

CHETNA MALHOTRA MBBS MD MPH

- 1. INSTITUTION OF PRIMARY APPOINTMENT:** Duke-NUS Medical School, Singapore.
- 2. PRESENT RANK(S) AND TITLE(S):** Assistant Professor (tenure-track), Program in Health Services and Systems Research and Lien Centre for Palliative Care, Duke-NUS Graduate Medical School

Affiliate, SingHealth Duke-NUS Global Health Institute (January 2021-)

- 3. SPECIALTY CERTIFICATION(S) AND DATES:** Doctor of Medicine (M.D.), Community Medicine, 2005 (Degree conferred in 2006)

4. EDUCATION

Bachelor of Medicine, Bachelor of Surgery (M.B., B.S.), Rabindranath Tagore Medical College, University of Rajasthan, India, 2002

Doctor of Medicine (M.D.), Community Medicine, Maulana Azad Medical College, University of Delhi, India, 2004

Master of Public Health (M.P.H.), Maternal and Child Health, School of Public Health, University of North Carolina, USA, 2007

5. WORK EXPERIENCE:

<u>Institution</u>	<u>Position/Title</u>	<u>Dates</u>
Maulana Azad Medical College, Delhi, India	Senior Resident, Community Medicine	June 2005 - July 2006
National University of Singapore	Research Fellow, Department of Sociology	July 2008 - June 2009
Duke-NUS Medical School, Singapore	Research Fellow, Health Services and Systems Research	July 2009 - December 2010
Duke-NUS Medical School, Singapore	Senior Research Fellow, Health Services and Systems Research	January 2011- July 2012
Duke-NUS Medical School, Singapore	Assistant Professor (Research track), Health Services and Systems Research, Lien Centre for Palliative Care	August 2012 – July 2015
Duke-NUS Medical School, Singapore	Assistant Professor (tenure-track), Health Services and Systems Research, Lien Centre for Palliative Care	August 2015-

6. RESEARCH INTERESTS

Early in my career as a medical resident in India, I studied maternal and child health issues. I subsequently made a successful shift in my career focusing on health services research. My overall research agenda is to improve delivery of palliative care services at the end of life through high quality research. More specifically, my research focuses on three themes:

- i. Understanding and meeting patient preferences for end of life care
- ii. Improving communication among patients, caregivers and physicians at the end of life
- iii. Improving the organization of end of life care services

7. RESEARCH GRANTS

COMPLETED

Role: Co-investigator (PI: Prof Young Kyung Do)

Title: Cross-cultural adaptation and validation of two mental health screening instruments in Singapore.

Source of funding: Virtual Institute of Study of Aging, Ministry of Community Development, Youth and Sports, Singapore (Amount: S\$14,900) (June 2010 to May 2011)

Depressive symptoms (DS) and cognitive impairment (CI) afflict around 13% of elderly Singaporeans and their prevalence is likely to increase as the population ages. This project aims to adapt and validate DS and CI screening instruments for use among elderly Singaporeans.

Role: Co-Principal Investigator (PI: Prof Eric Finkelstein)

Title: Preferences for end-of-life care among advanced cancer Patients in Singapore

Source of funding: Lien Centre for Palliative Care Intramural funds (Amount: S\$40,000) (January 2012-December 2013)

This is a stated preference conjoint survey of advanced cancer patients and their caregivers at National Cancer Centre. This study assessed the preferences for end of life care among end-stage cancer patients and the extent to which these differ from their primary caregivers.

Role: Principal Investigator

Title: Survey on preferences end-of-life care at the end-of-life among Singaporeans (SPECS)

Source of funding: National Medical Research Council (New Investigator Grant category) (Amount: S\$165,000) (January 2011 to December 2012)

Understanding end-of-life care preferences is essential for ensuring that care provided to these patients is aligned with their preferences. This is a stated preference conjoint survey administered to a national sample of older Singaporeans (≥ 50 years) to understand their preferences for end-of-life care.

Role: Principal Investigator

Title: A qualitative study of heart failure patients and their caregivers

Source of funding: Lien Centre for Palliative Care (Amount: \$4580)

This study aims to conduct focus group discussions with patients with heart failure and their primary caregivers to understand their preferences for care at the end-of-life. Understanding such preferences is important for planning and improving services that provide care at the end-of-life.

Role: Co-investigator (PI: Prof Eric Finkelstein)

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

Source of funding: Ministry of Health (Health Services Research Grant) (Amount: S\$159,500) (December 2012 – June 2014)

The study involves focus group discussions and a conjoint survey to assess uptake of breast and cervical cancer screening with various strategies and the cost-effectiveness of these strategies.

Role: Principal Investigator

Title: National Survey of physicians regarding palliative care provision

Source of funding: Lien Centre for Palliative Care and National University Hospital (Amount: \$55,000) (February 2013- January 2015)

This is a national survey of physicians dealing with patients with life limiting illnesses. It aims to understand variation in physician practice styles regarding provision of palliative care (through vignettes) and their perceived roles regarding provision of palliative care (through best-worst scaling).

Role: Co-investigator (PI: Dr. Dennis Seow)

Title: Perspectives of mild dementia patients and their caregivers regarding end-of-life care

Source of funding: Lien Centre for Palliative Care (2011 grant call). (Amount: S\$20,000) (2012 to 2013)

This study involves in-depth interviews with patients with mild dementia and their primary caregivers to understand their preferences for end-of-life care and the extent to which these differ between patients and their caregivers.

Role: Principal Investigator

Title: Survey on preferences for care at the end-of-life among cancer patients in Singapore

Source of funding: Singapore Millennium Foundation. (Amount: S\$164,783) (February 2013 to January 2016)

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

Role: Co-investigator (PI: Prof Eric Finkelstein)

Title: Knowledge and preferences for treatment of end stage renal disease among elderly patients and their family caregivers

Source of funding: Singapore Millennium Foundation (Amount: \$260,480) (2013-2016)

This study assesses patient and caregiver knowledge about outcomes and costs of dialysis and conservative treatment, and 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).

Role: Co-investigator (PI: Prof Eric Finkelstein)

Title: Singapore cohort of patients with advanced heart failure (SCOPAH)

Source of funding: Ministry of Health (Amount: \$999,972)

This is a cohort study of patients with advanced heart failure to better understand the relationship between patient preferences, health care access, utilization, costs, and quality of life and to identify strategies to improve the EOL experience for these patients.

Role: Co-investigator (PI: Prof Eric Finkelstein)

Title: Tailoring Health Communication Materials to Improve Decision Making of Elderly ESRD Patients

Source of funding: Ministry of Health (Amount: \$209,492)

Role: Co-investigator (PI: Prof Eric Finkelstein)

Title: Survival expectations and Hope among Cancer Patients at End-of-Life (SHAPE)

Source of funding: Singapore Millennium Foundation (Amount: \$150,928)

Cancer patients often conflate hope with beliefs when asked about their prognosis. The primary aim of this study is to attempt to discern patient's beliefs about their prognosis independent of hope using an incentive compatible strategy where a reward is given for 'correct' answers as determined by treating physicians.

ONGOING

Role: Principal Investigator

Title: Impact of advance care planning on care for patients with advanced heart failure: A randomized controlled trial

Source of funding: Lien Centre for Palliative Care (Amount: \$150,000)

This is a 2-arm randomized controlled trial to assess the effectiveness of advance care planning in meeting patient's end of life care preferences.

Role: Co-investigator (PI: Prof Eric Finkelstein)

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

Source of funding: Lien Centre for Palliative Care (Amount: S\$399,000); Singapore Millennium Foundation (\$749,922)

This is a cohort study of patients with advanced cancers to assess their health care utilization, cost, and quality of life during the last year of their life.

Role: Principal Investigator

Title: Communication quality between physicians and cancer patients in Singapore

Source of funding: Lien Centre for Palliative Care (Amount: \$125,000)

This study assesses the preferences for communication and perception of quality of communication among advanced cancer patients with their physicians.

Role: Principal Investigator

Title: Panel Study investigating status of cognitively impaired elderly in Singapore (PISCES)

Source of funding: Ministry of Health (Amount: \$994,400), Lien Centre for Palliative Care (Amount: \$200,000)

This is a cohort study of caregivers of patients with advanced dementia to assess patients' end-of-life care, health care utilization, cost, and quality of life during the last year of life.

Role: Co-investigator (PI: Rahul Malhotra)

Title: Caregiving Transitions among Family Caregivers of Elderly Singaporeans (TraCE);

Source of funding: Ministry of Health (Amount: \$999,033)

This is a longitudinal dyadic study of family caregivers of elderly (aged ≥ 75) Singaporeans with functional limitations. It aims to delineate trajectories of health (healthcare use; stress; depressive symptoms; quality of life) and caregiving-related (disrupted health and schedule; lack of family support; lack of finances; esteem; self-affirmation; outlook on life) outcomes among caregivers.

Role: Co-investigator (PI: Ting Hway)

Title: Quality of Life and End-of-Life Trajectory after Moderate and Severe Injury: Perspectives of Older High-Risk Survivors of Blunt Trauma and their Caregivers – A Mixed Methods Study

Source of funding: Ministry of Health (Amount: \$726,724)

This is a cohort study assessing quality of life trajectories of patients who survive trauma injuries by interviewing them every 3 months for 3 years post-injury.

Role: Co-investigator (PI: Doble Brett Matthew)

Title: 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.

Source of funding: Singapore Millennium Foundation (Amount: \$146,335)

This project assesses health care use and expenditures at end of life among patients with and without cognitive impairment using data from the Singapore Chinese Health Study.

Role: Principal Investigator

Title: National Evaluation of ACP 2.0 Program

Source of funding: Agency for Integrated Care (Amount: \$162,306) (July 2020- November 2021)

This project is a qualitative study evaluating the implementation of the advance care planning program in Singapore.

Role: Co-Investigator

Title: Survival Expectations and Hope for Advanced Cancer Patients in Singapore II (SHAPE II)

Source of funding: Temasek Foundation 10th SMF Research Grant Call (Amount: \$ 99,300.00) (September 2020-August 2021)

Role: Principal Investigator

Title: Singapore cohort of patients with advanced heart failure (SCOPAH)

Source of funding: Lien Centre for Palliative Care (Amount: \$215,188)

This is a cohort study of patients with advanced heart failure to better understand the relationship between patient preferences, health care access, utilization, costs, and quality of life and to identify strategies to improve the EOL experience for these patients. (January 2021- March 2022)

8. PUBLICATIONS:

1. Ozdemir S, Ng S, **Malhotra C**, Teo I, Finkelstein E, COMPASS Study Group. Patient-Caregiver Treatment Preference Discordance and its Association with Caregiving Burden and Esteem. *Innovation in Aging*, forthcoming.
2. Teo I, Ozdemir S, **Malhotra C**, Yang GMJ, Ocampo RR, Bhatnagar S,... Finkelstein EA. Anxiety, Depression and Mental Health Service Use among Advanced Cancer Patients in South Asia: A Multi-country Cross-sectional Study. *Journal of Pain and Symptom Management*. Forthcoming
3. **Malhotra C**, Chaudhary I, Ozdemir S, Teo I, Kanesvaran R, COMPASS study team. Experiences with health care practitioners among advanced cancer patients and their family caregivers: A longitudinal dyadic study. *Cancer*. Forthcoming.
4. Finkelstein EA, Baid D., Cheung YB., Schweitzer ME, **Malhotra C**, Volpp KG, Kanesvaran R, Lee LH, SHAPE Study Team. Hope, Bias and Survival Expectations of Advanced Cancer Patients: A cross-sectional study. *Psycho-Oncology*. Forthcoming
5. **Malhotra C**, Malhotra R, Bundoc F, Teo I, Ozdemir S, Chan N, Finkelstein E. Trajectories of suffering in the last year of life among patients with a solid metastatic cancer. *JNCCN—Journal of the National Comprehensive Cancer Network*. (Accepted for publication 24 January 2021)
6. **Malhotra C**, Hazirah M, Østbye T, Pollak KI, Balasundaram B, Malhotra R, Tong KM, Hum AYM, Allen JC, Seow D, Yong JR, Yoon S, PISCES study group. Discordance between dementia caregivers' goal of care and preference for life-extending treatments. *Age and Ageing*. 2021 Apr 22;afab049. doi: 10.1093/ageing/afab049.
7. Ozdemir S, Tan SNG, Chaudhary I, **Malhotra C**, Finkelstein EA. Public Preferences for Government Response Policies on Outbreak Control. *The Patient - Patient-Centered Outcomes Research*. 2020 (forthcoming)
8. **Malhotra C***, Koh LE* (*co-first authors), Teo I, Ozdemir S, Chaudhry I, Finkelstein E, Compass study team. A prospective cohort study of stability in preferred place of death among patients with Stage IV cancer in Singapore. *JNCCN—Journal of the National Comprehensive Cancer Network*. 2020 (forthcoming).
9. **Malhotra C**, Bundoc F, Ang FJL, Ozdemir S, Teo I, Sim D, Jaufeerally FR, Aung T, Finkelstein E. Financial difficulties and patient-reported outcomes among patients with advanced heart failure. *Quality of Life Research*. 2020 (forthcoming)
10. **Malhotra C**, Hazirah M, Tan LL, Malhotra R, Yap P, Balasundaram B, Tong KM, Pollak KI, *PISCES study group*. Family caregiver perspectives on suffering of persons with severe dementia: A qualitative study. *Journal of Pain and Symptom Management*. 2020 doi.org/10.1016/j.jpainsymman.2020.11.021
11. Ozdemir S, Tian Y, **Malhotra C**, Harding R, Koh G, Kumarakulasinghe NB, Lee LH, Mon SW, Finkelstein EA, COMPASS Study Group. 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* (forthcoming)

12. Doable B, Lau E, **Malhotra C**, Ozdemir S, Teo I, Finkelstein E. 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* (Accepted for publication October 27, 2020)
13. **Malhotra C**, Chaudhry I, Ozdemir S, and Finkelstein E.A. Reduced healthcare utilization among people with chronic medical conditions during COVID-19. *Proceedings of Singapore Healthcare* (Accepted for publication September 17, 2020)
14. **Malhotra C**, Krishnan A, Jing Rong Y, Teo I, Ozdemir S, Hong Ning X, Hapuarachchi T, Palat G, Bhatnagar S, Joad AK, Pham NT, Ssu WM, Finkelstein E. 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; 19, 158.
15. Ozdemir S, Teo I, Bundoc FC, **Malhotra C**, Yeo KK, Sim DKL, Finkelstein EA. 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* (Accepted for publication 21 August 2020)
16. Mon SW, Myint Zu WW, Maw MM, Win H, Thant KZ, Yang G, **Malhotra C**, Teo I, Finkelstein E, Ozdemir S. 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* (Accepted for publication 20 June 2020).
17. **Malhotra C**, Bundoc FG, Sim D, Jaufeerally FR, Finkelstein EA. Instability in preference for place of death among patients with symptoms of advanced heart failure. *J Am Med Dir Assoc*. 2021; 22(2): 349.e29-349.e34.
18. Zain Z, Mohamad H, Seow D, Hum AYM, Allen JC, Tong KM, Malhotra R, Balasundaram B, **Malhotra C** (corresponding author). Caregiver preference for tube feeding in community-dwelling persons with severe dementia. *Journal of the American Geriatrics Society*. 2020; 68: 2264-2269. doi: 10.1111/jgs.16641.
19. Mon SW, Ozdemir S, Myint Zu WW, Win H, Maw MM, Win KC, Thant KZ, Teo I, Krishnan A, Goh C, Finkelstein E, **Malhotra C** (corresponding author). End of life experiences of patients with advanced cancer in Myanmar: results from the APPROACH study. *Asia Pacific Journal of Clinical Oncology* (Accepted for publication 6 May 2020)
20. **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. A prospective longitudinal study of caregivers of community

- dwelling persons with severe dementia (PISCES): Study protocol. *Journal of Alzheimer's Disease*. 2020: 403 – 416.
21. **Malhotra C**, Meibo H, Malhotra R, Sim D, Jaufeerally FR, Bundoc FG, Finkelstein E. 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 Jul;35(7):2010-2016.
 22. **Malhotra C**, Sim D, Jaufeerally FR, Meibo H, Nadkarni N, Hwa CN, Wong G, Cheng TB, Fen LJ, Ya-Ting CC, Finkelstein E. Impact of advance care planning on end-of-life care for patients with heart failure: Results from a randomized controlled trial. *Journal of Cardiac Failure* 2020 Jul;26(7):594-598.
 23. **Malhotra C**, Harding R, Teo I, Ozdemir S, Koh GC, Neo P, Lee LH, Kanesvaran R, Finkelstein E. Financial difficulties are associated with greater total pain and suffering among patients with advanced cancer: Results from the COMPASS study. *Supportive Care in Cancer*. 2019 Dec 12[Online ahead of print]
 24. Teo I, Baid D, Ozdemir S, **Malhotra C**, et al. The Role of Self-Perceived Competency and Meaning-making for Family Caregivers of Advanced Cancer Patients. *BMJ Supportive & Palliative Care* (Accepted for publication 10 November 2019)
 25. **Malhotra C**, Rajasekaran R, Kanesvaran R, Yee A, Bundoc FG, Singh R, Tulsy JA, Pollak KI. Pilot trial of a combined oncologist-patient-caregiver communication intervention. *Journal of Oncology Practice* 2020; 16 (2), e190-e200.
 26. **Malhotra C**, Kanesvaran R, Kumarakulasinghe NB, Tan SH, Ling X, Tulsy JA, Pollak KI. Oncologist-patient-caregiver decision making discussions in the context of advanced cancer in an Asian setting. *Health Expectations* 2020; 23 (1): 220-228.
 27. Ozdemir S, **Malhotra C**, Teo I, Tang GM, Kanesvaran R, Yee ACP, Finkelstein E. Compass study group. Palliative Care awareness among advanced cancer patients and their family caregivers in Singapore. *Annals, Academy of Medicine, Singapore* 2019; 48:241
 28. Jacob J, Palat G, Verghese N, Kumari P, Rapelli V, Kumari S, **Malhotra C**, Teo I, Finkelstein E, Ozdemir S. Health-related quality of life and its socio-economic and cultural predictors among advanced cancer patients: Evidence from a cross-sectional survey in India. *BMC Palliative Care* 2019; 19: 94.
 29. Chowdhary AR, Kanesvaran R, Wei TK, Pollak K, **Malhotra C** (corresponding author). Financial discussions during cancer consultations in Asia: Show me the money. *Asia Pacific Journal of Clinical Oncology* 2019; 1-2. (letter to the editor)
 30. Chan A, Saito Y, Matchar DB, Ostbye T, **Malhotra C**, Ang S, Ma S, Malhotra R. Cohort profile: Panel on Health and Ageing of Singaporean Elderly (PHASE). *International Journal of Epidemiology* (Accepted for Publication 11 July 2019)
 31. Malhotra R, Bautista MA, Müller AM, Aw Su, Koh, CHG, Theng YL, Hoskins SJ,

- Wong CH, Miao C, Lim W, **Malhotra C**, Chan A. The Aging of a Young Nation: Population Aging in Singapore. *Gerontologist* 2018; 59: 401-410.
32. **Malhotra C**, Sim D, Jaufeerally FR, Finkelstein E. Associations between understanding of current treatment intent, communication with health care providers, preferences for invasive life-sustaining interventions and decisional conflict: Results from a survey of patients with advanced heart failure in Singapore. *BMJ Open* 2018;8(9):e021688.
 33. **Malhotra C**, Foo R, Singh R, Ozdemir S, Teo I, Sim D, Jaufeerally FR, Aung T, Yeo KK, Nadkarni N, Finkelstein E. Study protocol for a cohort study of patients with advanced heart failure in Singapore. *BMJ Open* 2018;8(9):e022248.
 34. Finkelstein E, Ozdemir S, **Malhotra C**, Jafar TH, Lin LCH, Wen SGS. Understanding factors that influence the demand for dialysis among elderly in a multi-ethnic Asian Society. *Health Policy* 2018; 122(8):915-921.
 35. Menon S, Kars M, **Malhotra C**, Campbell AV, Delden JJM. Advance care planning in a multi-cultural family-centric community: A qualitative study of healthcare professionals', patients' and caregivers' perspectives. *J Pain Symptom Management*. 2018;56(2):213-221.
 36. Teo I, Singh R, **Malhotra C**, Ozdemir S, Dent RA, Kumarakulasinghe NB, Yeo WL et al. Cost of Medical Care of Patients with Advanced Serious Illness in Singapore (COMPASS): prospective cohort study protocol. *BMC cancer* 2018; 18(1): 459
 37. **Malhotra C**, Kanesvaran R, Krishna L, Xiang L, Kumarakulasinghe NB, Tan SH, Tulskey JA, Pollak KI. Oncologists' responses to patient and caregiver negative emotions and patient perception of quality of communication: results from a multi-ethnic Asian setting. *Supportive Care in Cancer*. 2018; 26: 957-965.
 38. Finkelstein E, Ozdemir S, **Malhotra C**, Jafar T, Choong L, Suhardjono J. Identifying factors that influence physicians' recommendations for dialysis and conservative management in South-east Asia. *Kidney International Reports*. 2017; 2: 212-218.
 39. **Malhotra C**, Ling X, Ozdemir S, Kanesvaran R, Chan N, Finkelstein E. A comparison of attitudes toward length and quality of life between community dwelling older adults and patients with advanced cancer. *Psycho-Oncology* 2016; 26(10): 1611-1617.
 40. **Malhotra C**, Do YK. Public Health expenditure and health system responsiveness for low-income individuals: results from 63 countries. *Health Policy and Planning*. 2017; 32(3): 314-319
 41. **Malhotra C**, Bilger M, Liu J, Finkelstein E. Barriers to breast and cervical cancer screening in Singapore: A mixed methods analysis. *Asian Pac J Cancer Prev* 2016; 17(8):3887-3895.
 42. **Malhotra C**, Sim DKL, Jaufeerally F, Vikas NN, Wong GCSW, Tan BC, Ng CSH, Tho PL, Lim J, Chuang CYT, Fong FHM, Liu J, Finkelstein EA. Impact of advance care planning on care of patients with heart failure: Study protocol for a randomized controlled trial. *Trials* 2016; 17(1):285.

43. Finkelstein E, **Malhotra C**, Chay J, Chopra A, Kanesvaran R, Ozdemir S. Impact of treatment subsidies and cash payouts on treatment choices at the end of life. *Value in Health* 2016;19(6):788-794.
44. **Malhotra C**, Wong GCS, Tan BC, Ng CSH, Lee NC, Lau CSL, Sim DKL, Finkelstein EA. Living with heart failure: Perspectives of patients from an Asian setting. *Proceedings of Singapore Healthcare*. 2016; 25(2):92-97.
45. Flynn T, Bilger M, **Malhotra C**, Finkelstein E. Are Efficient Designs Used In Discrete Choice Experiments Too Difficult For Some Respondents? A Case Study Eliciting Preferences for End-Of-Life Care. *Pharmacoeconomics* 2016; 34:273-284.
46. **Malhotra C**, Chan N, Zhou J, Dalager H, Finkelstein E. Physician recommendations, knowledge and perceived roles regarding of end of life care. *BMC Palliative Care* 2015; 14(1):52.
47. Finkelstein EA, Bilger M, Flynn T, **Malhotra C**. Preferences for end-of-life care among community dwelling older adults and patients with advanced cancer: A discrete choice experiment. *Health Policy* 2015; 119(11):1482-9.
48. **Malhotra C**, Assad MA, Kanesvaran R, Bilger M, Finkelstein EA. Comparison of preferences for end-of-life care among patients with advanced cancer and their caregivers: A discrete choice experiment. *Palliative Medicine*. 2015; 29(9): 842-850.
49. Malhotra R, Haaland B, Chei CL, Chan A, **Malhotra C**, Matchar D. Presence of and correction for interviewer error on an instrument assessing cognitive function of older adults. *Geriatrics & Gerontology International* 2015; 15:372-280.
50. Finkelstein E, **Malhotra C**, Yee ACP. Improving the end-of-life experience in Singapore: Building capacity in palliative care education and research. *Annals of Academy of Medicine, Singapore*. 2013; 43(1):1-2.
51. Ostbye T, Malhotra R, **Malhotra C**, Arambepola C, Chan A. Does support from foreign domestic workers decrease the negative impact of informal caregiving? Results from Singapore survey on informal caregiving. *The journals of gerontology Series B, Psychological sciences and social sciences*. 2013;68(4):609-21. doi: 10.1093/geronb/gbt042. PubMed PMID: 23723433.
52. Malhotra R, **Malhotra C**, Chan A, Ostbye T. Life-course socioeconomic status and obesity among older Singaporean Chinese men and women. *The journals of gerontology Series B, Psychological sciences and social sciences*. 2013;68(1):117-27. doi: 10.1093/geronb/gbs102. PubMed PMID: 23161348.
53. **Malhotra C**, Do YK. Socio-economic disparities in health system responsiveness in India. *Health policy and planning*. 2013;28(2):197-205. doi: 10.1093/heapol/czs051. PubMed PMID: 22709921; PubMed Central PMCID: PMC3584994.
54. **Malhotra C**, Chan A, Matchar D, Seow D, Chuo A, Do YK. Diagnostic performance of short portable mental status questionnaire for screening dementia among patients attending cognitive assessment clinics in Singapore. *Annals of the Academy of Medicine, Singapore*. 2013;42(7):315-9. PubMed PMID: 23949260.

55. Chan A, **Malhotra C**, Malhotra R, Rush AJ, Ostbye T. Health impacts of caregiving for older adults with functional limitations: results from the Singapore survey on informal caregiving. *J Aging Health*. 2013;25(6):998-1012. doi: 10.1177/0898264313494801. PubMed PMID: 23872822.
56. **Malhotra C**, Malhotra R, Ostbye T, Subramanian SV. Maternal Autonomy and Child Health Care Utilization in India: Results From the National Family Health Survey. *Asia Pac J Public Health*. 2012. Published online May 31, 2012, doi: 10.1177/1010539511420418. doi: 10.1177/1010539511420418. PubMed PMID: 22652247.
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58. **Malhotra C**, Malhotra R, Ostbye T, Matchar D, Chan A. Depressive symptoms among informal caregivers of older adults: insights from the Singapore Survey on Informal Caregiving. *Int Psychogeriatr*. 2012;24(8):1335-46. doi: 10.1017/S1041610212000324. PubMed PMID: 22436145.
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61. Do YK, **Malhotra C**. The effect of coresidence with an adult child on depressive symptoms among older widowed women in South Korea: an instrumental variables estimation. *The journals of gerontology Series B, Psychological sciences and social sciences*. 2012;67(3):384-91. doi: 10.1093/geronb/gbs033. PubMed PMID: 22421809.
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69. Malhotra R, **Malhotra C**, Sharma N. Should there be mandatory testing for HIV prior to marriage in India? *Indian J Med Ethics*. 2008;5(2):70-4. PubMed PMID: 18624155.
70. Rajpal S, Mittal A, Dhingra VK, Malhotra R, Gupta R, **Malhotra C**, et al. Knowledge, attitude and practices regarding tuberculosis and dots among interns in delhi, India. *J Coll Physicians Surg Pak*. 2007;17(8):457-61. doi: 08.2007/JCPSP.457461. PubMed PMID: 17785121.
71. **Malhotra C**, Sharma N, Saxena R, Ingle GK. Drug use among juveniles in conflict with the law. *Indian journal of pediatrics*. 2007;74(4):353-6. PubMed PMID: 17476079.
72. **Malhotra C**, Malhotra R, Singh MM, Garg S, Ingle GK. A Study of tobacco use among street children of Delhi. *Indian Journal of Community Medicine*. 2007;32(1):58. doi: 10.4103/0970-0218.53405
73. Lal P, Malhotra R, Khurana S, **Malhotra C**. Prenatal sex determination: Knowledge, beliefs and practices among pregnant women of a rural area of Delhi. *Indian Pract*. 2007;61(10):626-9.
74. Lal P, **Malhotra C**, Nath A, Malhotra R, Ingle G. Career aspirations and apprehensions regarding medical education among first year medical students in Delhi. *Indian J Community Med* 2007;32(3):217-8. doi: 10.4103/0970-0218.36835.
75. Ingle GK, **Malhotra C**. Integrated management of neonatal and childhood illness: An overview. *Indian Journal of Community Medicine*. 2007;32(2).
76. Singh MM, Ray T, **Ahuja C**, GK I. Smoking and health problems- knowledge and perceptions of new entrant medical students in Delhi. *The Antiseptic*. 2006;103(6):335-7.
77. Lal P, Malhotra R, **Ahuja C**, Ingle G. Internet use Among Medical Students and Residents of A Medical College of North India. *Indian J Community Med* 2006;31(4):293-4.
78. **Malhotra C**, Singh M, Garg S, Malhotra R, Dhaon B, Mehra M. Pattern and Severity Of Injuries In Victims Of Road Traffic Crashes Attending A Tertiary Care Hospital Of Delhi. *Anil Aggrawal's Internet J For Med Tox [Internet]*. 2005; 6(2). Available from: http://www.anilaggrawal.com/ij/vol_006_no_002/papers/paper006.html.
79. Jain T, **Ahuja C**, Garg S, Singh MM, MM M. Factors affecting immunization status of

under five children in an urban slum of Delhi. *Indian Medical Journal*. 2004;98(2):41-4.

Book chapter

Chan A, **Malhotra C**, Woo I, Goh C. An exploratory study of caregiver burden for terminally ill patients among Singapore Chinese. In “Singapore’s Ageing Population: Managing healthcare and end of life decisions”. *Routledge*. Published May 27th 2011

2. INVITED PRESENTATIONS

- Presentation of research agenda. Lien Centre for Palliative Care symposium. Singapore, October 8, 2015
- “End-of-life care preferences of older adults and patients with advanced cancer. Presented at 2015 Singapore-Sweden Excellence Seminar “Ageing Societies and Innovative Ideas” at National University of Singapore on November 4, 2015
- Understanding preferences for end-of-life care. Presented at 2015 as Key Note Speaker Taipei International Symposium on Palliative Care on November 14, 2015.
- Preferences and communication at end of life. Presented at Duke University, US as Invited Guest Speaker on October 17, 2016
- How to Measure a Good Death? Presented at the Pre-Conference Workshop 4: Research Workshop – Building the Evidence for Care at 12th Asia Pacific Hospice Conference, Singapore on 26th July 2017
- End-of-life cancer care in Singapore. Campus-wide Clinical & Research Meeting organized by Post Graduate Medical Institute, Singapore 2 May 2018
- End-of-life cancer care. Case study: Singapore. Guest lecture at NUHS Research Rounds, April 2018
- Patient-physician communication in cancer care: Challenges and possible solutions. Health Services Research Institute Research Forum, Singapore, 10 May 2018
- Preferences for end of life care among cancer patients in Singapore. Temasek Foundation Innovates Board, Singapore, 3 December 2018
- Advance care planning in Singapore. Campus-wide Clinical & Research Meeting organized by Post Graduate Medical Institute, Singapore 3 October 2018
- Impact of advance care planning on care of patients with heart failure: A randomized controlled trial. Multi-Disciplinary Palliative Care Forum, Singapore, 29 January, 2019.
- Impact of advance care planning on care of patients with advanced heart failure. Results presented to Dr. Terrance Chua, Medical Director, National Heart Centre Singapore on 15th February 2019.
- Impact of advance care planning on care of patients with advanced heart failure. Results and recommendations presented to ACP steering committee at Agency for Integrated Care on 13 September 2019
- Advance care planning in patients advanced heart failure. LCPC 10th year Anniversary Conference 11th October 2019
- Instability in patient preference for end-of-life care: Implications for advance care planning. Campus-wide Clinical & Research Meeting organized by Post Graduate Medical Institute, Singapore 1 July 2020
- Learnings from the compass cohort study of advanced cancer patients. Webinar by Lien Centre for Palliative Care. 31st August 2020.
- Learnings from the APPROACH study. Global Health Seminar Series by Singapore Duke-

NUS Global Health Institute 25th September 2020.

- Learnings from the APPROACH study. Webinar to Asia Pacific Hospice Network. 15th October 2020.
- Instability in patient preferences for end of life care: Implications for advance care planning. Lee Kong Chian School of Medicine, 15th October 2020.
- Findings from the COMPASS study. Duke-NUS Medical Students Oncology Interest Group. 10 February 2021
- What do patients want at the end of life? Implications for advance care planning. CARE Experts Webinar. 12 March 2021
- Improving patient-physician communication in the context of advanced cancer. Health Services research Institute Research Forum. 29th March 2021
- Research Sandpit on end of life care. Lee Kong Chian School of Medicine, 12th June 2021

3. **CHAIR/MODERATE ORAL PRESENTATIONS**

- Panel Chair for Women and Health at School of Humanities and Social Sciences, NTU, December 2015
- Moderate the session “Facilitating Process Improvement from Knowledge to Action” by Prof David Matchar at SingHealth Duke-NUS Quality and Innovation Day, 16 March 2018.
- Chair the Health Services Research Institute Research Forum, 10 May 2018
- Plenary Chair at International Advance Care Planning Conference, Rotterdam, 15 March 2019.
- Chair session on Advance Care Planning, LCPC 10th year Anniversary Conference 11th October 2019

4. **MEMBER OF GRANT REVIEW PANEL**

- Singhealth Grant review committee member (Clinical) 2015-2018
- Academic Medicine Grant Review Committee (2018-2022)

5. **GRANT REVIEWER**

- Netherlands Organization for Scientific Research, September 2012
- LCPC Research incubator grant review, December 2015- till date
- SGRC grant reviews, December 2015
- SHF Research grant 2016, HSR (Health outcomes), December 2016
- PCRC pilot review grants, March 2017
- NUHS collaborative grant, December 2016
- SGRC grant review, December 2017
- HSR NIG, March 2018
- HSR NIG, September 2018
- Academic Medicine Grant Review (Clinical), December 2018, December 2019, December 2020, December 2021
- Academic Medicine Grant Review (Health Services Research), December 2018
- SingHealth Duke-NUS Ageing (SAGE) Research Grant Call, December 2020
- Temasek Foundation, June 2021

6. **GUEST/ARTICLE EDITOR: SAGE Open, December 2017**

7. **EDITORIAL BOARD MEMBERSHIPS:** Academic Editor at PLOS One (2018-), Associate Editor at Journal of Alzheimer's disease (2021-)
8. **JOURNAL MANUSCRIPT REVIEWER** – Aging and Mental Health, Supportive Care in Cancer, Journal of Oncology Practice, Social Science and Medicine, Journal of the American Geriatrics Society, Journal of Gerontology: Social Sciences, Proceedings of Singapore Health Care, Journal of Psychosocial Oncology, Journal of Pain and Symptom Management, Clinical Trials, BMC Palliative Care, American Journal of Alzheimers Disease & Other Dementias, Palliative Medicine, PLOS One, Health Policy and Planning, BMJ Open, Asian Population Studies, Journal of applied gerontology, BMC Public Health, Journal of aging and health, Patient preference and adherence, International Journal of Public Health, General Hospital Psychiatry, International Journal of Health Policy and Management, BMC Health Services Research, International Journal of Health Policy and Management
9. **JUDGE/ABSTRACT REVIEWER FOR CONFERENCES:**
 - Judge for poster and oral paper presentations at the SingHealth Duke-NUS Congress 2014, Singapore, 5-6 September 2014.
 - Abstract Review Committee for Health Services & Systems Research for Singhealth Duke-NUS Scientific Congress 2016
 - Abstract Review Committee for Clinical Research (Junior) for Singhealth Duke-NUS Scientific Congress 2016
 - Judge oral presentations by IBM PhD students in April 2017
 - Judge poster presentations by IBM PhD students in May 2018
 - Judge poster presentations at the SingHealth Duke-NUS Congress 2018, Singapore, 21 September 2018.
10. **MEMBER WORKGROUP/TASKFORCES**
 - Member of Cancer Taskforce Workshop, August 2016 organized by Health and Biomedical Sciences Cancer Taskforce
 - Member of the ACP Research and Development Workgroup by Agency for Integrated Care (AIC) (2018-2020, 2020-)
 - Member of workshop on developing a conceptual framework towards addressing issues of caregiving, (7 January 2020), Centre for Ageing Research and Education, Duke-NUS Medical School
 - Member AMC ageing workgroup (August 2020) by Duke-NUS and SingHealth
11. **SCIENTIFIC/ORGANIZING COMMITTEE FOR CONFERENCES**
 - SingHealth Duke-NUS Quality and Innovation Day 2018 Working Committee representative of Duke-NUS
 - Scientific Program Committee for the International Advance Care Planning Conference, Netherlands 13-16 March 2019
 - Scientific Program Committee for the International Advance Care Planning Conference, to be held in Singapore in 2020.

12. CONFERENCE PRESENTATIONS

Presented by self

1. **Ahuja C**, Singh MM, Garg S, Malhotra R, Mehra M. Contraceptive choice among women attending MTP clinic in a tertiary care hospital in Delhi. Oral Presentation. Presented at 48th All India Annual Conference of the Indian Public Health Association, Bhubaneswar, 24th to 26th January 2004.
2. **Ahuja C**, Singh MM, Malhotra R, Garg S, Mehra M. Pattern of tobacco consumption among boys in a child observation home in Delhi. Oral Presentation. Presented at 48th All India Annual Conference of the Indian Public Health Association, Bhubaneswar, 24th to 26th January 2004
3. Garg S, **Ahuja C**, Singh MM, Malhotra R, Mehra M. Sex workers and human right issues: An Indian scenario. Poster Presentation. Presented at 31st Annual National Conference of the Indian association of Preventive and Social Medicine, Chandigarh, 27th to 29th February 2004.
4. **Ahuja C**, Singh MM, Dhaon BK, Garg S, Mehra M, Malhotra R. An epidemiological study of road traffic accident cases in a tertiary care hospital of Delhi. Oral Presentation. Presented at Joint Annual Conference of The Indian Society for Malaria and Other Communicable Diseases and The Indian Association Of Epidemiologists, New Delhi, 19th to 21st November 2004.
5. **Ahuja C**, Singh MM, Dhaon BK, Garg S, Mehra M, Malhotra R. Socio-demographic profile and injury pattern of road traffic accident victims in a tertiary care hospital of Delhi. Poster presentation. International Epidemiological Association Conference in Jhansi, India. December 2004. **(Conferred with First prize in Poster presentation)**
6. Chan A, **Malhotra C**, Østbye T, Malhotra R. Depressive symptoms among older Singaporeans: do living arrangements and social networks matter? Oral presentation. Presented at the SingHealth Duke-NUS Congress 2010, Singapore, 15th -16th October 2010. **(Conferred with Best Oral Paper Award in the Health Services & Systems Research Category)**
7. **Malhotra C**, Chan A, Malhotra R, Østbye T. Fifteen dimensions of health among elderly Singaporeans. Oral presentation. Presented at the Asian Population Association Conference, Vigyan Bhawan, New Delhi, India, 16th -20th November 2010
8. **Malhotra C**, Chan A, Malhotra R, Østbye T. Fifteen dimensions of health among elderly Singaporeans. Oral presentation in symposium titled 'Emerging issues in aging in Asia'. Presented at the 63rd Annual Scientific Meeting of the Gerontological Society of America, New Orleans, USA, 19th -23rd November 2010.
9. **Malhotra C**, Chan A, Do YK, Malhotra R, Goh C. Good end-of-life care: Perspectives of middle-aged and older Singaporeans. Oral presentation. Presented at the International Society of Advance Care Planning and End of Life Care Conference 2011 in London, UK, 22nd-24th June 2011
10. Chan A, **Malhotra C**, Malhotra R. Body mass index and waist circumference as predictors of mortality among older Singaporeans. Oral presentation. Presented at the 1st World Congress on Healthy Ageing, Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia, 19th-22nd March 2012.
11. **Malhotra C**, Chan A., Finkelstein E.A. Preference for Quality of Life or Survival: Results from Survey on Preferences for End-of-Life Care among Singaporeans. 1st World Congress on Healthy Ageing in Kuala Lumpur, Malaysia, March 2012
12. Do YK, **Malhotra C**. The effect of co-residence with an adult child on depressive symptoms

- among older widowed women in South Korea: An instrumental variables estimation. 1st World Congress on Healthy Ageing in Kuala Lumpur, Malaysia, March 2012
13. **Malhotra C**, Malhotra R, Østbye T, Matchar DB, Chan A. A path model of depressive symptoms among informal caregivers of older Singaporeans. Poster presentation. Presented at the SingHealth Duke-NUS Congress 2012, Raffles City Convention Centre, Singapore, 3rd - 4th August 2012. **(Nominated for 'Best Poster' award)**
 14. **Malhotra C**, Chan A., Finkelstein E.A. Preference for Quality of Life or Survival: Results from Survey on Preferences for End-of-Life Care among Singaporeans. Singapore Palliative Care Conference, Singapore, July 2012
 15. **Malhotra C**, Terry Flynn, Assad Farooqui, Angelique Chan, Cynthia Goh, Marcel Bilger, Eric Finkelstein. End-of-life care preferences of older Singaporeans: Results from a community-based survey. Lien Centre for Palliative Care Conference October 2012
 16. **Malhotra C**, Kanesvaran R, Farooqui MA, Dalager H, Finkelstein E. Concordance in preferences for end-of-life care between advanced cancer patients and their caregivers in Singapore: A discrete choice experiment. Poster presentation at the Conference for Health Systems in Asia: Equity, Governance and Impact, Singapore, 13-16 December 2013.
 17. **Malhotra C**, Kanesvaran R, Farooqui MA, Dalager H, Finkelstein E. Concordance in preferences for end-of-life care between advanced cancer patients and their caregivers in Singapore: A discrete choice experiment. Oral presentation at the Asia-Pacific Conference of the Society for Medical Decision Making, Singapore, 6-8 January 2014 **(Conferred with the Outstanding presentation award)**
 18. **Malhotra C**, Chan N, Zhou J, Dalager H, Finkelstein E. Physician recommendations, knowledge and perceived roles regarding provision of end of life care to patients with advanced serious illnesses in Singapore. Oral presentation at the Singapore Palliative Care Conference, Singapore, 28-29 June 2014. **(Conferred with the first prize for oral presentation)**
 19. **Malhotra C**, Chan N, Zhou J, Dalager H, Finkelstein E. Physician recommendations, knowledge and perceived roles regarding provision of end of life care to patients with advanced serious illnesses in Singapore. Poster presentation at the SingHealth Duke-NUS Congress 2014, Singapore, 5-6 September 2014. **(Conferred with the best poster presentation award)**
 20. **Malhotra C et al.** Oncologist patient decision-making discussions in advanced cancer encounters in Singapore. Oral presentation at 21st International Congress on Palliative Care, Montreal, Canada on October 21, 2016.
 21. **Malhotra C et al.** Preferences for invasive life-sustaining interventions and decisional uncertainty among patients with advanced heart failure in Singapore. Oral presentation at SGH 22nd Annual Meeting 7-8 April 2017.
 22. **Malhotra C et al.** Preferences for invasive life-sustaining interventions and decisional uncertainty among patients with advanced heart failure in Singapore: Importance of understanding intent of current treatments and communication with health care providers. Oral presentation at 12th Asia Pacific Hospice Conference, Singapore on 27th July 2017
 23. **Malhotra C et al.** Preferences for invasive life-sustaining interventions and decisional uncertainty among patients with advanced heart failure: Importance of understanding intent of current treatments and communication with health care providers. Oral presentation at 15th International Conference on Communication in Healthcare, Baltimore, USA on Oct 11, 2017.
 24. **Malhotra C et al.** The association of financial difficulties with end of life experiences of patients with advanced cancer: Results from COMPASS study. Oral Presentation at IAPCON Conference, New Delhi on 25th February 2018
 25. **Malhotra C et al.** The association of financial difficulties with Good Death among patients

with advanced cancer: Results from COMPASS study. Oral Presentation at 10th World research Congress of the EAPC, Bern, 25th May 2018.

26. Finkelstein E, Teo I, **Malhotra C, et al.** Prognostic awareness and expected survival among advanced cancer patients in Singapore: results from COMPASS cohort study. Poster presentation at 10th World research Congress of the EAPC, Bern, 24th-26th May 2018.
27. **Malhotra C et al.** Effectiveness of advance care planning in improving end of life care for patients with advanced heart failure. Oral presentation at 7th ACP-I Conference, Rotterdam , Netherland, 13-16 March 2019.
28. **Malhotra C et al.** Effectiveness of advance care planning in improving end of life care for patients with advanced heart failure. Oral presentation at 16th World Congress of the European Association for Palliative Care, Berlin, Germany, 23-25 May 2019.
29. **Malhotra C et al.** Inequalities in responsiveness of care provided by public hospitals in Asia. Oral presentation at Palliative Care: Culture and Clinic Symposium, January 21st 2021 (Webinar).

Presented by co-authors

1. Malhotra R (presenter), **Ahuja C**, Singh MM, Garg S. Tobacco consumption habits among street children in a child observation home in Delhi. Oral Presentation. 8th South East Asia Regional Scientific Meeting of the International epidemiological Association, Jhansi, 5th to 8th December, 2004.
2. Malhotra R (presenter), **Ahuja C**, Pagare D, Uppal Y, Misra A, Gupta R, Kumar R, Ingle GK. Effect of health education on knowledge about transmission and control of dengue among nurses and nursing students of a tertiary level hospital of Delhi. Poster Presentation. 31st Annual National Conference of the Indian Association of Preventive and Social Medicine, Chandigarh, 27th to 29th February 2004. **(Conferred with the award for “Best Poster by Young Male Scientist”)**
3. Malhotra R (presenter), Lal P, Kishore J, **Ahuja C**. Impact of health education on the knowledge, attitude and practices regarding personal and food hygiene among food handlers working in a medical college campus. Oral Presentation. Joint Annual Conference of The Indian Society for Malaria and Other Communicable Diseases and The Indian Association of Epidemiologists, New Delhi, 19th to 21st November 2004.
4. Lal P, Malhotra R (presenter), Lyngdoh T, **Ahuja C**, Ingle GK. Awareness about rabies among first year medical students of Delhi. Oral Presentation. Joint Annual Conference of The Indian Society for Malaria and Other Communicable Diseases and The Indian Association of Epidemiologists, New Delhi, 19th to 21st November 2004.
5. Malhotra R (presenter), Lal P, Kishore J, Prakash SK, Daga MK, **Ahuja C**. Hand hygiene of food handlers working in food service establishments in a medical college campus of Delhi. Oral Presentation. 49th All India Annual Conference of the Indian Public Health Association, Lucknow, 11th to 13th February 2005.
6. Malhotra R (presenter), Østbye T, **Malhotra C**, Chan A. Hypertension prevalence, awareness, treatment and control among older Singaporeans. Poster presentation. SingHealth Duke-NUS Congress 2010, Singapore, 15th -16th October 2010.
7. Malhotra R (presenter), Chan A, **Malhotra C**. Variation in depressive symptoms by living arrangements and social networks among older Singaporeans. Poster presentation. 1st Asian Population Association Conference, Vigyan Bhawan, New Delhi, India, 16th -20th November 2010.

8. Malhotra R (presenter), Østbye T, **Malhotra C**. Hypertension among elderly Singaporeans: Findings from a national survey. Poster presentation. 1st Asian Population Association Conference, Vigyan Bhawan, New Delhi, India, 16th -20th November 2010.
9. Malhotra R (presenter), **Malhotra C**, Østbye T, Chan A. The Relationship between Socio-Economic Status through the Life Course and Adult Obesity among Older Singaporeans: Application of the 'Accumulation of Risk', 'Social Mobility' and 'Sensitive Periods' Frameworks. Oral presentation. Population Association of America (PAA) 2011 Annual Meeting, Marriott Wardman Park, Washington, DC, USA, 31st March-2nd April 2011.
10. **Malhotra C**, Chan A, Malhotra R (presenter), Østbye T. Limitations in activities of daily living and their perceived causes among older Singaporeans. Poster presentation. Population Association of America (PAA) 2011 Annual Meeting, Marriott Wardman Park, Washington, DC, USA, 31st March-2nd April 2011.
11. Malhotra R (presenter), **Malhotra C**, Østbye T, Chan A. Life course socio-economic status and obesity among older Singaporeans. Oral presentation. 1st World Congress on Healthy Ageing, Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia, 19th-22nd March 2012.
12. Malhotra R (presenter), **Malhotra C**, Chan A, Østbye T. Childhood socio-economic status and obesity in later life: Findings from the Singapore Social Isolation, Health and Lifestyles Survey. Oral presentation. 24th REVES Meeting, Chung Shan Medical University, Taichung, Taiwan, 25th-27th May 2012.
13. Malhotra R (presenter), **Malhotra C**, Chan A, Østbye T. Validity and reliability of the Caregiver Reaction Assessment scale among primary informal caregivers for older adults in Singapore. Poster presentation. SingHealth Duke-NUS Congress 2012, Raffles City Convention Centre, Singapore, 3rd -4th August 2012.
14. Malhotra R (presenter), **Malhotra C**, Chan A, Østbye T. Psychometric Properties of the Caregiver Reaction Assessment scale among informal caregivers of older Singaporeans. Oral presentation. Gerontological Society of America 65th Annual Scientific Meeting, San Diego Convention Centre, San Diego, USA, 14th-18th November 2012.
15. Østbye T, Malhotra R (presenter), **Malhotra C**, Chan A. Foreign domestic workers lower the negative impact of older adult impairments on their informal caregivers: Findings from the Singapore Survey on Informal Caregiving. Poster presentation. Gerontological Society of America 65th Annual Scientific Meeting, San Diego Convention Centre, San Diego, USA, 14th-18th November 2012
16. Chan A, **Malhotra C**, Malhotra R (presenter), Rush J, Østbye T. Health Impact of Caregiving: Results from the Singapore Survey on Informal Caregiving. Poster presentation. Gerontological Society of America 65th Annual Scientific Meeting, San Diego Convention Centre, San Diego, USA, 14th-18th November 2012.
17. Malhotra R (presenter), Haaland BA, Chei CL, Chan A, **Malhotra C**, Matchar DB. Presence of and correction for interviewer error on an instrument assessing cognitive function: A multilevel analysis. Oral presentation. 20th IAGG World Congress of Gerontology and Geriatrics, COEX, Seoul, Korea, 23rd-27th June 2013.
18. Østbye T, Malhotra R (presenter), **Malhotra C**, Arambepola A, Chan A. Foreign domestic workers can ease the burden of caregiving: The Singapore Survey on Informal Caregiving. Oral presentation. 20th IAGG World Congress of Gerontology and Geriatrics, COEX, Seoul, Korea, 23rd-27th June 2013.
19. Chan A (presenter), **Malhotra C**, Malhotra R. Body mass index and waist circumference as predictors of mortality among older Singaporeans. Oral presentation at the IFA 11th Global Conference on Ageing, Prague Congress Centre, Prague, Czech Republic, 28th May-1st June 2012.

20. Chan A (presenter), **Malhotra C**, Malhotra R, Rush J, Østbye T. Health Impact of Care giving: Results from the Singapore Survey on Informal Caregiving. Oral presentation at the IFA 11th Global Conference on Ageing, Prague Congress Centre, Prague, Czech Republic, 28th May-1st June 2012
21. Chan A (presenter), **Malhotra C**, Malhotra R, Rush J, Østbye T. Health Impact of Care giving: Results from the Singapore Survey on Informal Caregiving. Poster presentation at the SingHealth Duke-NUS Congress 2012, Raffles City Convention Centre, Singapore, 3rd -4th August 2012.
22. Østbye T (presenter), Malhotra R, **Malhotra C**, Chan A. Foreign domestic workers lessen the negative impact of older adult impairments on their informal caregivers: Results from Singapore Survey on Informal Caregiving. Oral presentation at the SingHealth Duke-NUS Congress 2012, Raffles City Convention Centre, Singapore, 3rd -4th August 2012.
(Conferred with Best Oral Paper Award in the Health Services & Systems Research Category)
23. Chan A, **Malhotra C**, Malhotra R, Rush J, Østbye T (presenter). What are the health impacts of caregiving for older adults on family members? : Results from the Singapore Informal Care Survey. Oral presentation. Presented at the 2nd Asian Population Association Conference, Swissotel Le Concorde Hotel, Bangkok, Thailand, 26th -29th August 2012.
24. Østbye T (presenter), Malhotra R, **Malhotra C**, Chan A. Foreign domestic workers lessen the negative impact of older adult impairments on their informal caregivers: Results from Singapore Survey on Informal Caregiving. Poster presentation at the 2nd Asian Population Association Conference, Swissotel Le Concorde Hotel, Bangkok, Thailand, 26th -29th August 2012.
25. **Malhotra C.**, Farooqui M.A., Chan A., Finkelstein E.A. (presenter). End-of-life Care Preferences among Older Community-dwelling Singaporeans: A Conjoint Analysis. Gerontological Society of America 65th Annual Scientific Meeting, San Diego, USA. Nov 2012
26. **Malhotra C.**, Do Y.K. (presenter). Health system responsiveness, socioeconomic status and public health expenditure: Results from 63 countries. Global Symposium on Health Systems Research, Beijing, China. Nov- 2012
27. **Malhotra C**, Do Y.K. (presenter). Socioeconomic disparities in health system responsiveness in India Health System Reform in Asia 2011, Social Science & Medicine. Dec 2011
28. **Malhotra C**, Ozdemir S, Junxing C, Finkelstein E (presenter). Preferences for life extending treatments and palliative care among cancer patients in Singapore. Asia Pacific Hospice Conference, Taiwan, April 30-May 3, 2015.
29. **Malhotra C**, Finkelstein E (presenter). Heart failure patients' stated preference for aggressive end-of-life care: Does it change over time?" at the Asia Pacific Hospice Conference in Surabaya, Indonesia, 2-4th August 2019.
30. Hazirah S (presenter), Yoon S, **Malhotra C**. What causes misalignment between caregivers' overall goal of care and their preference for potentially life extending interventions for persons with severe dementia? At the 34th International Conference of Alzheimer's Disease International (virtual). 10-12th December 2020.

13. PROFESSIONAL AWARDS AND SPECIAL RECOGNITIONS:

1. Co-author on paper titled "Effect of health education on knowledge about transmission and control of dengue among nurses and nursing students of a tertiary level hospital of Delhi" awarded the **Best Poster award by Indian Association of Preventive and Social**

Medicine- Awarded in 2004 at the 31st Annual National Conference of the Indian Association of Preventive and Social Medicine, Chandigarh, India, 27th-29th February 2004.

2. **First prize for poster presentation for the paper** titled “Socio-demographic profile and injury pattern of road traffic accident victims in a tertiary care hospital of Delhi” Awarded in 2004 by the International Epidemiological Association Conference in Jhansi, India.
3. **Delta Omega Theta Award for Academic Excellence** awarded in 2008 by the Department of Maternal and Child Health, School of Public Health, University of North Carolina at Chapel Hill.
4. **Best Oral Paper Award in the Health Services & Systems Research Category** for paper titled “Depressive symptoms among older Singaporeans: do living arrangements and social networks matter?” conferred at the SingHealth Duke-NUS Congress 2010, Singapore, 15th - 16th October 2010.
5. Co-author on paper titled “Foreign domestic workers lessen the negative impact of older adult impairments on their informal caregivers: Results from Singapore Survey on Informal Caregiving” awarded the **Best Oral Paper Award in the Health Services & Systems Research Category** conferred at the SingHealth Duke-NUS Congress 2010, Singapore
6. **New Investigator Grant award** for the research project titled “Preferences for care at the end-of-life among middle-aged and older Singaporeans” by National Medical Research Council, Singapore in 2010
7. Co-author on paper titled “Perspectives of family carers on having a foreign domestic helper relive caregiver burden in families of patients with mild to moderate dementia” awarded the **Merchant Prize in Geriatric Medicine** by Yong Loo Lin School of Medicine, Singapore in 2013
8. **Outstanding presentation award** for the paper titled “Concordance in preferences for end-of-life care between advanced cancer patients and their caregivers in Singapore: A discrete choice experiment” at the Asia-Pacific Conference of the Society for Medical Decision Making, Singapore, 6-8 January 2014.
9. **First prize** for oral presentation of the paper titled “Physician recommendations, knowledge and perceived roles regarding provision of end of life care to patients with advanced serious illnesses in Singapore” at the Singapore Palliative Care Conference, Singapore, 28-29 June 2014.
10. **First prize for poster presentation titled** “Physician recommendations, knowledge and perceived roles regarding provision of end of life care to patients with advanced serious illnesses in Singapore” conferred at the SingHealth Duke-NUS Congress 2014, Singapore, 5-6 September 2014.
11. **Third prize for oral presentation titled** “Heart failure patients’ stated preference for aggressive end-of-life care: Does it change over time?” (Presented by co-author – Eric Finkelstein) at the Asia Pacific Hospice Conference in Surabaya, Indonesia, 2-4th August 2019.

14. **TEACHING RESPONSIBILITIES AND ADMINISTRATION:**

1. **Junior Resident, Community Medicine, Maulana Azad Medical College** (May 2001 – April 2004)
 - a. Organized field visits for undergraduate MBBS students to various centers/ departments/ public health agencies.
 - b. Trained and supervised MBBS medical students and interns posted at the urban and

rural health centers for providing health care services and for health education activities.

- c. Supervised staff including pharmacists, public health nurses, and social workers posted at the urban and rural health centers.
- b. **Senior Resident, Community Medicine, Maulana Azad Medical College** (June 2005 to July 2006)
 - a. Took theory lectures, tutorials and practical demonstration classes on various public health topics for undergraduate MBBS and nursing students.
 - b. Trained and supervised MBBS medical students, interns and post graduate (MD) students posted at the urban and rural health centers for providing health care services and for health education activities.
 - c. Involved in conduct of MBBS and MD Community Medicine examinations.
 - d. Supervised staff including pharmacists, public health nurses, and social workers posted at the urban and rural health centers.
- c. **Research Fellow**
 - a. Guest lecturer at NUS: Topics include Quantitative Data analysis (in 2010 and 2011 for sociology undergraduate students), Intimate Partner Violence (in 2009 for MPH students) and causes of maternal mortality (in 2009 for MPH students).
 - b. Lecture on “Interpretation of statistical results”, for “Certificate course on Outcomes research” conducted by Dr. Ricardo Pietrobon, Department of Health Services Research, Duke-NUS Medical School, Singapore (in June, July 2009)
- d. **Assistant Professor**
 - a. **Staff supervised:**
 - Hannah Beth Dalager (Research Assistant, 2012 to 2014)
 - Jissy Poullose (Research Fellow, 2012-2013)
 - Malikka Begum Binte Habib Moha (Research Assistant, 2014 to 2015)
 - Tsai Chia Hui (Research coordinator, 2014 to 2015)
 - Liu Joy Chang (Research Assistant, 2014 to 2016)
 - Ratna Singh (Research Associate, 2015 to 2018)
 - Shamala S. Sivananthan (Research Assistant, 2015 to 2017)
 - Xiang Ling (Research Associate, 2015 to 2017)
 - Renette Foo Shu Fen (Research coordinator, 2016 -)
 - Gao Ni (Research Associate, 2016 to 2017)
 - Sujyot Shaun Sakhrani (Research Associate, 2017)
 - Padmini (Research Assistant, 2017 to 2020)
 - Hu Meibo (Research Associate, 2018 to 2019)
 - Siti Hazirah Binte Mohamad (Research Associate, 2018 to date)
 - Filipinas Gines Bundoc (Research Assistant, 2019 till date)
 - Yong Jing Rong (Research Assistant, 2018 till date)
 - Rachel Ong (Research Assistant, 2019-2020)
 - Foo Jie Yi (Research Assistant, 2019-2020)
 - Mahham Shafiq (Research Assistant, 2020-)
 - Isha Chaudhry (Research Associate, 2020-)

b. Students mentored:

- Mentor - Shao Sheng Goh – NUS YLL School of Medicine (21 May to 13 Jul 2012)
- Co-mentor- James Cai, Ginny Quek, Eng Hui Ong and ZY Koh - NUS YLL School of Medicine (2013)
- Co-mentor - Weixi Jiang - Masters in Global Health student, Duke University (2013-14)
- Co-mentor- Danni Zhao- Masters in Global Health Student, Duke University (2017-2018)
- Mentor- Nurul Zafirah Binte Mohd Zain- Medical student, Royal College of Surgeons in Ireland (2019)
- Mentor - Jeselin Putri Andono - Third year medical student, Duke-NUS (2019-2020)
- Mentor- Koh Ling En- Third year medical student, Duke-NUS (2019-2020)
- Mentor – See Jia Wen Faith – Third year medical student, Duke NUS (2020-2021)
- Mentor – Lee Han Liang, Jonathan – Second year medical student, Duke NUS (2020-2021)
- Mentor – Huang Qin, Rachel – Second year medical student, Duke NUS (2020-2021)
- Mentor – I-Shin Su –Yale-NUS (2020-2021)

c. Classes taught:

- Current landscape and health services research priorities (in February 2014) for PhD students at Duke-NUS Graduate Medical School.
- Palliative care: current landscape and challenges (in September 2016, February 2017, March 2018) for Undergraduate students at NUS
- Palliative care for an Aging Population (Geriatrics and Nutrition Program, February 2017, May 2017, July 2017), *consistently received highest ratings among all lectures in the same program*
- Mixed-methods research, for HSSR core course for IBM PhD students at Duke-NUS Medical School, Jan 2017, September 2019
- Current landscape and challenges to end of life care in the Life Science Module LSM4217 Functional Aging at NUS (March 2017, March 2018, March 2019, March 2020, March 2021)
- Course coordinator for Health Services and Systems Research (GMS6950)- core course for HSSR IBM PhD students
- Introduction to Health Services and Systems Research (GMS6950), August 2019

d. Lab rotations of PhD students

- Mervyn Chan Huan Hao (Duke-NUS, IBM PhD): November 2017- January 2018
- Felicia Ang Jia Ler (Duke-NUS, IBM PhD): October 2019
- Low Xinyi Casuarine (Duke-NUS, IBM PhD): September 2020

e. Thesis review

- Review and grade Duke-NUS MD student thesis- 2016, 2017, 2018, 2019, 2020, 2021

f. Other Duke-NUS PhD student activities

- Interviewed prospective PhD students for admission to IBM PhD program in February 2017
- Member of PQE committee for Kwan Yu Heng (PhD student in HSSR) in August 2017
- Member of thesis defense committee for Wan Chen (PhD student in HSSR) on February 2018
- Chair/c-chair HSSR orientation presentations for Prospective PhD students (2018, 2020)
- HSSR PhD course coordinator (2018-)

- Member of Graduate Program Executive Committee (2018-)
- Member Academic Affairs Committee (2018-)
- Member of Admissions Committee of the IBM PhD Program (2018-)
- Chair IBM PhD student seminars (2017-)
- Member of PQE committee for Yeo Sing Chen (PhD student in Neuroscience & Behavioural Disorders Programme, Chronobiology and Sleep Laboratory, PI Joshua Gooley) in May 2019
- Member of thesis defense committee for Kwan Yu Heng (PhD student in HSSR) on October 2019
- Member of PQE committee for Xie Feng (PhD student in HSSR, PI Woon Puay) in August 2019
- Member of PQE committee for Jon Barrenetxea Carrasco (PhD student in HSSR, PI Woon Puay) in October 2019
 - Member of PQE committee for Ying Fangting Ariel (PhD student in HSSR) in June 2021
- Member of PQE committee for Felicia Ang (PhD student in HSSR), July 2021
- Member, Thesis Advisory Committee, Zu Anqi

g. Other administrative responsibilities

- Represent HSSR at the ACP/SRP Open House for 2nd year medical students (Dec 2018, June 2020)
- Represent HSSR for PhD Open House (2020)

15. PERSONAL INFORMATION:

1. Preferred email contact: chetna.malhotra@duke-nus.edu.sg
2. Local home address: Block 15, #03-01, Waterwoods, Punggol Field Walk, 828746
3. Marital status: Married
4. Name of spouse: Rahul Malhotra