

Table 1. Characteristics of included studies

Author (year)	Design of study	Study population	Sample size and sampling methods	Outcome variable(s)	Data source for outcome	Individual determinants	Societal determinants	Data source for determinants
Ge et al. ²¹ (2020)	Cross-sectional study	Community-dwelling older adults aged ≥ 60 years	701 Random selection within eligible household using Kish grid	Healthcare utilisation, including emergency department visits	Administrative database	Frailty		Questionnaire
Lau et al. ²³ (2021)	Cross-sectional study	Singaporean residents aged ≥ 60 years	399 caregiver-PWD dyads Disproportionate stratified sampling	Emergency service utilisation and hospital admission	Questionnaire from Well-being of the Singapore Elderly (WiSE) study	Caregiver distress from BPSD Caregiver psychiatric comorbidity Caregiver burden Multimorbidity and severity of dementia among PWD Household composition and income of PWD		Administrative database
Ng et al. ¹⁹ (2009)	Cross-sectional study	Community-living Chinese elderly aged ≥ 65 years	1281	Hospitalisations (≥ 1) in past year	Questionnaire from Singapore Longitudinal Ageing study	Successful ageing		Questionnaire
Ong et al. ¹⁷ (2018)	Randomised controlled trial	Older adults aged ≥ 65 , living alone, experienced fall in last 6 months	162 elderly Random sampling for 90 to receive telephone follow-up and 72 to receive MAPS	Number of emergency department visits	Telephone interview	Telephone follow-up	MAPS	Questionnaire
Seng et al. ²² (2019)	Retrospective cohort study	Patients under care of SingHealth Regional Health System	10400 elderly staying in public rental housing	Number of emergency department visits	Administrative database	Socio-demographics (age, gender, ethnicity, type of housing) Comorbidities		Administrative database
Vaingankar et al. ²⁴ (2017)	Cross-sectional study as part of WiSE	Singapore residents aged ≥ 60 years	2102 Random selection with disproportionate stratified sampling	Service utilisation in past 3 months, including emergency room visits	Interviewer administered survey	Frailty Socio-demographics		Interviewer administered survey

Wee et al. ²⁰ (2019)	Cross-sectional study	Residents aged ≥60 years living in public rental housing	928	Emergency room visit in past 6 months	Interviewer administered standardised questionnaire	Socio-demographics Family make-up Health status and physical disabilities/limitations Health behaviours Social network and isolation Psychological health and stressors Income sources and perception of financial adequacy Medication adherence Quality of life	Interviewer administered standardised questionnaire
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BPSD: Behavioural and psychological symptoms of dementia; MAPS: Medical Alert Protection System; PWD: patients with dementia; WiSE: Well-being of the Singapore Elderly