

Appendix 1 List of search strategies

Database: PubMed/MEDLINE (Legacy version)

- ❖ Ran on: 5/28/2020
- ❖ Number of results: 905
- ❖ Limits/Filters used:
 - ◆ Humans, English, Last 10 years
 - ◆ Publication types: Clinical Study, Clinical Trial, Clinical Trial Protocol, Comparative Study, Consensus Development Conference, Controlled Clinical Trial, Evaluation Study, Guideline, Introductory Journal Article, Meta-Analysis, Multicenter Study, Observational Study, Practice Guideline, Pragmatic Clinical Trial, Randomized Controlled Trial, Review, Scientific Integrity Review, Systematic Reviews, Technical Report, Twin Study, Validation Study
- ❖ Search strategy used:
 - ◆ ("Lung Neoplasms"[Mesh]) OR ((bronchi OR Pulmonary OR "pulmonary Alveoli" OR Lung) AND ("Carcinoma"[Mesh] OR "Sarcoma"[Mesh] OR "adenocarcinoma"[MeSH] OR adenocarcinoma OR cancer OR tumor OR tumour OR oncology OR Oncologic OR Oncological OR Malignancies OR Malignancy OR Neoplasm OR Neoplasms OR carcinoma OR sarcoma OR chemotherapy OR chemotherapeutic OR cancer[sb]))
 - ◆ AND
 - ◆ (families OR family OR parent* OR partner* OR spouse* OR family OR carer* OR caregiver* OR "Sexual Partners"[Mesh] OR "Parents"[Mesh] OR "Spouses"[Mesh] OR "Family"[Mesh] OR "Caregivers"[Mesh])
 - ◆ AND
 - ◆ (age OR gender OR education OR educat* OR ethnic OR ethnic* OR race OR race* OR culture OR language OR language* OR occupation OR social class OR socioeconomic OR health social determinants OR social determinant* OR social capital OR residence OR geograph* OR equity OR disparit* OR sociology OR social OR network OR prejudice OR insurance OR health gradient OR health gap OR vulnerable OR urban OR rural OR poverty OR wealth OR rich OR poor OR discriminat* OR demograph* OR spirituality OR faith OR religion OR stress OR economic stability OR housing OR neighborhood OR built environment OR social context OR community context OR income OR "Social Determinants of Health"[Mesh] OR "Socioeconomic Factors"[Mesh] OR "Stress, Psychological"[Mesh] OR "Gender Identity"[Mesh] OR "Sex"[Mesh] OR "Education"[Mesh] OR "Educational Status"[Mesh] OR "Economic Status"[Mesh] OR "Ethnic Groups"[Mesh] OR "Race Factors"[Mesh] OR "Continental Population Groups"[Mesh] OR "Culture"[Mesh] OR "Language"[Mesh] OR "Occupations"[Mesh] OR "Religion"[Mesh] OR "Social Class"[Mesh] OR "Social Capital"[Mesh] OR "Residence Characteristics"[Mesh] OR "Geography"[Mesh] OR "Health Equity"[Mesh] OR "Healthcare Disparities"[Mesh] OR "Sociology"[Mesh] OR "Prejudice"[Mesh] OR "Insurance"[Mesh] OR "Vulnerable Populations"[Mesh] OR "Urban Population"[Mesh] OR "Rural Population"[Mesh] OR "Poverty"[Mesh] OR "Poverty Areas"[Mesh] OR "Social Discrimination"[Mesh] OR "Demography"[Mesh] OR "Spirituality"[Mesh] OR "Housing"[Mesh] OR "Income"[Mesh])
 - ◆ NOT child

Database: Cochrane Library via <https://www.cochranelibrary.com/>

- ❖ Ran on: 5/29/2020
- ❖ Limits/Filters used: January 2010-December 2020
- ❖ Search strategy used: See attached PDF file with the search strategy details
- ❖ Number of results: 787

Database: Cumulative Index to Nursing and Allied Health Literature (CINAHL) Plus with Full Text via EBSCOhost

- ❖ Ran on: 5/29/2020
- ❖ Limits/Filters used:

- ◆ Date range: January 1, 2010-December 31, 2020
- ◆ Peer reviewed
- ◆ Human
- ◆ English language
- ◆ Subject: All adult
- ❖ Search strategy used: See attached PDF file with the search strategy details
- ❖ Number of results: 665

Database: APA PsycInfo via the Ovid platform

- ❖ Ran on: 5/29/2020
- ❖ Limits/Filters used:
 - ◆ Human
 - ◆ English language
 - ◆ Year range: 2010 -2021
- ❖ Search strategy used: See attached PDF file with the search strategy details
- ❖ Number of results: 39

Appendix 2

Social determinants of health screening tools and resources

Tool	Description	SDH Domain Assessment	Reference
Protocol for Responding to and Assessing Patients' Assets, Risks, and Experiences (PRAPARE)	21-item survey validated using the 8 "Gold Standard" stages of measure development. Available in English, Spanish, Chinese and 24 other languages	All SDH domains [†]	National Association of Community Health Centers. (2016). Retrieved from http://www.nachc.org/research-and-data/prapare
Epic version of PRAPARE Or PRAPARE-plus	13-item survey validated at three community health centers that includes adapted questions from PRAPARE, Institute of Medicine, and other validated SDH sources. Available in English and Spanish	All SDH domains [†]	Gold R, <i>et al.</i> (2017). Developing Electronic Health Record (EHR) Strategies Related to Health Center Patients' Social Determinants of Health. <i>J Am Board Fam Med.</i> 2017 Jul-Aug;30(4):428-447. doi: 10.3122/jabfm.2017.04.170046. PMID: 28720625
Health Begins Upstream Risks Screening Tool	15-item survey adapted from Institute of Medicine and the National Academies Press	All SDH domains [†]	Rishi & Gottlieb (2015). Upstream risks screening tool and guide. Retrieved from https://www.aamc.org/media/25736/download
Accountable Health Communities Health-related Social Needs Screening Tool	10-item survey used to identify unmet needs across five core domains developed using literature review and technical expert panel	All SDH domains [†]	Billioux, A., Verlander, K., Anthony, S., & Alley, D. (2017). Standardized screening for health-related social needs in clinical settings: the accountable health communities screening tool. <i>NAM Perspectives.</i>
WellRx	11-item survey validated in 3048 patients in 3 family medicine clinics in New Mexico	All SDH domains [†]	Page-Reeves J., <i>et al.</i> (2016). <i>Journal of the American Board of Family Medicine</i> , 29(3), 414–418. 10.3122/jabfm.2016.03.150272
Social Determinants of Health by US Census Tract	47-variables including race/ethnicity, education, socioeconomic status, racial residential segregation poverty level with 73,056 records using 2010 census tract and the American Community Survey data	All SDH domains [†] except Health Care Access and Quality	National Cancer Institute. (2021). Social determinants of health by US census tract. Retrieved from https://healthcaredelivery.cancer.gov/social-determinants/
Patient-Reported Outcomes Measurement Information System (PROMIS)	Over 300 measures of health outcomes including physical, mental, and social well-being for adult and pediatric populations. Available in multiple languages including English, Spanish, French, Xhosa, Bengali, Czech	Health Care Access and Quality, Social and Community Context	Ader DN. Developing the patient-reported outcomes measurement information system (PROMIS). <i>Medical care.</i> 2007 May 1;45(5):S1-2. doi: 10.1097/01.mlr.0000260537.45076.74

[†]SDH framework includes five broad domains: economic stability, education access and quality, neighborhood and built environment, healthcare access and quality, and social and community context.

Appendix 3

Economic Stability Domain Studies on Lung Cancer Patients and Family Caregivers (FCGs)

Primary author & year	Study design	Location	Population	Sample size	Evidence level & quality
Barbaree 2019 (1)	Cross sectional	Other: Europe & North America	Patients	74	IIIB
Adorno 2017 [†] (2)	Cross Sectional	North America	Patients	30	IIB
Dalton 2015 [§] (3)	Cohort	Europe	Patients	13045	IIIB
Hovanec 2018 [†] (4)	Other: Case Control	Other: Europe and North America	Patients	17021	IIA
Behrens 2016 [†] (5)	Cohort	Europe	Patients	25580	IIIB
Cai 2011 [†] (6)	Cross Sectional	Asia	Patients	108	IIIB
Nicolau 2019 (7)	Other: Case Control	North America	Patients	761	IIIA
Bensenor 2012 [†] (8)	Cross Sectional	South America	Patients	14566	IIA
Zhou 2017 [†] (9)	Other: Administrative Data	Asia	Patients	34678	IIIA
Shilling 2017 [†] (10)	Qualitative	Europe	Both	6 dyads	IIIA
Forrest 2015 [†] (11)	Cohort	Europe	Patients	22967	IIIA
Lee 2018 [†] (12)	Cross Sectional	Asia	Both	150 dyads	IIA

Secondary domain assignments: [†]Health care access and quality; ^{*}Social and community context; [§]Education access and quality.

Education Access and Quality & Neighborhood and Built Environment Domain Studies on Lung Cancer Patients

Primary author & year	Study design	Location	Population	Sample size	Evidence level & quality
Education Access and Quality Domain Studies					
Verma 2018 [§] (13)	Qualitative	Australia	Patients	252	IIIB
Billmeier 2013 (14)	Cohort	North America	Patients	1007	IIIA
Nipp 2018 [†] (15)	Cross Sectional	North America	Patients	234	IIA
Neighborhood and Built Environment Domain Studies					
Consonni 2015 (16)	Cohort	Europe	Patients	599	IIIB
Nakano 2019 (17)	Cross Sectional	Asia	Patients	4	IIIC
Brenner 2010 [†] (18)	Cross Sectional	North America	Patients	445	IIIB
Petitte 2014 (19)	Non-Randomized Control Trial	North America	Patients	10	IIIC
Torres-Durán 2014 (20)	Other: Case control	Europe	Patients	192	IIB
Rodríguez-Martínez 2017 (21)	Other: Case Control	Europe	Patients	113	IIIA
Torres-Durán 2016 [#] (22)	Other: Case Series	Europe	Patients	19	IIIB
Wang 2016 (23)	Cohort	North America	Patients	2148	IIA
Goodridge 2010 [#] (24)	Cohort	North America	Patients	483	IIIA
Torres-Durán 2015 [†] (25)	Other: Case Control	Europe	Patients	216	IIIB
Sawicki 2013 [†] (26)	Cross Sectional	Europe	Patients	300	IIA
Bracci 2012 [†] (27)	Other: Case-Control	North America	Patients	338	IIB

Secondary domain assignments: [†]Health care access and quality; ^{*}Social and community context; [#]Economic stability; [§]Neighborhood and built environment.

Health Care Access and Quality Domain Studies on Lung Cancer Patients and Family Caregivers (FCGs)

Primary author & year	Study design	Location	Population	Sample size	Evidence level & quality
Lee 2016 ^ˆ (28)	Cohort	North America	Both	13 dyads	IIIB
Sun 2017 (29)	Other: Quasi-Experimental	North America	Both	38 Patients; 22 FCGs	IIB
Bakitas 2017 ^ˆ (30)	Qualitative	North America	Both	24 Patients; 20 FCGs	IIIB
Gustafson 2013 (31)	Randomized Controlled Trial	North America	Both	285 dyads	IA
Brady 2018 (32)	Cross Sectional	North America	Patients	72	IIB
Husain 2013 (33)	Cross Sectional	North America	Patients	116	IIA
Lee 2018 (34)	Cross Sectional	Other: Europe, Australia, Asia, South America	Patients	1,140	IIIB
Lynch 2010 (35)	Other: Clinical Audit	Europe	Patients	34	IIIB
Roulston 2013 (36)	Qualitative	Europe	Patients	52	IIIB
Wright 2016 ^ˆ (37)	Cross Sectional	North America	Both	886 dyads	IIA
Bailey 2016 (38)	Qualitative	Europe	Both	24 Patients; 20 FCGs	IIIB
Ermers 2019 (39)	Cohort	Europe	Patients	95	IIB
Jarosek 2016 [#] (40)	Cohort	North America	Patients	22,558	IIIA
Falchook 2017 (41)	Cross Sectional	North America	Patients	12,764	IIA
Hanratty 2012 [#] (42)	Qualitative	Europe	Patients	13	IIIB
Ellis 2012 (43)	Qualitative	Europe	Both	37 Patients; 23 FCGs	IIIB
Schook 2014 ^ˆ (44)	Qualitative	Europe	Both	5 Patients; 20 FCGs	IIIB
Sikjær 2018 (45)	Cohort	Europe	Patients	20,787	IIA
Rose 2017 (46)	Cohort	Europe	Patients	20	IIB
Baumgardner 2018 (47)	Cohort	North America	Patients	14,380	IIA
Aubin 2011 ^ˆ (48)	Cohort	North America	Patients	395	IIIB
Goulart 2013 (49)	Cohort	North America	Patients	28,977	IIIA
Lee 2019 (50)	Cross Sectional	Asia	Patients	118	IIIB
Eichler 2019 ^ˆ (51)	Cross Sectional	Europe	Patients	604	IIIB
Shen 2016 ^ˆ (52)	Cross Sectional	North America	Patients	231	IIIA
Bülbül 2017 ^ˆ (53)	Cross Sectional	Other: Turkey	Patients	1,202	IIIB
Ellis 2017 (54)	Randomized Controlled Trial	North America	Both	70 dyads	IIIC
Billmeier 2011 (55)	Cohort	North America	Patients	679	IIB
Shi 2015 ^ˆ (56)	Cross Sectional	Asia	Patients	104	IIA
Fukumoto 2015 (57)	Other: Case-Control	Asia	Patients	625	IIA
Nababan 2020 (58)	Qualitative	Australia	Patients	47	IIIA
Parsonage 2017 (59)	Qualitative	Europe	Patients	121	IIIB
Stegmann 2019 (60)	Qualitative	Europe	Patients	20	IIIB
Jacobsen 2011 ^ˆ (61)	Randomized Controlled Trial	North America	Patients	67	IA
Pirl 2012 (62)	Randomized Controlled Trial	North America	Patients	151	IC
Temel 2017 ^ˆ (63)	Randomized Controlled Trial	North America	Patients	191	IA

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Primary author & year	Study design	Location	Population	Sample size	Evidence level & quality
Walton 2013 (64)	Qualitative	Other: New Zealand	Patients	20	IIIB
Burt 2010* (65)	Cross Sectional	Europe	Both	252 Patients; 135 FCGs	IIIB
Xiu 2020 (66)	Randomized Controlled Trial	Asia	FCGs	157	IC
Yennurajalingam 2018 (67)	Cross Sectional	North America	Patients	468	IIIB
Ellis 2017 (68)	Qualitative	Europe	Both	11 Patients; 3 FCGs	IIIC
Ledderer 2014 (69)	Qualitative	Europe	Both	5 dyads	IIIC
Owens 2020 (70)	Qualitative	North America	Both	6 dyads	IIIC
Bigay-Gamé 2018 (71)	Cohort	Europe	Patients	146	IIA
Banik 2017 (72)	Other: Longitudinal	Europe	Patients	102	IIB
Hanratty 2012* (73)	Qualitative	Europe	Patients	14	IIIB
Patel 2016 [§] (74)	Cohort	North America	Patients	1,044	IIA
Park 2012* (75)	Cohort	North America	Patients	2,456	IIIA
Wiljer 2012 (76)	Cross Sectional	North America	Patients	95	IIIB
George 2010 (77)	Qualitative	North America	Patients	10	IIIB

Secondary domain assignments: *Social and community context; #Economic stability; [§]Education access and quality.

Social and Community Context Domain Studies on Lung Cancer Patients and Family Caregivers (FCGs)

Primary author & year	Study design	Location	Population	Sample size	Evidence level & quality
Manne 2012 (78)	Cohort	Australia	Both	77 dyads	IIIB
Milbury 2012 (79)	Cohort	North America	Both	169 patients; 167 FCGs	IIIB
Hobbs 2015 [†] (80)	Cohort	North America	Both	2932 dyads	IIIA
Milbury 2013 [#] (81)	Cohort	North America	Both	158 dyads	IIIB
Ersek 2017 (82)	Cohort	North America	Both	847 dyads	IIIB
Loh 2019 [†] (83)	Cohort	North America	Both	88 dyads	IIIB
Lee 2019 (84)	Cohort	North America	Both	113 dyads	IIIB
Litzelman 2016 (85)	Cohort	North America	Both	689 dyads	IIIA
Douglas 2013 (86)	Cohort	North America	Both	65 dyads	IIIB
Garlo 2010 (87)	Cohort	North America	Both	179 dyads	IIIB
DuBenske 2010 (88)	Cohort	North America	Both	72 dyads	IIIB
Buchanan 2010 (89)	Cohort	Europe	Patients	170	IIB
Lau 2018 (90)	Cohort	North America	Patients	1366	IIIB
Jacobs 2017 (91)	Cohort	North America	Both	191 dyads	IIIB
Lyons 2016 (92)	Cohort	North America	Patients	78	IIB
Oh 2019 (93)	Cross Sectional	Asia	Both	150 dyads	IIA
Cooley 2013 (94)	Cross Sectional	North America	Both	37 dyads	IIB

(continued)

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Primary author & year	Study design	Location	Population	Sample size	Evidence level & quality
Zhang 2010 [†] (95)	Cross Sectional	North America	Both	184 Patients; 171 FCGs	IIA
Leydon 2012 (96)	Cross Sectional	Other: Africa, Europe, Asia	Both	113 Patients; 70 FCGs	IIIB
Madani 2018 (97)	Cross Sectional	Asia	Patients	25	IIIB
Hung 2018 [§] (98)	Cross Sectional	Asia	Patients	159	IIA
Dogan 2019 (99)	Cross Sectional	Europe	Patients	55	IIIB
Akin 2010 [†] (100)	Cross Sectional	Other: Asia and Europe	Patients	154	IIB
Nipp 2016 (101)	Cross Sectional	North America	Both	149 dyads	IIA
Kramer 2010 [†] (102)	Cross Sectional	North America	Both	155 dyads	IIB
Ostlund 2010 (103)	Cross Sectional	Europe	FCGs	84	IIIB
Malik 2013 (104)	Cross Sectional	Europe	FCGs	50	IIIB
Chen 2016 [†] (105)	Cross Sectional	Asia	Both	166 dyads	IIIB
Hu 2018 (106)	Cross Sectional	Asia	Both	116 dyads	IIIB
Lobchuk 2012 (107)	Cross Sectional	North America	Both	304 dyads	IIIA
Miller 2017 (108)	Cross Sectional	North America	Both	109 dyads	IIB
Porter 2012 (109)	Cross Sectional	North America	Both	127 dyads	IIIA
Wood 2019 (110)	Cross Sectional	Europe	FCGs	427	IIA
Lee 2013 [†] (111)	Cross Sectional	Asia	Both	106 dyads	IIA
Martin 2014 [#] (112)	Cross Sectional	North America	Patients	1773	IIIA
Chang 2015 [§] (113)	Cross Sectional	Asia	Patients	231	IIIB
Hechtner 2019 [†] (114)	Cross Sectional	Europe	Patients	555	IIIA
Skalla 2015 (115)	Cross Sectional	North America	Patients	15	IIIC
Cykert 2019 (116)	Other: Non-Randomized Control Trial	North America	Patients	3201	IIA
Borneman 2015 (117)	Other: Non-Randomized Control Trial	North America	Both	272 Patients; 203 FCs	IIA
Nguyen 2017 (118)	Other: Non-Randomized Control Trial	North America	Both	170 Patients; 156 FCGs	IIA
Li 2019 [†] (119)	Other: Non-Randomized Control Trial	Asia	Both	67 dyads	IIB
Milbury 2015 (120)	Other: Non-Randomized Control Trial	North America	Both	15 dyads	IIB
Milbury 2018 (121)	Other: Non-Randomized Control Trial	North America	Both	7 dyads	IIC
Sun 2016 (122)	Other: Quasi-Experimental	North America	Both	475 Patients; 354 FCGs	IIB
Lindau 2011 (123)	Qualitative	North America	Both	13 dyads	IIIA

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Primary author & year	Study design	Location	Population	Sample size	Evidence level & quality
Lowson 2013 [†] (124)	Qualitative	Europe	Patients	14	IIIC
Ngwenya 2016 (125)	Qualitative	Europe	Both	20 Patients; 17 FCGs	IIIB
Occhipinti 2018 (126)	Qualitative	Australia	Both	16 Patients; 12 FCGs	IIIB
Ewing 2016 (127)	Qualitative	Europe	Both	20 Patients; 17 FCGs	IIIB
Sihombing 2019 (128)	Qualitative	Asia	FCGs	9	IIIB
Steinval 2011 (129)	Qualitative	Europe	FCGs	11	IIIB
Bottorff 2015 (130)	Qualitative	North America	FCGs	30	IIIB
Pardon 2012 (131)	Qualitative	Europe	Patients	85	IIIB
Pardon 2010 (132)	Qualitative	Europe	Patients	126	IIIA
Feliciano 2018 (133)	Qualitative	North America	Patients	17	IIIB
Pusa 2012 (134)	Qualitative	Europe	FCGs	11	IIIA
Ólafsdóttir 2018 [†] (135)	Qualitative	Europe	Both	7 Patients; 5 FCGs	IIIB
Hendriksen 2015 (136)	Qualitative	North America	Both	10 Patients; 5 FCGs	IIIB
Sjolander 2012 (137)	Qualitative	Europe	FCGs	17	IIIC
Villalobos 2018 (138)	Qualitative	Europe	Both	9 dyads	IIIB
McDonnell 2020 (139)	Qualitative	North America	Both	26 dyads	IIIC
McDonnell 2019 (140)	Qualitative	North America	Both	26 dyads	IIIB
Granger 2019 [†] (141)	Qualitative	Australia	Patients	7	IIIA
Kyte 2019 [§] (142)	Qualitative	Europe	Patients	14	IIIB
Wittenberg 2018 (143)	Pilot	North American	FCGs	20	IIIB
Chih 2013 [†] (144)	RCT	North America	FCGs	118	IA
DuBenske 2014 (145)	RCT	North America	FCGs	285	IA
Shaffer 2017 ^{&} (146)	RCT	North America	FCGs	275	IA
Namkoong 2012 [†] (147)	RCT	North America	FCGs	246	IB
Bastian 2013 [†] (148)	RCT	North America	FCGs	496	IA
Mosher 2019 (149)	RCT	North America	Both	50 dyads	IC
Schellekens 2017 (150)	RCT	Europe	Both	63 Patients; 44 FCGs	IB
Northouse 2013 (151)	RCT	North America	Both	141 dyads	IA
Porter 2011 (152)	RCT	North America	Both	233 dyads	IA
Winger 2018 [†] (153)	RCT	North America	Both	51 dyads	IC
Chen 2017 (154)	RCT	Asia	Both	132 dyads	IA

Secondary domain assignments: [†]Health care access and quality; [#]Economic stability; [§]Neighborhood and built environment; [&]Education access and quality.

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