnaire at 8 weeks and 6 months after patient's death assessing bereavement adjustment. This study is being conducted at National Cancer Centre, National University Hospital and Tan Tock Seng Hospital.

Role: Principal Investigator

Completed Research Support (2006 to present):

2020

1. **Contract: 7196065**

01/03/2020 – 30/06/2020

The World Bank

Total Value Awarded: SGD 69,869.98

Phase 1: Applications of Experimental Studies to Assess Policies Aimed to Improve Diet Quality in Saudi Arabia

This project aims to provide a research plan to rigorously assess promising policies aimed to improve diet quality in Saudi Arabia. Policies to consider include both tax and labelling policies.

Role: Principal Investigator

2019

1. **Contract: 2018-2135**

29/04/2019 – 31/03/2020

Roche Singapore Pte Ltd

Total Value: SGD \$40,000

Recurrence and Associated Direct Medical Costs in HER2-Positive Early Breast Cancer Patients in Singapore

The study aims to (1) establish the recurrence rate over the longest follow-up possible for HER2-positive early breast cancer in Singapore, (2) establish the recurrence rate over the longest follow-up possible for HER2-positive early breast cancer in multiple sub-groups of interest, including patients with/without lymph node positive and/or hormone receptor positive/negative breast cancer, (3) compare the rate of recurrence over the longest follow-up possible for HER2-positive early breast cancer in patients receiving different anti-cancer treatment regimens in the neo-adjuvant and/or adjuvant setting, and (4) estimate the direct medical costs incurred after recurrence of breast cancer in Singapore.

Role: Principal Investigator

2018

1. **Grant: 2018-0776**

15/07/2018 – 14/10/2019

Novartis Singapore Pte Ltd

Total Value Awarded: SGD \$40,000

Cost-Effective Analysis of Combination Therapy (Ranibizumab + visudyne (verteporfin) photo dynamic therapy (vPDT)) vs Ranibizumab Monotherapy for PCV patients in Singapore

Asian AMD patients have a higher proportion of PCV diagnosis compared to their western counterparts (Maruko et al., 2007). A recent publication on the use of combination therapy (ranibizumab + vPDT) vs ranibizumab monotherapy showed significant VA gain for patients in the combination therapy arm (Koh et al., 2017). This study suggests that combination therapy may be beneficial for patients with PCV. The cost effectiveness of combination treatment has not been conducted to date. The primary objective of this study is to assess the cost effectiveness of combination therapy (Ranibizumab +vPDT) compared to Ranibizumab monotherapy for PCV patients in Singapore in terms of cost per QALY gained.

Role: Principal Investigator

2. **Grant: 2018-0624**

04/07/2018 – 31/12/2019

Weight Watchers International, Inc

Total Value Awarded: USD \$30,000 (SGD \$40,142.08)

Participation, Weight Loss, and Financial Implications to City of New York's Weight Management Initiative

As an independent evaluator, Duke-NUS will estimate the savings generated due to weight loss to beneficiaries of Weight Watchers in NYC. Apply the estimated medical expenditure changes from the Cawley et al model (Savings in medical expenditures associated with reductions in body mass index among US adults with obesity, by diabetes status. *PharmacoEconomics* 2015; 33:707-722) to predict savings in medical expenditures based on baseline BMI and amount of weight loss, for participants with and without diabetes. Complete the analysis on data pulled between June 1, 2016-August 21, 2017 (15 months). The evaluation period will be 12 months (June 1, 2016-May 31, 2017). Estimate differential savings based on members' program type (online or worksite/community meetings), members' starting BMI and members' amount of weight loss.

Role: Principal Investigator

3. Grant: Novartis Singapore Pte Ltd (2018-0099)

Total Value Awarded: SGD \$49,920

01/03/2018 – 31/12/2019

Migraine Project: Economic Burden of Migraine in Singapore

Migraine, a common disabling primary headache disorder, is often misconceived as a low-impact condition, despite being ranked among the twenty most disabling illnesses worldwide. It imposes a substantial economic burden on society due to healthcare resource utilization and lost productive time. This study aims to quantify the economic burden of migraine in Singapore, and estimate the incremental costs borne by migraine-sufferers compared to migraine-free respondents, using an on-line web-panel.

Role: Principal Investigator

4. Grant: N-911-000-014-001

14/02/2018 – 03/03/2020

NUS-Global Asia Institute NIHA Research Grant (NIHA)

Total Value Awarded: SGD \$50,000

Digital Health as an Enabler of Healthy Ageing in Asia

The study aims to provide a comprehensive overview of healthcare technologies that could enable healthy ageing with relevant case studies in Asia and discuss opportunities and challenges to member of the ecosystem, i.e. healthcare service providers, policy makers and regulatory professionals, and patients and caretakers.

Role: Principal Investigator

2017

1. Grant: Roche Singapore Pte Ltd

16/10/2017 – 15/04/2018

Total Value Awarded: SGD \$34,775

Drug Pricing Policies in Asia-Pacific Countries

In efforts to contain rising public sector expenditures on prescription medicines, many APAC countries have adopted formal and informal pharmaceutical pricing strategies. This narrative review describes the most commonly used strategies, including a detailed examination of the use of International Reference Pricing (IRP) in sixteen APAC countries.

Role: Principal Investigator

2. Grant: HSRGEoL16Dec001

12/10/2017 – 31/01/2020

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$209,492

Tailoring Health Communication Materials to Improve Decision Making of Elderly ESRD Patients (RE-TREAT)

The goal of this proposal is to explore and improve decision-making among older ESRD patients. Aim 1 proposes to conduct a qualitative study of ESRD patients to explore factors that were influential in their decision to choose a form of dialysis or CM, information that they would have liked to know, their treatment experiences, and whether and to what extent they may have experienced decision regret. Aim 2 uses the results of Aim 1 to develop a new set of counselling material, including printed material and a video with patient testimonials, to be used as patient decision aids, specifically for elderly ESRD patients. Aim 3 evaluates the patient decision aids from Aim 2 in a Phase II trial, using stated choice (primary) and revealed choice (secondary). If the results from Aim 3 suggest the new information is superior, they will be further tested in a longer term study that focuses on real, as opposed to stated, choices.

Role: Principal Investigator

3. Grant: NMRC/CTGIITL/0001/2014 (PI Sng)

12/10/2017 – 11/06/2020

Singapore Ministry of Health (MOH)

Total Value of SGD \$54,570

Collaborative Outcomes with Labour Epidural Use (COLEUS) Study

The objective of this collaboration is to investigate the value of epidural pumps that are developed by Dr Sng's group at KKH. We will develop a discrete choice experiment (DCE) survey to estimate women's willingness to pay for reducing chances of breakthrough pain, motor block, instrumental delivery and postpartum depression.

Role: Co-Investigator

4. Grant: NMRC/HSRG/0060/2016

08/02/2017 – 29/02/2020

Singapore Ministry of Health (MOH)

Total Direct Costs: SGD \$685,495.03

Multiphase Evaluation of Healthier Choice Symbol (HCS) Logo

In efforts to promote a healthy diet, in 2001 the Singapore Health Promotion Board (HPB) supplemented traditional nutrition labelling with the Healthier Choice Symbol (HCS), which identifies food items within a specific category of foods (e.g., Sugar-Sweetened Beverages) as healthier choices. In 2009, HPB introduced enhanced versions of the HCS, although some firms continue to use the original logo. The study aims to assess the role of the HCS logos in influencing food choice.

Role: Principal Investigator

2016

1. Grant: Research Collaboration Agreement - Ref: 2016-1595

06/12/2016 – 05/06/2018

NUS/SingHealth Polyclinics/ KKT Technology Pte Ltd

Total Value Awarded: SGD \$62,632

A single arm feasibility study of Glyco Leap, an on-line lifestyle modification and self-management program for people with Type 2 diabetes

This feasibility study will explore the use of Glyco Leap, a proprietary online lifestyle modification and self-management education program developed by Holmusk, Singapore for people with type 2 diabetes, as an add-on to primary care delivered through the SingHealth Polyclinic at Tampines. The goal of the study is to test whether patients with diabetes who receive care at the clinic are amenable to such an intervention, to quantify program fidelity for those who do enroll in the study, and to explore the extent to which the intervention can be used in conjunction with primary care in efforts to improve health outcomes. If results are promising, a randomized controlled trial will follow.

Role: Principal Investigator

2. Grant: NMRC/HSRG/0053/2016

01/10/2016 – 31/10/2019

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$999,972

Singapore cohort of patients with advanced heart failure (SCOPAH)

Congestive heart failure (CHF) is one of the leading causes of death in Singapore. Although anecdotal data suggests that end-of-life (EOL) care that patients with advanced CHF receive is sub-optimal, limited data is available that assesses the EOL experience of patients and that can be used to identify specific areas for improvement. Further, advance care planning, a promising intervention recently introduced in Singapore to enable patients with life limiting illnesses, including those with advanced CHF, to receive EOL treatments according to their own preferences, has not been systematically evaluated. This project thus aims to (1) enroll 250 patients with advanced CHF and follow them for a period of one year or till they die, to assess their EOL experience and to identify specific areas for improvement; and to (2) conduct a randomized controlled trial of 250 patients with advanced CHF to assess whether patients receiving ACP are more likely to receive EOL care consistent with their preferences. Results from this project will provide recommendations for ways to improve EOL care for patients with advanced CHF and test the effectiveness of ACP.

Role: Principal Investigator

2015

1. Grant: MR/N006178/1 (PI Tazeen)

01/09/2015 – 31/08/2018

UK Medical Research Council/Department for International Development

Total Value Awarded: £1,992,221

Primary Care Strategies to Reduce High Blood Pressure: A Cluster Randomized Trial in Rural Bangladesh, Pakistan and Sri Lanka (COBRA-BPS)

This is a cluster randomized controlled trial (RCT) in 30 rural communities in Bangladesh, Pakistan and Sri Lanka aimed at reducing BP levels of individuals with hypertension (systolic BP ≥ 140 mm Hg or diastolic BP ≥ 90 mm Hg, or on antihypertensive therapy). The RCT will enrol 2550 individuals aged 40 years or older

with hypertension in these communities to evaluate the effectiveness and cost-effectiveness of a “multi-component strategy (MCI)”.

Role: Co-Investigator

2. Grant: NMRC/HSRNIG/0013/2016 (PI Ozdemir) 07/07/2015 – 31/07/2018

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$99,920

Randomized Controlled Trial of a Physical Activity Program for Teenagers (FIT-TEEN)

Childhood obesity is one of the major challenges in developed countries, including Singapore. One of the main reasons behind growing childhood obesity is low levels of physical activity, and children may be patterning their levels of inactivity after their parents. Physical activity interventions that target children and parents could have a significant public health impact. Incentives for meeting activity goals can be effective in promoting sustained levels of physical activity. We propose to test two types of incentive strategies (fixed threshold versus a dynamic threshold based on peer effects). We also hypothesize that the average number of steps taken by children will be higher when families are compared to other families in terms of physical activity than when they are not compared to other families.

Role: Co-Investigator

3. Grant: NMRC/HSRNIG/0007/2015 07/07/2015 – 31/07/2017

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$99,745

The Role of Risk Factors in Influencing Inpatient Utilization and Costs: Evidence from linked Singapore Chinese Cohort Data

As the country becomes wealthier and its population ages, Singapore is facing a dual health challenge. It wants to expand access to insurance coverage and subsidy for its people, and at the same time, find ways to control healthcare costs. Thus far, the government has been proactive in responding to this dual challenge. Recent policy efforts expanded coverage to accommodate those with low incomes and the elderly. In particular, changes have been proposed for MediShield to cover the entire population. These policy changes raises the need to address a number of issues related to the costs of expanded access and more generally, to identify strategies to control costs. This research aims to quantify elderly’s inpatient costs during their aging years and at their end-of-life stage, with a focus on the cost burden associated with risk factors (such as smoking, obesity, drinking) and chronic diseases.

Role: Mentor for new investigator

4. Grant: NMRC/HSRG/0052/2015 (PI Bilger) 20/06/2015 – 30/06/2019

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$490,285

Randomized control trial to improve hypertension outcomes using wireless home blood pressure monitoring with automatic outcome-based feedback and financial incentives

We propose a 6-month randomized controlled trial with 228 hypertensive patients with uncontrolled blood pressure from the Singhealth Polyclinic in Bedok, Singapore. The proposed trial will have three equal sized and parallel study arms in order to measure the incremental effectiveness and cost-effectiveness of an intervention with wireless HBPM and automatic outcome-based feedback with and without financial incentives compared to HBPM alone.

Role: Co-Investigator

5. Grant: 2R01DK056746-14 (Harvey/West) 01/04/2015 – 31/03/2020

US National Institute of Health (NIH)

Total Direct Costs: USD \$688,924

Internet Assisted Obesity Treatment: Enhanced by Financial Incentives

The major goal of this randomized controlled trial is to determine whether incorporating financial incentives increases the amount and duration of weight losses achieved by Internet-delivered behavioral treatment. A secondary, exploratory aim is to quantify the incremental cost-effectiveness of each intervention strategy compared to established cost-efficacy thresholds. Overweight and obese adults at two study sites (N=416; 27% minority) will randomized to: (1) Internet intervention; or 2) Internet

intervention plus financial incentives for implementation of key self-management behaviors (daily self-weighing, self-monitoring of dietary intake and achieving step goals) (Internet+Incentives). Measures of body weight, treatment engagement (e.g., attendance, self-monitoring, website utilization, motivational factors, weight control behaviors) and treatment delivery cost will be obtained over an 18-month period.

Role: Consultant

6. Grant: NMRC/HSRG/0048/2015

25/02/2015 – 31/08/2018

Singapore Ministry of Health (MOH)

Total Direct Costs: SGD \$540,457

Randomized Controlled Trial of an Incentive-based Physical Activity Program targeting both children and adults (FIT-FAM)

There is overwhelming evidence that sustained physical activity reduces the risk of many common diseases. Yet, data reveals low levels of physical activity among working age adults and their children in Singapore. One strategy that has been successfully employed to influence behaviors of parents is to use their children as an intermediary. This strategy has a successful track record in public health, where children have helped their parents quit smoking and wear seatbelts. In this study we propose to test whether children can promote increased physical activity of a working parent at the same time that they increase their own activity level. This proposal is an extension of a prior study where we showed that modest financial incentives can increase physical activity levels among youth. We now propose to conduct a follow-on trial where the reward is tied not only to the child's own steps, but to that of their parents. Rewards will be based on step activity measured through a state-of-the-art wireless step counter. Just as children were motivated to increase their own activity levels in efforts to achieve the incentive, we hypothesize that they will also be effective advocates for increasing the activity levels of their parents.

Role: Principal Investigator

2014

1. Grant: 1R01HL125487-01A1

01/12/2014 – 30/11/2019

PI Rajesh Vedanthan, MD MPH, Mount Sinai School of Medicine (MSSM)

US National Institute of Health (NIH)

Total Value Awarded: USD \$3.4M (Duke PI Finkelstein – total value of Duke sub grant – USD \$260K)

Bridging Income Generation with Group Integrated Care (BIGPIC)

Cost-effective, context-specific, and culturally appropriate interventions are critical to reduce risk factors for CVD in LMICs, and both group medical visits and microfinance have the potential to achieve this. In partnership with the Government of Kenya, the Academic Model Providing Access to Healthcare Partnership has expanded its clinical scope of work in rural western Kenya to include diabetes and hypertension, and has piloted group care and microfinance initiatives with promising early results. However, the effectiveness of these strategies individually, and in combination, on improving CVD risk is not known. Thus, the overall objective of this proposal is to utilize a transdisciplinary implementation research approach to address the challenge of reducing CVD risk in low-resource settings via a group randomized controlled trial.

Role: Co-Investigator

2. Grant: AG-2014-001

27/11/2014 – 22/02/2019

National University of Singapore GAI Aging Cluster

Total Value Awarded: SGD \$320,000

Encouraging Healthy Nutrition Purchases in an Online Grocery Setting using Experimental Economics (NUSMart)

This study proposes to develop an online grocery store and enroll participants to make their typical grocery purchases through this store. Using the information gathered from the participants' purchasing behavior, this proposal will apply experimental economic methods to test the extent to which food purchasing behavior can be positively influenced through a series of nutrition information and/or incentive-based interventions. The findings from this research can be used by policymakers in efforts to improve the value of nutrition information to discourage unhealthy food consumption, and by insurers and others looking to design value-based programs that reward participant's for healthier food purchases.

Role: Principal Investigator

- 3. Grant: N-911-000-004-001** 01/10/2014 – 30/09/2019
Lien Foundation, SingHealth Foundation, and National Cancer Centre Singapore
Total Value Awarded: SGD \$9,750,000
The Lien Foundation, SingHealth Foundation, and National Cancer Centre Singapore have provided funding to support a Centre of Excellence in Palliative Care housed within the Duke-NUS Graduate Medical School. The Lien Centre for Palliative Care (LCPC) mission focuses on developing and delivering traditional and blended learning palliative care education programs targeted physicians and allied health professionals, initiating and incubating high value research projects, and engaging with key stakeholders in Singapore and the region in efforts to enhance the end of life experience for patients and caregivers. This funding supports Phase 2 of LCPC for 5 years.
Role: Principal Investigator
- 4. Grant: MOH (HLTHQ0ECO14000206/1)** 21/08/2014 – 26/01/2015
Singapore Ministry of Health (MOH)
Total Value Awarded: SGD \$52,000 (Duke-NUS SGD \$13,000)
ITQ for the provision of analysis services to estimate return of investments in eye research in Singapore to Ministry of Health
Develop a model to estimate return on investment in eye research by Singapore Ministry of Health (MOH).
Role: Principal Investigator
- 5. Contract: NMRC (HLTHQ0ECO14000206/1)** 21/08/2014 – 26/01/2015
National Medical Research Council (NMRC)
Total Value Awarded: SGD \$65,000
Estimate return on investment for eye research funding provided by Singapore to Ministry of Health
The goal of this study is to estimate the Singapore government's return for investments in eye research.
Role: Principal Investigator
- 6. Contract: Sanofi-Aventis (CL2014-006)** 19/08/2014 – 18/08/2015
Sanofi-Aventis Singapore Pte Ltd
Total Value Awarded: SGD \$28,355
Cost Effectiveness of Sevelamer vs Calcium Carbonate in Singaporean Patients with CKD-ND
Hyperphosphatemia is a universal problem with chronic kidney disease and is an independent risk factor for increased morbidity and mortality. Phosphate binders can lower the level of phosphate in the blood but lead to their own set of complications with prolonged use. This study will compare the cost-effectiveness of an older calcium based binder with Sevelamer, a new non-calcium based binder, using a Markov model of the Singapore chronic kidney disease population.
Role: Principal Investigator
- 7. Grant: SHF/13/GMC(2)/017(US)** 01/04/2014 – 31/03/2015
SingHealth Foundation
Total Value Awarded: SGD \$154,650
Develop a Palliative Care Online Training Portal for Healthcare Professionals
The portal is a dynamic e-learning platform that provides relevant training and information on palliative care to 1) healthcare professionals, 2) non-professional caregivers and 3) the general public (volunteers, students etc.) who will benefit from increased knowledge in palliative care and palliative care services.
Role: Principal Investigator
- 8. Grant: 2013-SMF-0002** 03/02/2014 – 02/02/2017
Singapore Millennium Foundation
Total Value Awarded: SGD \$260,480
Knowledge and preferences for treatment of end stage renal disease among elderly patients and their family caregivers
Understanding patient's preferences regarding treatment for end-stage renal disease (ESRD) is important to guide treatment recommendations and policies. Currently, treatment choices for ESRD are likely to be distorted by a lack of knowledge among patients and their caregivers regarding outcomes and costs that result from a

given choice. Therefore, this study proposes to assess patient and caregiver knowledge about outcomes and costs of dialysis and conservative treatment, and to quantify the extent to which select features and outcomes of dialysis influence the decision to choose it over conservative treatment, and the change in uptake that would result from a given change in one of the attribute levels (or better information on that attribute). The study involves focus groups with stated preference conjoint survey with elderly stage 4 and 5 chronic kidney disease patients.

Role: Principal Investigator

9. Grant: SMPO201301 (PI Gardner) 01/01/2014 – 31/03/2015

Stratified Medicine Programme Office Singapore

Total Value Awarded: SGD \$520,000 (Duke-NUS SGD \$20,000)

Translational genetic approaches for stratifying adults with young onset diabetes and diagnosing monogenic diabetes in Singapore

This project uses a Markov model to estimate the cost-effectiveness of genetic stratifying tests for specific types of MODY in Singapore.

Role: Co-Investigator

10. Grant: SMPO201302 (PI Tan PH) 01/01/2014 – 30/06/2015

Stratified Medicine Programme Office Singapore

Total Value Awarded: SGD \$520,000 (Duke-NUS SGD \$20,000)

Stratification of triple negative breast cancer into clinically relevant groups

This project evaluates the costs of treating triple breast cancers in Singapore and estimates the cost effectiveness of triple negative breast cancer stratifying tests using a Markov model.

Role: Co-Investigator

11. Grant: R01HL119568 (PI Ward / Linnan) 01/01/2014 – 31/12/2018

US National Institutes of Health (NIH)

Total Value Awarded: USD \$489,547

Care2BWell: A Worksite Physical Activity & Wellness Program for Child Care Staff

Child care workers are among the lowest wage workers in the US workforce; and face a wide range of chronic health conditions. This randomized controlled trial in 104 child care settings will test the effects of a multi-level physical activity intervention on worker physical activity outcomes (primary) and other risk behaviors. We will also assess changes in the workplace environment at these centers that support health.

Role: Consultant

2013

1. Grant: NIHA-2013-1-004 10/09/2013 – 09/09/2015

NUS Global Asia Institute

Total Value Awarded: SGD \$239,148

A Randomized Controlled Trial to Motivate and Sustain Physical Activity using Financial Incentives (TAKSI)

This is a randomized controlled trial of taxi drivers to test (1) the extent to which different types of financial incentives, when combined with a pedometer-based activity program, motivates and sustains physical activity; and (2) whether mental accounting exists among drivers and if so, the extent to which framing of the incentives as cash or taxi rental credits influences both primary and secondary outcomes.

Role: Principal Investigator

2. Grant: NIHA-2013-1-005 (PI Bilger) 10/09/2013 – 09/03/2018

National University of Singapore (NUS)

Total Value Awarded: SGD \$249,880

A Randomized Controlled Trial to Improve Diabetes Outcomes through Financial Incentives (TRIAD)

Type II diabetes is associated with a host of adverse and costly complications, including heart attacks, strokes, blindness, kidney failure, and severe neuropathy that may result in amputations. For those with diabetes, glycemic control is essential to minimize complications but many fail at being sufficiently adherent to their treatment. We propose to test two incentive-based intervention strategies aimed at improving diabetes outcomes amongst patients with uncontrolled glycemic levels. The incentives are tied either to processes aimed at improving blood

sugar levels (glucose testing, physical activity and medication adherence) or directly to the intermediary outcome (blood glucose in the acceptable range). While process incentives are likely to provide more motivation for treatment adherence, as these goals may be comparably easier to meet, these incentives only reward intermediary outcomes and it might be more effective to reward successfully achieving a health outcome directly.
Role: Co-Investigator

3. Contract: CL2013-009

14/06/2013 – 14/06/2014

Vivus, Inc.

Total Value Awarded: USD \$75,000

Cost-Effectiveness of Treatment with Qsymia

There are two principle aims of this project. The first aim is to quantify the cost-effectiveness of a new weight loss drug, Qsymia, compared to a placebo, in terms of quality-adjusted life years (QALYs) gained. The second aim is to quantify the cost-effectiveness of Qsymia compared to other weight loss products, including gastric banding and gastric bypass surgery, commercial weight loss programs with published clinical trial data, and other commercially available (or soon to be available) weight loss drugs.

Role: Principal Investigator

4. Grant: 2012-SMF-0001

01/02/2013 – 31/01/2016

Singapore Millennium Foundation

Total Value Awarded: SGD \$164,783

Survey on Preferences for care at the end of life among cancer patients in Singapore

This is a stated preference conjoint survey of 500 breast, colorectal and lung cancer patients in Singapore to understand their preferences and willingness to pay for care at EOL.

Role: Co-Investigator

5. Grant: LCPC(I)/2013/0002 (N. Chan, NUH is PI)

01/02/2013 – 31/05/2015

National University Cancer Institute Endowment fund & NUH Cancer Fund

Total Value Awarded: SGD \$15,225

National Survey of Physicians regarding Palliative Care Provision

The project aims to understand variation in end of life care practices among physicians dealing patients suffering from life limiting illnesses in Singapore

Role: Co-Investigator

6. Grant: NHMRC APP10466 (Lamoreaux; U. of Melbourne is PI)

01/01/2013 – 31/12/2016

Australia National Health and Medical Research Council (NHMRC)

Total value Awarded: AUS \$861,581.08

Improving vision and quality of life: An innovative and comprehensive eye care model for individuals in residential care facilities

To date, Australia does not have a comprehensive eye health service model for those living in residential care facilities. To address this gap, we have developed a novel model of eye care for people living in residential care facilities. We have pilot tested this new model and our initial results suggest that it has the potential to be an effective eye care model for managing vision impairment and improving QoL for this subset of the Australian population. In this study, we will assess the effectiveness and cost-effectiveness of this new model of eye care for older people across several residential care facilities.

Role: Co-Investigator

2012

1. Grant: HSRG11NOV023

12/12/2012 – 30/06/2015

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$159,500

Use of Conjoint Analysis to Estimate Cost-Effective Strategies for Increasing Screening Rates for Breast and Cervical Cancer Screening Programs

Many Singaporeans do not undertake screenings consistent with recommended guidelines. The aim of this study is to improve our understanding of key factors that guide the decision of whether or not to use cancer screening services and determine how to cost-effectively increase the reach of the programs. We propose conducting focus groups in order to identify the key factors that drive the decision to attend a

screening exam. Conjoint analysis methods will then be used to estimate the relative importance of each of these factors and the extent to which modest incentives, targeted information and other strategies identified via the focus groups are expected to increase screening uptake. We will also give a special attention to the identification of potential knowledge gaps and misconceptions about cancer screening.

Role: Principal Investigator

2. Contract: CL2012-026

20/11/2012 – 05/11/2013

Sanofi-Aventis Singapore Pte Ltd

Total Value Awarded: SGD \$32,100

Analysis of Indonesian Family Life Survey (IFLS) Analysis

This project aims to quantify, to the extent possible, the following information for Indonesia: Prevalence of non-communicable diseases (NCDs) and related risk factors, including diabetes/high blood sugar, hypertension, heart problems and stroke; Direct and indirect costs for select NCDs; and other measures of burden for these NCDs, which may include greater levels of unemployment, higher rates for insurance, greater healthcare utilization, and greater government transfers for treating these conditions among low income and/or aged individuals, and to forecast expected burden in the future.

Role: Principal Investigator

3. Grant: NIHA0742.001

16/08/2012 – 14/11/2015

NUS Global Asia Institute

Total Value Awarded: SGD \$127,500

A Randomized Incentive-Based Weight Loss Trial in Singapore

This is a randomized controlled trial in collaboration with the Life Centre at SGH which seeks to (1) test the extent to which traditional or behavioral economic incentives, when combined with an existing evidence-based weight loss program, improve weight loss and weight loss maintenance and (2) compare the cost-effectiveness of each program.

Role: Principal Investigator

4. Grant: R01- CA167091, (Epstein; U Buffalo is lead)

01/04/2012 – 01/04/2015

US National Heart, Lung and Blood Institute (NHLBI)

Total Value Awarded: Duke-NUS Direct Costs: USD \$110,000

The Influence of pricing and nutrient profiling on food purchases

The application proposes to conduct a four-group randomized controlled trial to evaluate the influence of food price changes in the form of taxes and subsidies and nutrient profiling on food purchasing behaviors among ethnically and socioeconomically diverse individuals.

Role: Co-Investigator

5. Grant: HSRG10NOV002

01/01/2012 – 31/08/2015

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$980,300

A Randomized Trial of Economic Incentives to Promote Walking Among Full Time Employees

There is overwhelming evidence that increased physical activity confers a variety of health benefits, yet recent survey data reveal that full time employees over age 35 are among the least active subsets of the Singaporean population. Employers in Singapore are increasingly looking to economic incentives to encourage healthy behaviors among employees although the evidence base justifying the use of these programs is limited. We propose to address this gap by (1) assessing the reach and sustainability of employer-based walking programs through a stated preference conjoint analysis, (2) quantify the effectiveness of a 6 month walking program, and (3) determine the cost-effectiveness of a scalable incentive-driven employer based walking program both with and without incentives.

Role: Principal Investigator

2011

1. Grant: LCPC (1)/2011/001

01/12/2011 – 30/11/2013

Duke-NUS Medical School, Lien Centre for Palliative Care

Total Value Awarded: SGD \$40,000

Preferences for End-of-life Care among End Stage Cancer Patients in Singapore

Understanding preferences for care at the end-of-life (EOL) is important for planning and improving services that provide such care. Satisfying the needs of dying patients without unduly burdening the healthcare system is a public health priority; however preferences concerning care at EOL remain largely unknown. This project proposes to field a stated preference conjoint survey to 250 end-stage cancer patients and their caregivers in Singapore in order to understand their preferences for care at EOL.

Role: Principal Investigator

2. Grant: U18DP003367-1, (Hoelscher U. of Texas is lead) 01/09/2011 – 30/09/2015

US Centers for Disease Control and Prevention (CDC)

Total Value Awarded: Duke Direct Costs: USD \$93,990

Texas Childhood Obesity Research Demonstration (CORD): Using a System-Level Approach to Prevent Child Obesity

The goal of this demonstration project is to develop, implement and evaluate an integrated, systems-oriented obesity prevention and control program for underserved, ethnically diverse children age 2 to 12. The project will take place in Austin and Houston Texas.

Role: Co-I, Lead Economist

3. Grant: 2R01AT004623-03, (Pearlman; Duke U. is lead) 01/09/2011 – 30/06/2015

US National Institute of Health (NIH)

Total Value Awarded: Duke Direct Costs: USD \$1,831,525

Multisite RCT Investigating the Efficacy of Massage in Osteoarthritis (EMBARC)

To use a randomized trial to assess the effectiveness and cost-effectiveness of 8 weeks of Swedish massage relative to conventional treatment of knee osteoarthritis. Therapeutic effect will be measured by validated outcome measures (WOMAC, VAS, ROM, 50-ft walk) at the conclusion of therapy (8 weeks), as well as at 16, 24, 36, and 52 weeks post-baseline.

Role: Co-I, Lead Economist

4. Grant: DPRT/AGE/2010/20 04/04/2011 – 31/12/2014

NUS-Virtual Institute for the Study of Ageing

Total Value Awarded: SGD \$299,700

A Blueprint for Identifying a Successful Walking Program Targeting Singaporeans 50+

The goal of this proposal is to develop a physical activity program expected to have high uptake among older adults, partly through the use of modest financial incentives, in efforts to identify an effective long term strategy for increasing physical levels among older Singaporeans. The study aims to conduct an in-home nationally representative state preference conjoint survey aimed at identifying options for low cost, scalable, physical activity programs targeting older adults, and to conduct a 3 month pilot randomized control trial (RCT) of 100 older adults (aged 50+) to test the effectiveness of a model program in Singapore.

Role: Principal Investigator

5. Grant: HSRG/0006/2010 (Koh; NUS is PI) 01/02/2011 – 31/01/2013

Singapore Ministry of Health (MOH)

Total Value Awarded: SGD \$987,000

The health, social and financial effects of care-giving among primary caregivers of elderly stroke patients in the first post stroke year: a prospective cohort study

The primary aim of the study is to prospectively assess the health, social and financial effects of care on a cohort of stroke patient-caregiver dyads from stroke onset to one year post stroke.

Role: Co-Investigator

6. Grant: NHMRC APP1009844 (Lamoreaux; U. of Melbourne is PI) 01/01/2011 – 31/12/2016

Australia National Health and Medical Research Council (NHMRC)

Total Value Awarded: AUS \$614,240

Comparing the Effectiveness of Selective Laser Trabeculoplasty with Tropical Medication For The Treatment of Primary Angle Closure Glaucoma: A Multicentred, Prospective, Randomized Controlled

Clinical Trial

This research proposed a multicentre prospective randomized study, which will determine the optimum first line therapy for people with primary open angle glaucoma. This study will: evaluate treatment outcomes with respect to patient quality of life (QoL); provide a detailed economics effectiveness analysis; and compare the clinical effectiveness with respect to degree of IOP lowering and rates of treatment failure.

Role: Co-Investigator

7. Grant: NMRC/NIG/1036/2010 (Malholtra; Duke-NUS is PI) 01/01/2011 – 31/01/2014

Singapore National Medical Research Council (NMRC)

Total Value Awarded: SGD \$165,000

Preferences for care at the end-of-life among middle-aged and older Singaporeans

Understanding preferences for care at the end-of-life is important for planning and improving services that provide such care. However, the nature and extent of these preferences among Singaporeans remains unknown. This study aims to understand: 1) Preferences for care at the end-of-life among Singaporeans aged 50 years and over and 2) Whether preferences for care at the end-of-life vary by demographic and socio-economic characteristics.

Role: Co-Investigator

8. Grant: EDG/NMRC/10May040 (Singapore – Saw; NUS is lead) 01/01/2011 – 30/12/2012

Singapore National Medical Research Council (NMRC)

Total Value Awarded: SGD \$199,179

An Exploratory Randomized Controlled Trial of a Novel Family-Based Intervention to increase Outdoor Time for the Prevention of Myopia and Increase Physical Activity among Singapore Youth

This study aims to develop, implement, and evaluate a novel incentive-based family intervention to increase time spent outdoors and increase physical activity among children aged 6 to 10 years in a 1-year exploratory randomized controlled trial.

Role: Co-Investigator

2010

1. Grant: ABC123 (Song; NUS is lead) 01/05/2010 – 30/04/2011

National University of Singapore Medicine-Business Seed Grant

Total Value Awarded: Direct Costs SGD \$50,000

Association Between Health Behaviors and Intra-Day Work Performance: A Mobile Survey Study of Nurses

The goal of the proposed study is to examine the short-term relationship between health-related behaviours and job performance. Our proposed study population are nurses on shift work in a major tertiary hospital in Singapore. Behaviours, which will be measured several times per day over a 7-day interval, include sleep patterns, quantity and quality of food consumption, and leisure time physical activity.

Role: Co-Investigator

2009

1. Grant: RTI# 1-312-0212385 01/11/2009 – 30/04/2011

US Robert Wood Johnson Foundation (RWJF)

Total Value Awarded: USD \$32,400

Studying the Effect of Beverage Taxes on Children's Energy Intake and Tax Revenue.

The goal of this proposal is to use the Nielsen Company's Homescan longitudinal dataset of household weekly at-home food expenditures, which contains unparalleled information concerning the quantity and price of specific food purchases to address the following specific aims: 1. Compare differences in total household energy costs (cents per megajoule [MJ]) and energy costs for 43 common food categories between lower- and higher-income households. 2. For six obesity-promoting food items (pizza, French fries, salty snacks, cookies, sweetened breakfast cereals, and caloric carbonated beverages), conduct a detailed product-level analysis to determine differences in quantities purchased (by weight or by volume and by total calories) and differences in energy costs (cents/MJ) between lower- and higher-income households. 3. Use econometric models of household food purchases to conduct policy-relevant

simulations addressing the extent to which policy makers can encourage healthier food consumption via targeted taxes/subsidies on select food products (e.g., tax on caloric carbonated beverages).

Role: Principal Investigator

2. Grant: RTI# 4-312-0211772

01/08/2009 – 31/07/2011

US Department of Homeland Security (DHS)

Total Value Awarded: USD \$34,792

Economic Analysis to support the Assessment of the Social Welfare Implications of US Counter-terrorism Policies.

The purpose of this study is to explore individual's preferences concerning methods for reducing terrorist threats and the reductions in deaths on U.S. soil that would be required for individuals to willingly accept these measures. We will field a stated preference conjoint survey to a national sample of 1,000 adult living in the U.S. using the Knowledge Networks web-enabled panel. Survey respondents will complete a series of exercises in which they are asked to compare two potential options, described by the levels of the key attributes and the expected number of deaths from terrorism expected to occur over the next 5 years should that option be chosen. Individuals are expected to choose their preferred options. Using these results and discrete choice econometric methods, we will quantify average preferences over different program features and how these preferences vary by population subsets.

Role: Principal Investigator

2008

1. Grant: RTI# 0280800.373.02 (Finkelstein)

01/09/2008 – 30/09/2011

US Robert Wood Johnson Foundation (RWJF)

Total Value Awarded: Direct Costs USD \$268,147

The goal of this proposal is to use the Nielsen Company's Homescan longitudinal dataset of household weekly at-home food expenditures to determine differences in quantities purchased (by weight or by volume and by total calories) and differences in energy costs (cents/MJ) between lower- and higher-income households and to conduct policy-relevant simulations addressing the extent to which policy makers can encourage healthier food consumption via targeted taxes/subsidies on select food products (e.g., tax on caloric carbonated beverages).

Role: Principal Investigator

2007

1. Grant: R01 HL084400-01 (Jakicic; U of Pitt is lead)

01/09/2007 – 30/06/2012

US National Heart, Lung and Blood Institute (NHLBI)

Total Value Awarded: Duke-NUS Direct Costs USD \$123,383

The Effect of a Stepped-Care Approach to Long Term Weight Loss

The purpose of this project is to examine whether a chronic-care obesity intervention delivered in a "stepped-care" manner results in improved weight loss compared to a standard behavioral weight loss intervention (SBWP group).

Role: Co-Investigator

2006

1. Grant: R01- 5-34396 (Linnan; UNC is lead)

01/09/2006 – 31/05/2012

US National Heart, Lung and Blood Institute (NHLBI)

Total Value Awarded: Duke-NUS Direct Costs: USD \$101,829

WAY to Health - Interventions to Control Obesity in North Carolina Colleges

The purpose of this project is to test the effectiveness and cost-effectiveness of four interventions aimed at reducing weight among overweight employees in North Carolina colleges. The interventions are being fielded in 12 colleges. These interventions are an expansion of a prior study funded by the CDC that focused on reducing weight among employees of North Carolina Community Colleges. Two of the four Arms include incentive-based weight loss strategies first developed in the prior study. The study is being conducted over an 18 month time period.

Role: Co-Investigator

Personal Information:

1. Preferred email contact: eric.finkelstein@duke-nus.edu.sg
2. Local work address:
8 College Road, Level 4 LCPC
Singapore 169857