Article title: Developing a Conceptual Framework for an Age-Friendly Health System: A Scoping Review

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Authors' information: Badrye Karami¹, Abbas Ostad-Taghizadeh², Arash Rashidian¹, Maryam Tajvar¹*

¹Department of Health Management and Economics, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran.

²Department of Disaster & Emergency Health, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran.

(*Corresponding author: Email: mtajvar@tums.ac.ir)

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Supplementary file 2

Ref. Langu	Sample, setting, design, Study place	Assessed dimensions of conceptual framework	Summary of Findings
Wright ¹ , 2020 English	Cross-section study Survey1: 1257 older patients who were medically complex; Survey2: 2873 older patients who visited outpatient primary care providers (PCPs). The US. Idaho	Service delivery	Four essential domains of high-quality health care for older outpatients (Medications, Mobility, Mentation, and "what Matters," i.e., the 4 M's).
Winterton ² , 2020 English	Integrative review methodology Rural Australian health systems	Service delivery	High-level age-friendly health-care interventions within rural Australian health systems.
Willoughby ³ , 2020 English	Mixed methods study comprised Nominal group technique and a follow-up online survey. 10 participants based on their expertise in aged care practice, nursing, policy, research, caregiver advocacy, and quality improvement in the aged and healthcare sectors. Australia	Service delivery	Developed recommendations to reduce harm and improve the quality of care for older people in Residential respite care (RRC).
Villalobos Dintrans ⁴ ,	Review of experience of three countries (German, The	Service	Presents a structure to analyze long-term care systems
2020	Netherland, Korea) with LTC system	delivery /	based on four components: beneficiaries, benefits,
English	Chan School of Public Health, Boston, USA	stakeholders	providers, and financing.

Table S2. Characteristics and summary of findings of the included studies

Nora Super ⁵ , 2020 English	Review of innovative approaches The Wharton School, University of Pennsylvania	Service delivery	Introduce new approaches for coverage of long-term care costs in older people.
Southerland ⁶ , 2020 English	Descriptive study of 4 geriatric Emergency Department models of care The American College of Emergency Physicians	Resources	Describes developed 4 different models of comprehensive geriatric care in the Emergency Department setting.
Shaarbafchi Zadeh ⁷ , 2020 Farsi	Descriptive-comparative approach of three countries (United States of America, Sweden and Iran) Isfahan University of Medical Sciences, Isfahan, Iran	Service delivery/ Resources	A comparison of Iran, the USA, and Sweden in terms of population health status, types of elderly services and types of elderly service providers has been.
Schwartz ⁸ , 2020 English	Report of Half-day workshop for interprofessional trainees VA Boston Healthcare System, Boston, Massachusetts, USA	Service delivery/ Resources	Introduce the Geriatric 5Ms framework (Mobility, Mind, Medications, Multi complexity, what Matters).
Rudnicka ⁹ , 2020 English	Descriptive study of objectives and priorities identified by WHO Department of Gynecological Endocrinology, Karowa, Warsaw, Poland	Service delivery	Introduce the main objectives and priorities identified by WHO in relation to healthy ageing.
Phua ¹⁰ , 2020 English	A revive the ideals of the World Health Organization (WHO) Alma-Ata Declaration 40 years later Graduate School of Public Policy, Nazarbayev University, NurSultan, Kazakhstan.	Resources	Financing Long-term Care for All in Asia.
Pettis ¹¹ , 2020 English	A review of Age-Friendly Care for Older Adults with the NICHE Program Catholic Health Association of the United States	Resources	Alignment of NICHE Resources with Age-Friendly Health Systems Principles.
Pettis ¹² , 2020 English	An overview of the Age-Friendly Health Systems Initiative and a number of nurse-led programs NYU Rory Meyers College of Nursing, New York, NY, USA	Service delivery	Overview of the Age-Friendly Health Systems Initiative and how within it nurses can serve as leaders in ensuring age-friendly care for older adults.
Mudge ¹³ , 2020 English	Interpretive phenomenological study, using open-ended interviews Royal Brisbane and Women's Hospital; University of Queensland School of Clinical Medicine. Australia	All dimensions	Barriers and enablers to achieving older person friendly hospital (OPFH) from the perspective of key informants within an academic health system.
Marsden ¹⁴ , 2020 English	Descriptive qualitative study 24 semi-structured with emergency department staff and GEDI doctors and nurses. A regional hospital in Queensland, Australia	Service delivery/ Resources	To describe and evaluate the structures and processes required for the effective delivery of the e geriatric emergency department intervention (GEDI) model.
Li ¹⁵ , 2020 English	A cross-sectional survey utilized mixed research methods 772 surveys with aged people (over 60 years old), 16 focus group discussions (FGDs) with 96 aged people, and 32 in- depth interviews with 16 LHWs and 16 leaders were completed in PHC sectors.	Governance	To understand the achievements made and challenges faced by healthcare management for the aged (HMA) in Southwest China.

	Department of Social Medicine and Health Service Management, Army Medical University		
Kim ¹⁶ , 2020 English	Systematic review, literature review, benchmarking, focus group interviews (8 elderly inpatients, 6 family members of patients, and 14 elderly residents living in the community), and expert consultation. Konkuk University Medical Center	Service delivery	To established a senior-friendly hospital (SFH) working group for the development of a senior-specific, citizen- oriented healthcare service system.
Jung ¹⁷ , 2020 English	A quasi-experimental repeated-measures design (at baseline and at 6 and 12 weeks after the intervention) Two similar LTCs for the study—they were both in Seoul	Service delivery	To develop and test the effect of the Korean Function- Focused Care Programme (K-FFCP) on cognition and physical and psychological status in long-term care facilities' (LTCs) residents.
Gori ¹⁸ , 2020 English	Comment on "Financing Long-term Care: Lessons from Japan" Department of Sociology and Social Research, University of Trento, Trento, Italy	Resources	Long-term Care Financing: Politics of Long-term Care.
Gilmartin ¹⁹ , 2020 English	Suggestions on how nurses can integrate assessment tools into their practice to develop individual NYU Meyers College of Nursing, United States	Service delivery	Integrating the 4Ms and the SPICES model to support age-friendly nursing care for older adults.
Fu ²⁰ , 2020 English	Design the data analysis module of the elderly health service monitoring system (HSMS) and attempt to put forward a new healthy aging (HA) model Basel, Switzerland	Goals and outcome.	To design the data analysis module of the elderly health service monitoring system (HSMS) and attempt to put forward a new healthy aging (HA) model.
Feng ²¹ , 2020 English	Comment on "Financing Long-term Care: Lessons from Japan" RTI International, Waltham, MA, USA. The World Bank, Washington, DC, USA	Resources	Advancing Public Social Insurance for Long term Care to Meet the Global Aging Challenge.
Dintrans ²² , 2020 English	Cross sectional study, propose a generic framework to assess the health system's preparedness using 3 nationally-representative sources: health status, financial protection, and responsiveness Santiago, Chile	Resources/ outcome and goal	To propose a generic framework to assess the health system's preparedness to deal with the challenges of an aging population and use it to test the Chilean health system's response to older people's health needs.
De Biasi ²³ , 2020 English	Original Research Article for piloting the implementation of an Age-Friendly Public Health System Florida's county health departments and at the state level, USA	Service delivery/ governance	An age-friendly public health logic model.
Casanova ²⁴ , 2020 English	Reports the findings of a comparative research focusing on the Italian and Israeli LTC systems National Institute of Health & Science on Ageing, Ancona, Italy	Service delivery	Current indicators of long-term care (LTC) demand and provision in Israel and Italy.

Cacchione ²⁵ , 2020 English	A review of past and present models of care University of Pennsylvania School of Nursing, United States	Service delivery	Review of Community based long-term care models, Long-term Care Models, Acute care.
Asadzadeh ²⁶ , 2020 Farsi	A narrative review that was conducted comparatively Iran, Tehran, University Azad Islamic, branch N	Service delivery/ information	A comparative review study to examine the care method and service provided to the elderly in Italy, Sweden, the Netherlands, Norway, Germany, Japan, Turkey and Iran.
Arakawa ²⁷ , 2020 English	Exploratory, multidisciplinary pilot study 60 participants from a geriatric Outpatient Clinic were engaged in a concurrent mixed-method approach, comprising a comprehensive geriatric survey, walking observation, semi-structured interview and an independent architectural audit. Metropolitan public hospital in Australia	Resources	Theme Analysis and Built Environment Audit: This study revealed that features of the environment can act as barriers or enablers when accessing and using a hospital.
Arain ²⁸ , 2020 English	Mixed methods approach, 76 Direct Care Staff 12 interviews with staffs for data collection Healthcare Organization in Western Canada	Service delivery	The program fits the "4 M" criteria for Elder-Friendly Care (EFC).
Allen ²⁹ , 2020 English	Describes an innovation and operations infrastructure that was successfully tested in two independent and geographically distinct community health systems Center Of Excellence in Aging and Lifelong Health, Williamsburg, Virginia.	All dimensions	An Innovation Center Model to Transform Health Systems to Improve Care of Older Adult.
Adler-Milstein ³⁰ , 2020 English	online survey of a national 797 US acute-care hospitals in 2018-2019 Acute-Care Hospitals In USA	Resources	To measure US hospitals' adoption of electronic health record (EHR) functions focusing on structured documentation of the 4Ms and electronic health information exchange/communication with patients, caregivers, and long-term care providers.
Abbasian ³¹ , 2020 English	Multiphasic study consists of a scoping review of existent Health care provision modalities for the elderly population worldwide, and the disposition of an optimal Health care provision scheme for the elderly population Faculty Of Health, Tabriz University of Medical Sciences, Tabriz, Iran	Service delivery	To scrutinize the best available scientific evidence on the international integrated elderly health care governance (HCG) models to revamp health care practice and policy- making processes in Iran. This model (IEHCG-IR) included four dimensions consistent with the four levels of prevention along with social support services.
Tran ³² , 2019 English	Report is to review the evidence-based guidelines regarding senior friendly hospital care (A limited literature search). Canada	All dimensions	To review the evidence-based guidelines regarding senior friendly hospital care (Recommendations for Hospitals).
Ssensamba ³³ , 2019 English	Cross-sectional study 18 randomly selected health facilities (HFs)	Service delivery	To explored the readiness of Uganda's public health system to offer geriatric friendly care services in Southern Central Uganda.

	Public primary health care facilities in Southern Central		
	Uganda.		
Rahmanpour ³⁴ ,	Qualitative methodological research	Resources	Determine effective factors in an assessing tool for
2019	Literature review and psychometrics validation		evaluating the structural characteristics of age friendly
Farsi	Babol University of Medical of Sciences		hospitals.
Molnar ³⁵ ,	Review of 5Ms	Service delivery	Geriatric 5Ms: mind, mobility, medications,
2019	University in Montreal, Canada		Multicomplexity, and matters most.
English			
Aseyedali ³⁶ ,	Library search method using purposeful sampling	Resources/	A Review on Adult Daycare Centers in the World.
2019	Daycare centers from Iran, Bahrain, Japan, China, UK and	Service delivery	
English	USA		
Kyani ³⁷ ,	Descriptive, analytic and cross-sectional study	Service delivery	Made items 47 age friendly hospital questionnaire.
2019	408 physicians, nurses, and paramedical staff of hospitals		
Farsi	from across the country by cluster sampling.		
	Physician, nurses and paramedical staff of hospitals of Iran		
Kuo ³⁸ ,	Observational study with a pre- and posttest design	Service delivery	Applying the change model to describe the AFH
2019	584 employees in hospital		certification process and strategies.
English	Teaching hospital in Taiwan		
Fulmer ³⁹ ,	Conceptual review of 4Ms	Service delivery	The 4Ms: Interventions and Actions.
2019	New York University Rory Meyers College of Nursing		
English			
Flaherty ⁴⁰ ,	Review of the Coordinating Center and Examples of the	Resources	The Geriatric Workforce Enhancement Program (GWEP)
2019	GWEP (Geriatric Workforce Enhancement Program) in		in 2015.
English	Practice		
	University of North Carolina School of Medicine (JBW),		
	Chapel Hill, North Carolina		
Evans ⁴¹ ,	Rapid scoping review of systematic reviews	Service delivery	Service Delivery Models to Maximize Quality of Life for
2019	King's College London, Cicely Saunders Institute of		Older People at the End of Life.
English	Palliative Care, Policy and Rehabilitation, United		
	Kingdom		
Bates ⁴² ,	Research report with Semi-structured qualitative	Resources	Specific high-level interventions for the Age-Friendly
2019	interviews with 28 practicing geriatricians, academic		Health System 4Ms.
English	researchers, clinician educators, healthcare philanthropists,		
_	and representatives from professional geriatric societies.		
	The Health Resources and Services Administration		
	(HRSA) of the US Department of Health and Human		
	Services (HHS)		
Alimohammadzadeh	Qualitative methodology	Resources	Significant indicators from elders' viewpoints:
43,	Interview with 30 older people over 65 years		"protective environment" and "attentive environment" of
2019			age-friendly health centers.

Farsi	Department of Health Services Management, North Tehran Branch, Islamic Azad University, Tehran, Iran		
Wankah ⁴⁴ , 2018 English	A qualitative multiple case study and semi-structured interviews of 28 providers Québec, Canada	Service delivery	Providers' Perspectives on the Implementation of Mandated Local Health Networks for Older People in Québec.
Vasudha ⁴⁵ , 2018 English	Cross sectional study, 204 patients above the age of 60 years were considered as research subjects for the study Tertiary care teaching hospital in the coastal city of Karnataka, India	Resources/ information/ stakeholders	Needs assessment by geriatrics for healthcare services.
Sivakumar ⁴⁶ , 2018 English	Editorial Institute of Mental Health & Neuro Sciences, Hosur Road, Bengaluru, India	Resources	Creating age friendly health systems in India.
Samir ⁴⁷ , 2018 English	Quasi-experimental time series analysis of 12,008 older patients admitted non-electively for acute medical issues over a 6-year period Mount Sinai Hospital, Canada	Service delivery	Mount Sinai's ACE Strategy and discusses the benefits of implementing integrated evidence-based models elder- friendly hospital interventions.
Shih ⁴⁸ , 2018 English	Cross sectional study 2580patients age over 65 years old and/or their companions in hospital of Taiwan Show Chwan Health Care System, Changhua County, Taiwan	Governance/ Resources	The questionnaire of Elderly Patients' Satisfaction toward Hospital Brands and Age-friendly Policies.
McCusker ⁴⁹ , 2018 English	Qualitative methodology. Lead ED nurses and physicians at 76 Quebec EDs: This study comprised four steps: (1) content development of the tool in collaboration with an advisory panel, (2) a survey of lead physician and nurse informants at Quebec EDs, (3) development of subscales, and (4) construct validation of the subscales. Province of Quebec, Canada	Resources	To develop and validate a comprehensive quality assessment tool for emergency department (ED) geriatric care.
Mate ⁵⁰ , 2018 English	Opinion paper Institute for Healthcare Improvement (IHI), United States	All dimensions	Introduce 4Ms model.
Samimi Sedeh ⁵¹ , 2018 Farsi	Descriptive, analytical study 20 human resources experts The 10 high-level documentation of the health system was investigated by using Delphi technique Department of Health Services Management, Faculty of Management, Islamic Azad University, South Tehran Branch, Tehran, Iran	Resources	The Necessity of Aligning the Human Resources Strategies of Health System with the Mega-Trends of the Older People Health Domain.

Fulmer ⁵² , 2018	Special article: introduce 4ms The John A. Hartford Foundation, New York, New York	Service delivery	Introduce 4Ms model.
English	The John A. Hartford Foundation, New Fork, New Fork		
Fulmer ⁵³ , 2018 English	Conceptual review The John A. Hartford Foundation, New York, New York	Service delivery	Introduce 4Ms model with focusing on Older Adults with Dementia.
Deschodt ⁵⁴ , 2018 English	Cross-sectional survey study 178 general hospitals Belgium, Denmark, Estonia, Greece, Iceland, Ireland, Malta, and Slovenia	Service delivery	Development of questionnaire according to CGA (Comprehensive geriatric assessment)-based models.
Briggs ⁵⁵ , 2018 English	A systematic search Department of Ageing and Life Course, World Health Organization, Geneva, Switzerland	Service delivery	The most commonly reported elements of the integrated care.
Allen ⁵⁶ , 2018 English	Editorial College of Medicine, Florida Atlantic University, Boca Raton, FL	Service delivery/ Resources	Introduce 4Ms model.
Tinetti ⁵⁷ , 2017 English	Letter to the editor Department of Medicine, Department of Public Health, Chief of Geriatrics, School of Medicine, Yale University, New Haven, CT	Service delivery	Introduce 5Ms model Mind, Mobility, Medications, Multicomplexity, and Matters.
Threapleton ⁵⁸ , 2017 English	A scoping review The School of Public Health and Primary Care, Prince of Wales Hospital, The Chinese University of Hong Kong, Hong Kong, China SAR	Service delivery	Integrated care for older populations and its implementation facilitators and barriers.
Pitheckoff ⁵⁹ , 2017 English	Conceptual review Department of Gerontology, University of Massachusetts Boston	Resources	Policies for Aging in the Republic of Bulgaria.
Pelton ⁶⁰ , 2018 English	Conceptual review The Institute for Healthcare Improvement, Cambridge, Massachusetts	Service delivery	More details on what the five participating health systems are learning across the 4Ms model.
World Health Organization ⁶¹ , 2017 English	Report World Health Organization	All dimensions	Problems that matter for older people; For designing age friendly health system.
Lepir ⁶² , 2017 English	Conceptual review University of Banjaluka, Faculty of political science, Department for Social work, Duke Petar Bojović boulevard 1a, Banjaluka, Bosnia and Herzegovina	Resources	Human resource management in the institutions for care of elderly people.
Kim ⁶³ , 2017	Qualitative methodology 15 participants experts	Service delivery	Development of the Korean Framework for Senior- Friendly Hospitals.

English	department of Neurology, Konkuk University Medical Center, Seoul, Korea		
Gonzalez ⁶⁴ , 2017 English	DH Commentary Research Faculty, Claude Pepper Center, Florida State University, Tallahassee, Florida, USA	Service delivery	A Focus on the Program of All-Inclusive Care for the Elderly (PACE).
Ghasemi ⁶⁵ , 2017 English	Comprehensive literature review Department of Health Education and Health Promotion, School of Public Health, Shahid Beheshti University of Medical Sciences, Tehran, Iran	Information	The most important health needs were investigated.
Fuster ⁶⁶ , 2017 English	Editorial Wiener Cardiovascular Institute, Icahn School of Medicine at Mount Sinai, New York, New York.	Service delivery	A New Approach to Global Health Care Due to the Aging Population.
Brouwers ⁶⁷ , 2017 English	Qualitative study semi-structured interviews were conducted with 18 different primary and secondary healthcare professionals working in the acute care chain Department of Public and Occupational Health, Amsterdam Public Health Research Institute, VU Medical Center, Amsterdam, the Netherlands	Service delivery	The obstacles and potential improvement opportunities of the acute care process for older patients arriving at the hospital.
Brenna ⁶⁸ , 2017 English	Case study an Italian region, Lombardy Department of Economics and Finance, Università Cattolica del Sacro Cuore, Milan, Italy	Resources	A Case Study of Elderly Care Financing in Lombardy, Italy.
Bastani ⁶⁹ , 2017 Farsi	Cross sectional study 33 hospital pharmacies Brain storming meeting with 10 geriatricians and pharmacists Hospital pharmacies in Shiraz	Resources	Evaluated the senior friendly pharmacy by research made checklist: Physical, Health care, logistics and supply services, Drug, Emotional.
Åberg ⁷⁰ , 2017 English	Qualitative descriptive with data being collected from focus-group interviews with 32 members of geriatric care teams Swedish university hospital with 69 beds for geriatric care	Resources	Describe factors of importance for the quality of hospital- based geriatric care from an inter-disciplinary team perspective.
Yang ⁷¹ , 2016 English	A focused systematic narrative review Centre for Health Services Research Personal Social Services Research Unit, University of Kent, UK	Resources	Financing institutional long-term care for the elderly in China.
Santos ⁷² , 2016 English	Descriptive, quantitative studying Delphi technique (the first round of the Delphi panel had 72 participants, the second 49, and the third 44 nurses with professional experience in the ES and/or researchers with publications and/or conducting research in the study area were selected)	Resources/ Service delivery	To identify and analyze the aspects necessary for an elder-friendly care in the Brazilian emergency departments from the perspective of nurses.

	Rua São Manoel, Porto Alegre, RS, Brazil		
Lu ⁷³ , 2016 English	A cross-sectional analysis using the 2010 Taiwan's Longitudinal Health Insurance Database included 999,418 beneficiaries Taiwan	Resources	Comparisons of annual health care utilization, drug consumption, and medical expenditure between the elderly and general population in Taiwan.
Costley ⁷⁴ , 2016 English	A study exposing 13 undergraduate gerontology students to the "professional practice" of GCM in two introductory and intermediate core courses Department of Health and Physical Education & Gerontological Studies and Services, York College-City University of New York, Jamaica, New York, USA	Resources	Professional Skills Through Geriatric Care Management.
Wodchis ⁷⁵ , 2015 English	Structured cross-case synthesis of seven integrated care programs in Australia, Canada, the Netherlands, New Zealand, Sweden, the UK and the USA. Institute for Health Policy Management and Evaluation, University of Toronto; Toronto Rehabilitation Institute; Institute for Clinical Evaluative Sciences, Toronto, Canada	Service delivery	Integrating care for older people with complex needs: key insights and lessons from a seven-country cross-case analysis.
Thoma-Lürken ⁷⁶ , 2015 English	Descriptive cross-sectional study 32 long-term care organizations in the region of Limburg in The Netherlands Province of Limburg/ The Netherlands	Service delivery	An Overview of Potential Labor-Saving and Quality- Improving Innovations in Long-Term Care for Older People.
McCabe ⁷⁷ , 2015 English	Conceptual Review Department of Age-Related Health Care, Tallaght Hospital, Dublin, Ireland	Service delivery	Components of comprehensive geriatric assessment.
Kinnear ⁷⁸ , 2015 English	Cross-sectional analytical study survey with 192 health and social care professionals across 4 NHS Trusts in England College of Health and Life Sciences, Brunel University London, Uxbridge, UK	Service delivery/ Resources	Facilitators and barriers to delivering dignified care were categorized into three domains: 'organizational level'; 'ward level' and 'individual level.
Karki ⁷⁹ , 2015 English	Qualitative study33 hospitalized older patients and 4 hospital managers inKathmandu, NepalDepartment of Public Health, Nobel College, PokharaUniversity, Kathmandu, Nepal	Governance/ Resources/ Information	To explore the older people's perspectives on an "elderly- friendly" hospital.
Bakker ⁸⁰ , 2015 English	Book (Frailty in Aging) Department of Geriatric Medicine, Radboud University Medical Center, Nijmegen, The Netherlands	Service delivery	Main indicators of whether adequate care for hospitalized frail elderly patients in hospital.

Alhamdan ⁸¹ , 2015 English	Descriptive cross-sectional study 15 randomly selected PHCCs in Riyadh City, KSA Selected PHCCs in Riyadh City, KSA Department of Community Health Sciences, College of Medicine, King Saud	All dimensions	To evaluate the health care services provided for older adults in PHCCs according to The World Health Organization toolkit.
Ahmadi ⁸² , 2015 English	Descriptive study 26 hospitals in Tehran Iran	Resources	Investigate the extent in which hospitals at Tehran meet the criteria of age-friendly hospitals (checklist with 50 items) based on the WHO age-friendly principles.
Wong ⁸³ , 2014 English	Cross Sectional Study 155 hospitals in Ontario Every hospital in Ontario that serves adults participated in the SFH self-assessment (155 completed submissions)	Outcome and goal	To describes the application of one such framework—the Senior-Friendly Hospital (SFH) framework adopted in Ontario, SFH self-assessment survey comprised 38 questions within the five domains of the SFH framework.
Pape ⁸⁴ , 2014 English	Editorial Department of Orthopedics/Trauma, Aachen University Medical Center, Germany	Resource	Development of geriatric trauma centers – An effort by the German Society for Trauma and Orthopedics.
Oliver ⁸⁵ , 2014 English	Commentaries Royal Berkshire NHS Foundation Trust, Reading, UK	Service delivery	Making Health and Care Systems Fit for and Ageing Population. Why We Wrote It, Who We Wrote It For, and How Relevant It Might Be to Canada.
Kim ⁸⁶ , 2013 English	Descriptive study 191 practitioners in the medical and design fields South Korea University of Florida and Mikyoung Ha, Ph.D., Yonsei University, South Korea	Resources/ Service delivery	To estimate the overall success of services at Gangnam Senior Plaza (GSP) in Korea, determine the effect of GSP on users, and ascertain local demand for services. HAPI (Healthy Body, Active Mind, Productive Lifestyle and Integrative Ageing) life model.
Daraei ⁸⁷ , 2014 Farsi	Review Tehran, Iran	Service delivery	Evaluation of how to provide health services in private centers and NGOs in Tehran, 2014.
Woo, Jean ⁸⁸ , 2013 English	Qualitative methods 12 hospital authority staff working in the public system 3 randomly-selected community elderly social centers Department of Medicine & Therapeutics, Faculty of Medicine, The Chinese University of Hong Kong	Service delivery	Focus group interviews among service providers for elderly people and community groups of older people using the WHO guidelines.
Tracy ⁸⁹ , 2013 English	Exploratory descriptive study 65 years of age or older patients of IMPACT clinic in the Family Practice Unit. Department of Family and Community Medicine at Sunnybrook Health Sciences Centre in Toronto, Ontario	Service delivery	To design and evaluate a new interprofessional model of care for community-dwelling seniors with complex health care needs and to explore the potential of this new model as an interprofessional training opportunity.
Spoorenberg ⁹⁰ , 2013 English	Randomized controlled trial elderly persons 75 years and older Three municipalities in the province of Groningen, the Netherlands.	Service delivery	To investigate the effectiveness of Embrace, a population- based model for integrated elderly care, regarding patient outcomes, service use, costs, and quality of care.

Schwartz, Rhonda ⁹¹ , 2013 English	Conceptual review Central East Regional Specialized Geriatric Services	Service delivery	SFH (senior friendly hospital) self-assessment template in Toronto, Canada.
Rechel ⁹² , 2013 English	Report European Observatory on Health Systems and Policies, London School of Economics and Political Science, London, UK	Information	Age friendly Health systems and Ageing in the European Union.
Lee ⁹³ , 2013 English	Cross sectional study 18 operational agencies in Korea 2263 participants registered in long-term care institutions and registered in the Korean national long-term care insurance system	Service delivery	To identify the effects of community-based home healthcare projects that influence service performances in older adults.
Lakhan ⁹⁴ , 2013 English	Prospective cohort study 360 patients aged \geq 70 years three metropolitan hospitals in Brisbane, Australia	Service delivery	The Higher Care at Discharge Index (HCDI): Identifying older patients at risk of requiring a higher level of care at discharge.
Kim, D ⁹⁵ , 2014 English	4-week survey 1188 participants aged over 50 years old South Korea	Resources	To explore the perceptions of design elements for elder- friendly hospitals: Fall prevention, Privacy, Familiarity, Wayfinding, Social support, Nature distraction, Infection prevention.
Kehusmaa ⁹⁶ , 2013 English	Cross sectional study 732 persons aged 65+ years Research Department, Social Insurance Institution of Finland, Helsinki, Finland	Resources	To examine to what extent informal care reduces public expenditure on elderly care.
Carpenter ⁹⁷ , 2013 English	Conceptual review National Center for Research Resources through the North Carolina Translational and Clinical Science Institute	Service delivery	Considerations for the geriatric-friendly Emergency Department.
World Health Organization ⁹⁸ , 2013 English	Meeting Report World health organization regional office for the western pacific	Service delivery/ Governance/ Resources/ Outcome and Goal	To strengthen age-friendly health systems which provide acceptable and accessible health services of sufficient quality to be effective across the care continuum.
Wideman ⁹⁹ , 2012 English	Conceptual review Faculty Practice and Outreach at Rush University College of Nursing and Geriatric Care, Chicago, Illinois	Service delivery	Review the (Geriatric Care Manager) GCM; The GCM is most often a nurse or social worker experienced in gerontology and case management.
Pascucci ¹⁰⁰ , 2012 English	Descriptive correlational study 52 of people aged 80 and older University of Oklahoma College of Nursing, Tulsa, Oklahoma, United States	Service delivery	To explore the factors that contribute to health promotion in the oldest old and the barriers that prevent it.
Ryan ¹⁰¹ , 2011	Conceptual review Regional Geriatric Program of Toronto, Canada	Resources	Introduce The Senior Friendly Hospital framework.

English			
Nicholas ¹⁰² , 2011 English	Conceptual review University of Rochester School of Medicine, Rochester, NY	Service delivery	Screening and Preventive Services for Older Adults.
Ontario. Waterloo Wellington ¹⁰³ , 2011 English	Report Regional Geriatric Program Central and Waterloo Wellington LHIN	Service delivery	Key enablers and recommendations for senior friendly care in hospitals across the WWLHIN (Waterloo Wellington LHIN).
Kelley ¹⁰⁴ , 2011 English	Qualitative study focused ethnography Interviews with seniors or their proxy decision-makers, staff and key community informants; on-site observations; a staff survey; and hospital administrative data Regional acute care hospital located in Ontario, Canada	Service delivery	Using a 'senior-friendly' conceptual framework that included the physical environment, social climate, hospital policies and procedures, and wider health care system.
Huang ¹⁰⁵ , 2011 English	Systematic Reviews/ Meta-analysis Division of Geriatric Medicine, McGill University Health Centre, Montreal, PQ, Canada	Service delivery	The Age-friendly Hospital concept; Guiding principles.
Erler ¹⁰⁶ , 2011 English	Comparative review Institute of General Practice, Johann Wolfgang Goethe- University, Frankfurt/Main, Germany	Service delivery	Preparing primary care for the future– perspectives from the Netherlands, England, and USA.
Rejeh ¹⁰⁷ , 2010 Farsi	Qualitative study Interview with 27 older people (65-81 years) Department of Nursing, Shahed University, and member of the Center for Management Research and Education of the Client - Department of Aging Health	Service delivery	Describe and explain older adults' perspectives on the experience of their hospitalization.
Rashmi ¹⁰⁸ , 2010 English	Dissertation Department of community health, john medical college Bangalore, India.	Service delivery	Make checklist 44 item for assessing senior friendly hospital include 4 domains.
Lin ¹⁰⁹ , 2010 English	Conceptual review Center for Geriatrics and Gerontology, Taipei Veterans, Taipei, Taiwan	Service delivery	Strategies of the health-care system for older people in Taipei.
Leng ¹¹⁰ , 2010 English	Review Johns Hopkins University School of Medicine (JHU) and Peking Union Medical College (PUMC)	Service delivery/ Resources	An International Model for Geriatrics Program Development in China: The Johns Hopkins–Peking Union Medical College Experience.
Lehning ¹¹¹ , 2010 English	Report School of Social Welfare, University of California– Berkeley; and Bay Area Social Services Consortium, Berkeley, California, USA	Service delivery	Long-Term Care in the United States: Policy Themes and Promising Practices.

Hickman ¹¹² , 2010 English	Descriptive study School of Nursing (Sydney), Australia, The University of Notre Dame Australia	Service delivery	Describes the elements of the Chronic Care Model (CCM) and discusses how a chronic care approach can improve models of care delivery for older persons in the acute care hospital settings.
Gibson ¹¹³ , 2010 English	Conceptual review Center on Aging, Department of Community Medicine, West Virginia University, Morgantown, West Virginia, U.S.A.	Service delivery	Principles of good care for long-term care facilities.
Chen ¹¹⁴ , 2010 English	Conceptual review Institute for Geriatric Clinic and Rehabilitation, Beijing Geriatric Hospital, China.	Service delivery	Aging Beijing: Challenges and strategies of health care for the elderly.
Campbell ¹¹⁵ , 2010 English	Comparative review University of Michigan in Ann Arbor.	Resources	Differences Between Long-Term Care (LTC) Systems, Germany and Japan, 2008
Boltz ¹¹⁶ , 2010 English	Mixed method (Concept mapping methodology) 306 (acute care clinicians, administrators, educators, researchers, and consumers) Muriel and Virginia Pless Center at the New York University College of Nursing for Nursing Research	Service delivery	To define the core components of a system-wide acute care program designed to meet the needs of older adults.
Augustine ¹¹⁷ , 2010 English	Dissertation Rajiv Gandhi university of health sciences, Karnataka, Bangalore, India.	Service delivery	Creating the senior friendly hospital.
Terrell ¹¹⁸ , 2009 English	Systematic reviews and expert panel Department of Emergency Medicine (KMT), the Indiana University Center for Aging Research (KMT, DKM)	Service delivery	Quality Indicators for Geriatric Emergency Care.
Chiou ¹¹⁹ , 2009 English	Conceptual review Institute of Public Health, National Yang-Ming University, Taiwan	Service delivery	Reviewed rationale for an age-friendly hospital (or health service) and propose our framework in detail by focusing on Taiwan's Framework of Age-Friendly Hospitals.
Boltz ¹²⁰ , 2008 English	Secondary analysis of data 896 registered nurses in the pre-NICHE implementation group (pre-NICHE) and 1028 nurses in the post NICHE implementation group (post-NICHE). 8 acute care hospitals in the United States	Resources	Overview of the NICHE (Nurses Improving Care for Health System Elders) tool kit: Guiding principles.
Tucker ¹²¹ , 2006 English	Interventional study OASIS (Older Adult Services Inpatient Strategies) Program/Pilot Piedmont Hospital, Atlanta, Georgia.	Service delivery	OASIS (Older Adult Services Inpatient Strategies) Program/ Pilot was created to address older medical patients scattered throughout the facility and to provide geriatric support to physicians Cognition, Mobility, Depression, Vision, Hearing, and Orthostatic.
Challis ¹²² , 2006	Cross sectional survey	Service delivery	Specialist services linked to care management.

English	130 English local authority social services departments to the 11 Trusts providing community-based Community Care Research, PSSRU, University of Manchester, Manchester, UK		
Teo ¹²³ , 2004 English	Conceptual review Department of Geography, National University of Singapore	Service delivery	Health Care for Older Persons in Singapore.
Parke ¹²⁴ , 2004 English	Conceptual review Older Adult Health, Chilliwack Health Services, Chilliwack, BC. Canada	Service delivery	An Elder-Friendly Hospital: translating a dream into reality.
World Health Organization ¹²⁵ , 2004 English	Report World Health Organization	Service delivery/ Resources,	The principles address each of the areas below: Attitudes, Training and education, Gender issues, Language, Obstructive management systems, Cost, waiting time, Appointment times that are too short for complete assessment and treatment, Lack of continuity and fragmentation of service, Special clinic or consultation hours for older persons, The physical environment.
Montero-Odasso ¹²⁶ , 2004 English	Conceptual review Internal Medicine Department and Geriatric Section, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina	Resources/ Service delivery	Health Care for Older Persons in Argentina: A Country Profile.
Gallo ¹²⁷ , 2004 English	Semi experimental study 127 clinicians experienced integrated or enhanced referral care Department of Family Practice and Community Medicine, University of Pennsylvania, Philadelphia, Pa	Service delivery	Primary Care Clinicians Evaluate Integrated and Referral Models of Behavioral Health Care for Older Adults.
Crome ¹²⁸ , 2004 English	Conceptual review Keele University Medical School, Stoke-on-Trent, Staffordshire, UK	Service delivery	Standards of the National Service Framework for Older People, key principles and illustrative milestones.
Parks ¹²⁹ , 2002 English	Conceptual review Department of Family Medicine Jefferson Medical College Philadelphia, USA	Service delivery	Preventive health care for older patients.
Kodner ¹³⁰ , 2002 English	Conceptual review New York University, Wagner Graduate School of Public Service, New York City, New York, USA	Service delivery	The quest for integrated systems of care for frail older persons.
Coleman ¹³¹ , 2002 English	Conceptual review Divisions of Geriatrics and Health Care Policy and Research, University of Colorado Health Sciences Center, Denver, Colorado, USA	Service delivery	The quest for integration in the United States, highlighting recent developments: the specific elements that comprise the continuum of health care services and are particularly relevant to meeting the needs of frail older adults.

Howe ¹³² ,	Conceptual review	Resource	Rearranging the compartments: the financing and delivery
2000	Australian Association of Gerontology		of care for Australia's elderly.
English			
Hong ¹³³ ,	Conceptual review	Resource	The Savings Approach to Financing Long-Term Care in
2001	Department of Community, Occupational, and Family		Singapore.
English	Medicine, National University of Singapore		
Godfrey ¹³⁴ ,	Conceptual review	Outcome and	Prevention: Developing a framework for conceptualizing
2001	Nuffield Institute for Health, The University of Leeds, UK	goal	and evaluating outcomes of preventive services for older
English			people.
Parke ¹³⁵ ,	Conceptual review	Service delivery	Strategies to Achieve an Elder-Friendly Hospital.
1999	Capital Health Region in Victoria British Columbia		
English			
Eng ¹³⁶ ,	Interventional study	Resources	Program of All-inclusive Care for the Elderly (PACE): an
1997	On Lok in San Francisco, California, USA		innovative model of integrated geriatric care and
English			financing.
Kobayashi ¹³⁷ ,	Conceptual review	Resources	Health care expenditures for the elderly and reforms in
1994	Department of Public Health, Teikyo University School of		the health care system in Japan.
English	Medicine, Kayo, Itabashi-ku, Tokyo Japan		
Kassner ¹³⁸ ,	Conceptual review	Resources	The Older Americans Act (OAA): Should Participants
1992	American Association of Retired Persons		Share in the Cost of Services?
English			
Berg ¹³⁹ ,	Conceptual review	Service delivery	Examining models for coordinating health-care to the
1981	Department of Political Science. Fordham University, U.S.		elderly.
English	A		
Chiou, Shu-Ti ¹⁴⁰ ,	Conceptual review	Service delivery	Taiwan's Framework of Age-friendly Hospitals and
2010	(The full article is published in: Archives of Gerontology		Health Services.
English	and Geriatrics 49 Suppl. 2 (2009)Bureau of Health		
	Promotion, Department of Health, Taiwan		

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