Supplementary Online Content

Singh K, Bawa VS, Venkateshmurthy NS, et al. Assessment of studies of quality improvement strategies to enhance outcomes in patients with cardiovascular disease. *JAMA Netw Open*. 2021;4(6):e2113375. doi:10.1001/jamanetworkopen.2021.13375

This supplementary material has been provided by the authors to give readers additional information about their work.

eMethods. Literature Search Strategy

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R) 1946 to October 24, 2019

Search Strategy:

#	Searches	Results
1	exp Cardiovascular Diseases/	2314179
2	exp Stroke/	126594
3	(acute coronary syndrome or angina pectoris or asystole* or cardiac arrest* or cardiac infarct* or cardiovascular disease* or cardiovascular outcome* or cardiovascular event* or cardiovascular risk* or cardiovascular stroke or cardiopulmonary arrest* or coronary artery disease* or coronary artery obstruction* or coronary artery thrombos* or coronary occlusion or coronary heart disease* or heart arrest* or heart attack* or heart failure or heart infarct* or high blood pressure or hypertension or ischaemic heart disease* or ischemic heart disease* or myocardial infarct* or myocardial failure or myocardium infarct* or myocardium failure or percutaneous coronary intervention* or peripheral arterial disease or stenocardia* or stroke* or subclinical atherosclerosis or subclinical cardiovascular).ti,ab.	1152578
4	or/1-3	2674261
5	exp Patient Discharge/	27998
6	exp Home Care Services/	46279
7	exp Outpatient Clinics, Hospital/	16883
8	exp Outpatients/	15098
9	(patient discharge* or post hospitalization or post hospitalisation or home care or homecare or outpatient* or "out patient").ti,ab.	188653
10	or/5-9	260519
11	"health care quality, access, and evaluation"/	0
12	exp quality assurance, health care/	318636
13	"quality of health care"/	70775
14	*clinical competence/	44216
15	"outcome and process assessment (health care)"/	26242
16	"outcome assessment (health care)"/	69700
17	"process assessment (health care)"/	4508
18	peer review, health care/	1420
19	exp program evaluation/	73203
20	quality improvement/	21918
21	quality indicators, health care/	14998
22	*Patient Satisfaction/	28392
23	Management Quality Circles/	1229
24	Employee Performance Appraisal/	4585
25	exp Reminder Systems/	3304
26	*Checklist/	2492
27	*Patient Education as Topic/	38151
28	*health education/	34757
29	exp Inservice Training/	28480
30	management audit/	2500
31	(checklist* or check list* or quality circle* or quality management or patient satisfaction or patient education or change management or continuing education or reminder system* or process assess*).ti,ab.	107741
32	(quality adj3 (indicat* or improv* or assurance* or assess* or evaluat* or feedback)).ti,ab.	259905
33	(practice* adj3 complian*).ti,ab.	1312
34	(guideline* adj3 (adherence or complian*)).ti,ab.	9071
35	(HCP adj3 (attitude* or documentation* or knowledge or satisfaction)).ti,ab.	110
36	(audit adj3 feedback).ti,ab.	1262
37	(benchmark* adj3 (assess* or performance or analysis or quality or evalulat*)).ti,ab.	3432
38	(train* adj (inservice or "in service" or staff)).ti,ab.	2166
39	or/11-38	956967
40	(randomized controlled trial or clinical trial).pt.	797133
41	trial.ti.	206914
42	(randomized or randomised or randomly or groups or "interrupted time series" or "before and after intervention study" or "before and after intervention studies" or controlled).ti,ab.	2917987

43	exp animals/ not humans.sh.	4636899
44	(40 or 41 or 42) not 43	2815401
45	4 and 10 and 39 and 44	1502
46	limit 45 to yr="2009 -Current"	841

Cochrane Library

ID Search Hits
#1 MeSH descriptor: [Cardiovascular Diseases] explode all trees 98574
#2 MeSH descriptor: [Stroke] explode all trees 8542
#3 (acute coronary syndrome or angina pectoris or asystole* or cardiac arrest* or cardiac infarct* or cardiovascular disease* or cardiovascular outcome* or cardiovascular event* or cardiovascular risk* or cardiovascular stroke or cardiopulmonary arrest* or coronary artery disease* or coronary artery obstruction* or coronary artery thrombos* or coronary occlusion or coronary heart disease* or heart arrest* or heart attack* or heart failure or heart infarct* or high blood pressure or hypertension or ischaemic heart disease* or ischemic heart disease* or myocardial infarct* or myocardial failure or myocardium infarct* or myocardium failure or percutaneous coronary intervention* or peripheral arterial disease or stenocardia* or stroke* or subclinical atherosclerosis or subclinical cardiovascular):ti,ab 186262
#4 #1 or #2 or #3 224286
#5 MeSH descriptor: [Patient Discharge] explode all trees 1385
#6 MeSH descriptor: [Home Care Services] explode all trees 2323
#7 MeSH descriptor: [Outpatient Clinics, Hospital] explode all trees 649
#8 MeSH descriptor: [Outpatients] explode all trees 1161
#9 (patient discharge* or post hospitalization or post hospitalisation or home care or homecare or outpatient* or "out patient"):ti,ab,kw 72616
#10 #5 OR #6 OR #7 OR #8 OR #9 72806
#11 MeSH descriptor: [Health Care Quality, Access, and Evaluation] this term only 0
#12 MeSH descriptor: [Quality Assurance, Health Care] explode all trees 3155
#13 MeSH descriptor: [Quality of Health Care] this term only 832
#14 MeSH descriptor: [Clinical Competence] this term only 3096
#15 MeSH descriptor: [Outcome and Process Assessment (Health Care)] this term only 2055
#16 MeSH descriptor: [Outcome Assessment (Health Care)] this term only 6920
#17 MeSH descriptor: [Process Assessment (Health Care)] this term only 206
#18 MeSH descriptor: [Peer Review, Health Care] this term only 34
#19 MeSH descriptor: [Program Evaluation] explode all trees 5895
#20 MeSH descriptor: [Quality Improvement] this term only 611
#21 MeSH descriptor: [Quality Indicators, Health Care] this term only 211
#22 MeSH descriptor: [Patient Satisfaction] this term only 10989
#23 MeSH descriptor: [Management Quality Circles] this term only 19
#24 MeSH descriptor: [Employee Performance Appraisal] this term only 40
#25 MeSH descriptor: [Reminder Systems] explode all trees 864
#26 MeSH descriptor: [Checklist] this term only 248
#27 MeSH descriptor: [Patient Education as Topic] this term only 8374
#28 MeSH descriptor: [Health Education] this term only 3721
#29 MeSH descriptor: [Inservice Training] explode all trees 784

Embase Session Results

No.	Query	Results
#36	#35 AND [2009-2019]/py	2,727
#35	#33 NOT #34	3,676
#34	('animal'/exp OR 'nonhuman'/exp) NOT 'human'/exp	7,047,449
#33	#3 AND #9 AND #29 AND #32	3,685
#32	#30 OR #31	9,483,905
#31	'controlled clinical trial'/de OR 'controlled study'/de OR 'randomized controlled trial'/de	7,085,221
#30	randomized:ti,ab OR randomised:ti,ab OR randomly:ti,ab OR groups:ti,ab OR trial:ti OR 'interrupted time series':ti,ab OR 'before and after intervention study':ti,ab OR 'before and after intervention studies':ti,ab OR controlled:ti,ab	4,146,791
#29	#10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28	829,196
#28	(train* NEAR/1 (inservice OR 'in service' OR staff)):ti,ab	10,234
#27	(benchmark* NEAR/3 (assess* OR performance OR analysis OR quality OR evalulat*)):ti,ab	4,446
#26	(audit NEAR/3 feedback):ti,ab	1,873
#25	(hcp NEAR/3 (attitude* OR documentation* OR knowledge OR satisfaction)):ti,ab	231
		16,067

#24 (**guideline*** NEAR/3 (**adherence** OR **complian***)):ti,ab	**2,030**
#23 (**practice*** NEAR/3 **complian***):ti,ab	**373,388**
#22 (**quality** NEAR/3 (**indicat*** OR **improv*** OR **assurance*** OR **assess*** OR **evaluat*** OR **feedback**)):ti,ab	**153,292**
#21 **checklist***:ti,ab OR **'check list*'**:ti,ab OR **'quality circle*'**:ti,ab OR **'quality management'**:ti,ab OR **'patient satisfaction'**:ti,ab OR **'patient education'**:ti,ab OR **'change management'**:ti,ab OR **'continuing education'**:ti,ab OR **'reminder system*'**:ti,ab OR **'process assess*'**:ti,ab	**6,709**
#20 **'in service training'**/mj	**38,143**
#19 **'health education'**/mj	**28,637**
#18 **'patient education'**/mj	**3,562**
#17 **'checklist'**/mj	**1,095**
#16 **'reminder system'**/mj	**23,262**
#15 **'patient satisfaction'**/mj	**23,158**
#14 **'clinical competence'**/mj	**13,625**
#13 **'program evaluation'**/de	**4,112**
#12 **'performance measurement system'**/de	**1,824**
#11 **'quality control procedures'**/de	**235,524**
#10 **'health care quality'**/de	

518,653

#9

#**4** OR #**5** OR #**6** OR #**7** OR #**8**

303,629

#8

'patient discharge*':ab,ti OR **'post hospitalization'**:ab,ti OR **'post hospitalisation'**:ab,ti OR **'home care'**:ab,ti OR **homecare**:ab,ti OR **outpatient***:ab,ti OR **'out patient'**:ab,ti

119,073

#7

'outpatient'/exp

83,544

#6

'outpatient department'/exp

73,238

#5

'home care'/exp

115,915

#4

'hospital discharge'/exp

4,591,744

#3

#**1** OR #**2**

1,761,005

#2

'acute coronary syndrome':ab,ti OR **'angina pectorisasystole*'**:ab,ti OR **'cardiac arrest*'**:ab,ti OR **'cardiac infarct*'**:ab,ti OR **'cardiovascular disease*'**:ab,ti OR **'cardiovascular outcome*'**:ab,ti OR **'cardiovascular event*'**:ab,ti OR **'cardiovascular risk*'**:ab,ti OR **'cardiopulmonary arrest*'**:ab,ti OR **'coronary artery disease*'**:ab,ti OR **'coronary artery obstruction*'**:ab,ti OR **'coronary artery thrombos*'**:ab,ti OR **'coronary occlusion'**:ab,ti OR **'coronary heart disease*'**:ab,ti OR **'heart arrest*'**:ab,ti OR **'heart attack*'**:ab,ti OR **'heart failure'**:ab,ti OR **'heart infarct*'**:ab,ti OR **'high blood pressure'**:ab,ti OR **hypertension**:ab,ti OR **'ischaemic heart disease*'**:ab,ti OR **'ischemic heart disease*'**:ab,ti OR **'myocardial infarct*'**:ab,ti OR **'myocardial failure'**:ab,ti OR **'myocardium infarct*'**:ab,ti OR **'myocardium failure'**:ab,ti OR **'percutaneous coronary intervention*'**:ab,ti OR **'peripheral arterial disease'**:ab,ti OR **stenocardia***:ab,ti OR **stroke***:ab,ti OR **'subclinical atherosclerosis'**:ab,ti OR **'subclinical cardiovascular'**:ab,ti

4,401,003

#1

'cardiovascular disease'/exp

CINAHL Plus with Full Text

#	Query	Results
S29	S4 AND S9 AND S25 AND S28	1,526
S28	S26 OR S27	922,738
S27	TI trial	95,944
S26	randomized or randomised or randomly or groups or "interrupted time series" or "before and after intervention	904,986

	study" or "before and after intervention studies" or controlled	
S25	S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24	922,200
S24	train* N (inservice OR "in service" OR staff)	1
S23	benchmark* N3 (assess* OR performance OR analysis OR quality OR evalulat*)	1,309
S22	audit N3 feedback	834
S21	HCP N3 (attitude* OR documentation* OR knowledge OR satisfaction)	192
S20	guideline* N3 (adherence OR complian*)	16,813
S19	practice* N3 complian*	927
S18	quality N3 (indicat* OR improv* OR assurance* OR assess* OR evaluat* OR feedback)	165,627
S17	checklist* OR "check list*" OR "quality circle*" OR "quality management" OR "patient satisfaction" OR "patient education" OR "change management" OR "continuing education" OR "reminder system*" OR "process assess*"	183,997
S16	(MM "Staff Development")	10,743
S15	(MM "Health Education")	14,462
S14	(MM "Patient Education")	23,741
S13	(MM "Reminder Systems")	1,365
S12	(MM "Patient Compliance")	12,742
S11	(MH "Employee Performance Appraisal+")	7,099
S10	(MH "Quality of Health Care+")	690,963
S9	S5 OR S6 OR S7 OR S8	145,040
S8	patient discharge* or post hospitalization or post hospitalisation or home care or homecare or outpatient* or "out patient"	138,818
S7	(MH "Outpatients")	43,300
S6	(MH "Outpatient Service")	7,986
S5	(MH "Patient Discharge+")	27,701
S4	S1 OR S2 OR S3	621,803
S3	acute coronary syndrome or angina pectorisasystole* or cardiac arrest* or cardiac infarct* or cardiovascular disease* or cardiovascular outcome* or cardiovascular event* or cardiovascular risk* or cardiovascular stroke or cardiopulmonary arrest* or coronary artery disease* or coronary artery obstruction* or coronary artery thrombos* or coronary occlusion or coronary heart disease* or heart arrest* or heart attack* or heart failure or heart infarct* or high blood pressure or hypertension or ischaemic heart disease* or ischemic heart disease* or myocardial infarct* or myocardial failure or myocardium infarct* or myocardium failure or percutaneous coronary intervention* or peripheral arterial disease or stenocardia* or stroke* or subclinical atherosclerosis or subclinical cardiovascular	407,578
S2	(MH "Stroke+")	62,118
S1	(MH "Cardiovascular Diseases+")	518,707

PsycINFO (EBSCOhost)

#	Query	Results
S29	S4 AND S9 AND S25 AND S28	145
S28	S26 OR S27	1,143,596
S27	TI trial	36,651
S26	randomized or randomised or randomly or groups or "interrupted time series" or "before and after intervention study" or "before and after intervention studies" or controlled	1,135,652
S25	S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24	180,283
S24	train* N (inservice OR "in service" OR staff)	3,028
S23	benchmark* N3 (assess* OR performance OR analysis OR quality OR evalulat*)	1,086
S22	audit N3 feedback	174
S21	HCP N3 (attitude* OR documentation* OR knowledge OR satisfaction)	104
S20	guideline* N3 (adherence OR complian*)	3,191
S19	practice* N3 complian*	336
S18	quality N3 (indicat* OR improv* OR assurance* OR assess* OR evaluat* OR feedback)	58,459
S17	checklist* OR "check list*" OR "quality circle*" OR "quality management" OR "patient satisfaction" OR "patient education" OR "change management" OR "continuing education" OR "reminder system*" OR "process assess*"	115,300
S16	(MM "Staff Development")	1,139
S15	(MM "Health Education")	10,740
S14	(MM "Patient Education")	1,012
S13	(MM "Reminder Systems")	792
S12	(MM "Patient Compliance")	755
S11	(MH "Employee Performance Appraisal+")	147
S10	(MH "Quality of Health Care+")	976
S9	S5 OR S6 OR S7 OR S8	89,689
S8	patient discharge* or post hospitalization or post hospitalisation or home care or homecare or outpatient* or "out patient"	89,689
S7	(MH "Outpatients")	1
S6	(MH "Outpatient Service")	320
S5	(MH "Patient Discharge+")	245
S4	S1 OR S2 OR S3	82,696
S3	acute coronary syndrome or angina pectorisasystole* or cardiac arrest* or cardiac infarct* or cardiovascular disease* or cardiovascular outcome* or cardiovascular event* or cardiovascular risk* or cardiovascular stroke or cardiopulmonary arrest* or coronary artery disease* or coronary artery obstruction* or coronary artery thrombos* or coronary occlusion or coronary heart disease* or heart arrest* or heart attack* or heart failure or heart infarct* or high blood pressure or hypertension or ischaemic heart disease* or ischemic heart disease* or myocardial infarct* or myocardial failure or myocardium infarct* or myocardium failure or percutaneous coronary intervention* or peripheral arterial disease or stenocardia* or stroke* or subclinical atherosclerosis or subclinical cardiovascular	82,696

S2	(MH "Stroke+")	11
S1	(MH "Cardiovascular Diseases+")	67

ProQuest Dissertations & Theses Global

Select all	Set	Search	Results
Select item 10	S10	S1 AND S2 AND S3 AND S4Limits applied Databases: ProQuest Dissertations & Theses Global Narrowed by: Entered date: 2009 - 2019-10-31	72
Select item 9	S9	S1 AND S2 AND S3 AND S4 Databases: ProQuest Dissertations & Theses Global	129
Select item 8	S4	noft(patient discharge* or post hospitalization or post hospitalisation or home care or homecare or outpatient* or "out patient") Databases: ProQuest Dissertations & Theses Global	26,230
Select item 7	S3	noft(train* NEAR/1 (inservice OR "in service" OR staff)) OR noft(benchmark* NEAR/3 (assess* OR performance OR analysis OR quality OR evalulat*)) OR noft(audit NEAR/3 feedback) OR noft(HCP NEAR/3 (attitude* OR documentation* OR knowledge OR satisfaction)) OR noft(guideline* NEAR/3 (adherence OR complian*)) OR noft(practice* NEAR/3 complian*) OR noft(quality NEAR/3 (indicat* OR improv* OR assurance* OR assess* OR evaluat* OR feedback)) OR noft(checklist* OR "check list*" OR "quality circle*" OR "quality management" OR "patient satisfaction" OR "patient education" OR "change management" OR "continuing education" OR "reminder system*" OR "process assess*") Databases: ProQuest Dissertations & Theses Global	110,089
Select item 2	S2	noft(randomized or randomised or randomly or groups or "interrupted time series" or "before and after intervention study" or "before and after intervention stud*" or controlled) OR ti(trial) Databases: ProQuest Dissertations & Theses Global	744,339
Select item 1	S1	noft(acute coronary syndrome OR angina pectorisasystole* OR cardiac arrest* OR cardiac infarct* OR cardiovascular disease* OR cardiovascular outcome* OR cardiovascular event* OR cardiovascular risk* OR cardiovascular stroke OR cardiopulmonary arrest* OR coronary artery disease* OR coronary artery obstruction* OR coronary artery thrombos* OR coronary occlusion OR coronary heart disease* OR heart arrest* OR	2,004

		heart attack* OR heart failure OR heart infarct* OR high blood pressure OR hypertension OR ischaemic heart disease* OR ischemic heart disease* OR myocardial infarct* OR myocardial failure OR myocardium infarct* OR myocardium failure OR percutaneous coronary intervention* OR peripheral arterial disease OR stenocardia* OR stroke* OR subclinical atherosclerosis OR subclinical cardiovascular) AND noft(patient discharge* OR post hospitalization OR post hospitalisation OR home care OR homecare OR outpatient* OR "out patient") Databases: ProQuest Dissertations & Theses Global	

Clinical Trial Registry Search Overview

Last searched 25 November 2019

ClinicalTrials.gov

- 565 Studies found for: outpatient | Completed, Suspended, Terminated Studies | Cardiovascular Diseases OR heart disease | Adult
- Applied Filters: Completed, Suspended, Terminated, Adult (18–64)
- https://clinicaltrials.gov/ct2/results?term=outpatient&cond=Cardiovascular+Diseases+OR+heart+disease&recrs=g&recrs=h&recrs=e&age_v=&age=1&gndr=&type=&rslt=&Search=Apply

WHO International Clinical Trials Registry Platform

Search (cardiovascular disease OR heart disease) AND outpatient – Recruitment status is: ALL

Recruitment status	Prospective Registration	Main ID	Public Title	Date of Registration	Results available
Not Recruiting	No	JPRN-UMIN000021454	Multi-center study for evaluating distribution of RHI in Japanese subjects without cardiovascular diseases for estimating clinical reference value of RHI in Japan	12/03/2016	
Not recruiting	Yes	ACTRN12614000527662	Sedentary behaviour in people with cardiovascular disease: a pilot randomised controlled trial	19/05/2014	
Recruiting	No	CTRI/2013/08/003928	A study on risk of developing heart disease in patients with skin disease called psoriasis marked by red, itchy, scaly patches.	29-08-2013	

eReferences. List of Included Studies in Chronological Order (N = 456)

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functional capacity and coronary risk profile after acute myocardial infarction. Journal of Cardiovascular Medicine. 2009 Oct;10(10):772–780.

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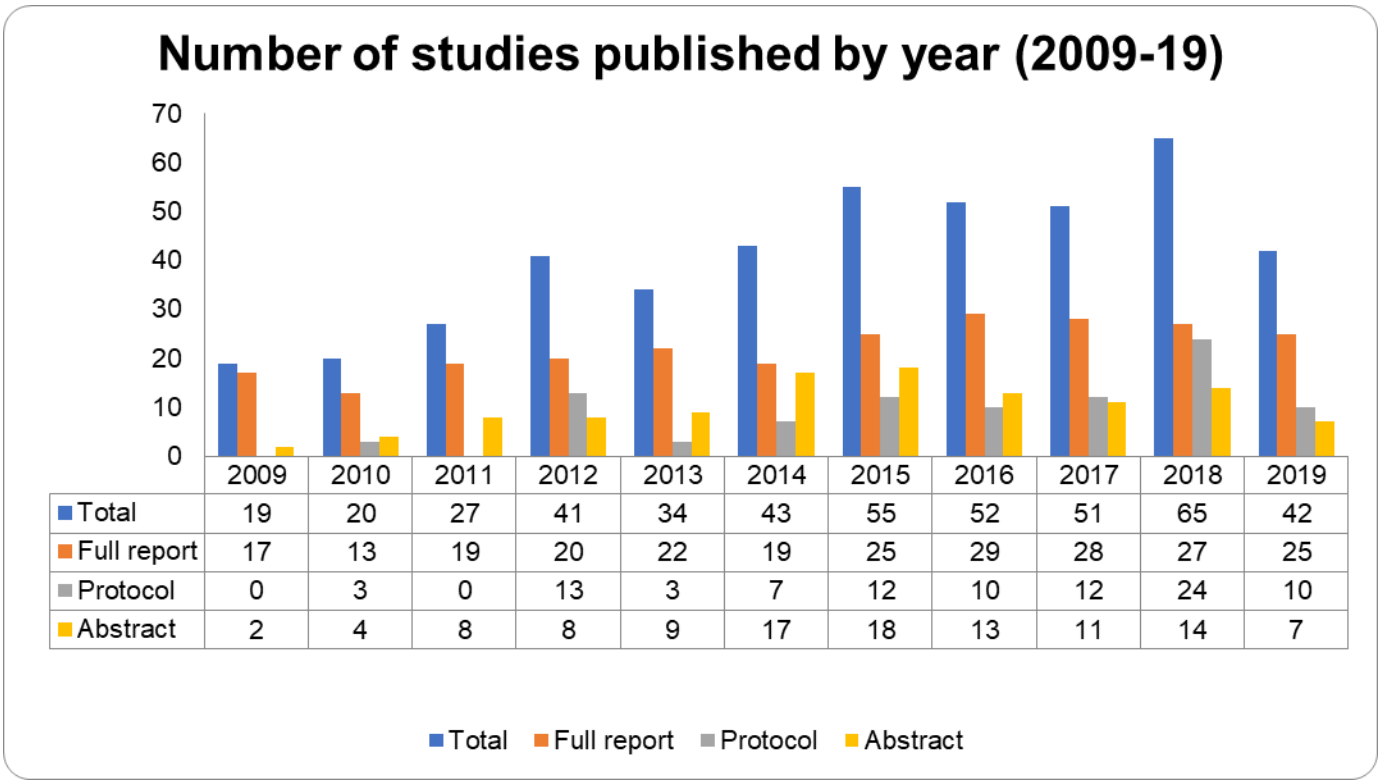
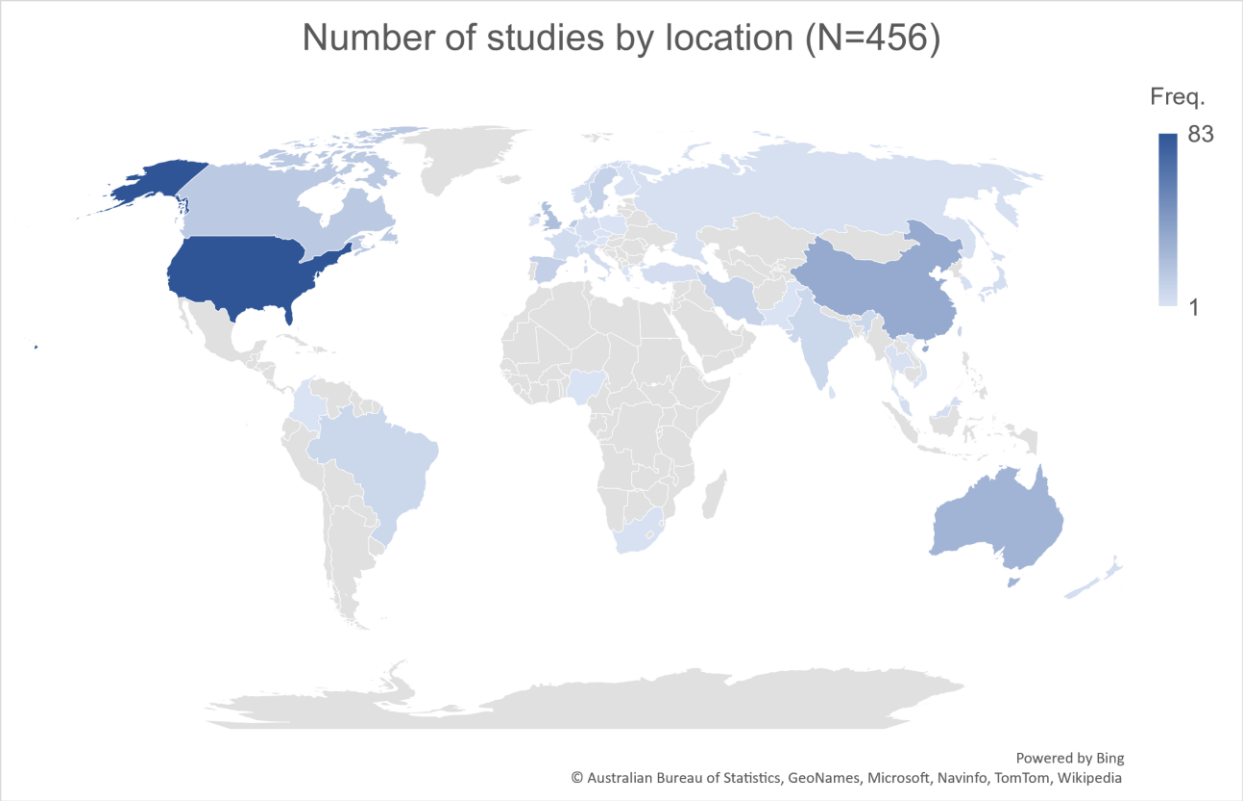
eFigure 1. Number and Types of Studies by Publication Year



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Total	19	20	27	41	34	43	55	52	51	65	42
Full report	17	13	19	20	22	19	25	29	28	27	25
Protocol	0	3	0	13	3	7	12	10	12	24	10
Abstract	2	4	8	8	9	17	18	13	11	14	7

eFigure 2. Number of Studies by Location



eFigure 3. Comparative Description of Intervention Type and Implementation Strategies

Implementation strategies	Patient Support	ICT-Health	Community Support	High intensity training	Supervision	Group problem solving	Printed information	Strengthening infrastructure	Financial incentives	Other mgmt techniques
Train and educate stakeholders	146	34	13	12	8	6	2		1	1
Engage consumers	64	11	1		2		2	2		
Provide interactive assistance	91	17	2	1	2	1	1			
Change infrastructure	8	8			1			1		
Adapt and tailor to the context	6	2			1					
Use evaluative and iterative strategies	1	3	3		1					
Utilize financial strategies	1							1	2	
Develop stakeholder interrelationship	2			1						
Support clinicians		2								
Chronic Care Model elements										
Combination	118	31	10	8	7	2	2	1	1	1
Decision support	86	11	1		2	2	1	1		
Delivery system design	57	15	3	2	4		1	2	1	
Self-management support	34	10	3	4	1	3	1		1	
Clinical information systems	15	10								
Community resources	1		1							
Organizational support		1		1						

Abbreviations: HCPPR=Health care provider performance review, ICT=Information communication and technology, Other mgmt techniques=management techniques

>25 studies
<25 to 5 studies
<5 to 1 studies
0 studies

eFigure 4. Intervention Type and Patient Population

Intervention type	Heart Failure	Stroke	Post-MI	Stable CAD	CVD	CVD+DM	PAD
Patient Support	121	83	43	32	27	4	1
ICT-Health	34	17	11	6	8	1	1
Community Support	4	9	2	2	1		
Supervision	5	2	3	3	2		
High intensity training	4	5	2	1	2		
Group problem solving	2	3	1	1			
Printed information		2	1				
Strengthening infrastructure	2	2		1			
Financial incentives	1	2	1				
Other management technique		1					

*MI=myocardial infarction, CAD=Coronary artery disease, CVD=cardiovascular disease, DM=diabetes mellitus, PAD=Peripheral arterial disease; ICT-Health=information communication and technology

>25 studies
<25 to 5 studies
<5 to 1 studies
0 studies

eFigure 5. Intervention Type and Clinical Setting

Intervention	Tertiary care Hospital	Hospital + Home care	Secondary care Hospital	Primary care hospital	Community Level hospital
Patient Support	146	92	6	10	4
ICT-Health	43	17	0	5	3
Community Support	2	8	1	4	1
Supervision	9	4			
High intensity training	11	2			
Group problem solving	3	1	1		
Printed information	2	1			
Strengthening infrastructure	4	3			
Financial incentives	1	1			
Other management technique		1			

*ICT=information communication and technology

>25 studies
<25 to 5 studies
<5 to 1 studies
0 studies

eFigure 6. Intervention Type and Study Location

Intervention Type	ECA	NA	EAP	MENA	LAC	SA	SSA
Patient Support	67	58	61	11	7	7	2
ICT-Health	20	26	16	1	2		
Community Support	4	3	7			2	
Supervision	9	3	1		1		
High intensity training	4	4	3			1	
Group problem solving	4		2				
Printed information	1	1	1				
Strengthening infrastructure		2	1				1
Financial incentives	1	0	1				
Other management technique							1

*ICT=Information communication and technology

N=Total number of studies; *146 studies did not provide details on study location.

ECA=Europe and Central Asia, NA=North America, EAP=East Asia and Pacific; MENA=Middle East and North Africa, LAC=Latin American and Caribbean, SA=South Asia, SSA=Sub-Saharan Africa

>25 studies
<25 to 5 studies
<5 to 1 studies
0 studies

eFigure 7. Detailed Summary of Overall Study Results Using Matrix Framework for the Cardiovascular Quality Improvement Strategies and Primary Outcomes Evaluated in the Included Studies (N = 456)

QI Strategies/Outcomes	Deaths				MACE				QoL				CE			
	+	0	-	NA	+	0	-	NA	+	0	-	NA	+	0	-	NA
Patient Support	6	7		1	6	2	1	4	19	10		8	5			
IT & CT-Health	3	4							7	1		3		1		
Community Support		1		1	1					1		1	1			
High intensity training	1								1	1						
Supervision								1		1		1	1			
Group problem solving									1			1				
Printed info																
Strengthening infrastructure													1			
Financial incentives																
Other management techniques									1							
Intervention-Delivery mode																
Combination	3	6		1	3		1	1	8	4		4	2	2		
Non-physician health worker	2	5		1	3	1		2	10	4		4	2			
Phone calls	2				1	1			2	3		2				
Technology (DS-EHR)	1								4	1		2	1			
Text messages																

QI Strategies/Outcomes	BP				Lipids				Meds adh				Tob cess			
	+	0	-	NA	+	0	-	NA	+	0	-	NA	+	0	-	NA
Patient Support	10	6		4	3	6		2	20	7	1	7	5	6		
IT & CT-Health	3	1		2	1			2	2	1		3	2			
Community Support				1												1
High intensity training		1										1	1			
Supervision									2							
Group problem solving																
Printed info										1		1				
Strengthening infrastructure																
Financial incentives				1												
Other management techniques																
Intervention-Delivery mode																
Combination	7	2		5	2	4		2	8	2		5	4	5		1
Non-physician health worker	2	4		1		2		1	7	2	1	2	2			
Phone calls	1			1				1	5				1			
Technology (DS-EHR)	1			1	1					2		2				
Text messages									3			1				

QI Strategies/Outcomes	Self-care				Exercise				Wt				Anx/Dep				Pt edu			
	+	0	-	NA	+	0	-	NA	+	0	-	NA	+	0	-	NA	+	0	-	NA
Patient Support	17	7		4	8	1	1	5	4	3		1	13	7		5	12	2		2
IT & CT-Health	1	2		2	3	1		3					1	1				4		
Community Support						1		1									1			
High intensity training	1			1	2	3				2			1	1				1		
Supervision				1	2	1		2	1									1		
Group problem solving	3																			
Printed info																				
Strengthening infrastructure													1							
Financial incentives								1												
Other management techniques																				
Intervention-Delivery mode																				
Combination	12	5		1	4	4		3	2	3		1	5	3		2	2	5		
Non-physician health worker	7	1		2	8	2	1	4	2	2			7	5		1	7			
Phone calls	1			1	1	1							3	1			1	2		
Technology (DS-EHR)	1	2		1	1												1	1		
Text messages								2									1			

QI Strategies/Outcomes	Rx satisf.				Hosp re-adm				LOS				Feasibility				Others			
	+	0	-	NA	+	0	-	NA	+	0	-	NA	+	0	-	NA	+	0	-	NA
Patient Support	3	1			21	10	2	7	1	5			2			1	40	24	2	19
IT & CT-Health					10	6		1	2			2				1	7	12		4
Community Support					2	1							3				1	2		1
High intensity training													1				3	5		
Supervision					2				1										1	
Group problem solving																	3	1		1
Printed info						1											2			
Strengthening infrastructure	1																	1		
Financial incentives						1														
Other management techniques																				
Intervention-Delivery mode																				
Combination	1				8	9		5		2			3				18	23		8
Non-physician health worker	3				14	5	1	1	2	2			3				17	16		7
Phone calls					4	1		1	1								5	4		1
Technology (DS-EHR)	1	1			4	4	1		1			2				1	6	4		3
Text messages								1								1				

*IT&CT=information, communication, and technology, DS-EHR=decision supported electronic health records, Printed info=printed information, Combination=combining more than one form of intervention delivery mode, e.g., non-physician health worker, phone calls, technology, or text-messages.

N=number of studies
Positive results (+)
Neutral results (0)
Negative results (-)
Results not available (NA)

eTable 1. Domains and Frameworks Used to Map Intervention Components, Implementation Strategies, and Context

Intervention components (HCPPR)	Implementation strategies (ERIC study)	Context (Chronic care model)
Patient support Examples include patient health education via health worker or home visits.	**Engage consumers.** Examples include involve patients and family members in care delivery, use mass media.	**Organizational support.** Examples include develop agreements that support care coordination, provide incentive based on quality of care.
Community support Examples include community health education or social marketing of health services.	**Use evaluative and iterative strategies.** Examples include conduct local need assessment, audit and provide feedback, implement tools for quality monitoring.	**Community resources.** Examples include form partnerships with community organizations to support and develop interventions.
Information and communication technology for health This category includes mHealth and eHealth. Examples include computerized decision aids or text message reminders sent to care providers' or patients' phones.	**Change infrastructure.** Examples include change patient record systems, change physical structure or equipment or service sites	**Self-Management Support**. Examples include use of strategies that involve assessment, goal setting, problem solving and follow-up.
Strengthening infrastructure Examples include provision of medicines or implementation of an improved data collection system.	**Adapt and tailor to context.** Examples include tailor strategies, use data experts.	**Delivery System Design.** Examples include provide clinical case management services, ensure regular follow-up by the care team.
Health-care provider-directed financial incentives Examples include performance-based payments.	**Develop stakeholder interrelationships.** Examples include use advisory boards and workgroups, inform local opinion leaders.	**Decision Support.** Examples include embed evidence-based guidelines into daily clinical practice, use proven education methods.
Health system financing and other incentives Examples include social health insurance or reducing a consultation fee.	**Utilize financial strategies.** Examples include use payment schemes.	**Clinical Information Systems.** Examples include provide timely reminders to patients and providers.
Regulation and governance Examples include accreditation or introducing standard drug quality requirements.	**Support clinicians**. Examples include facilitate relay of clinical data to providers, remind clinicians,	
Group problem solving Examples include collaborative improvement or group problem solving with or without formal teams.	**Provide interactive assistance**. Examples include provide technical assistance, and clinical supervision.	

Supervision Examples include improving routine supervision, benchmarking, or audit with feedback.	**Train and educate stakeholders.** Examples include conduct training and develop educational materials.	
High-intensity training Training with a duration greater than 5 days (or ongoing training) and at least one interactive educational method.		
Other management techniques These include techniques that do not include group problem solving and supervision, such as health-care provider self-assessment		
Printed information for patients and health-care providers. Examples include health information provided as a pamphlet.		

*HCPPR=Healthcare provider performance review; ERIC=Expert recommendations for Implementing change study

eTable 2. Descriptive Summary of Study Outcomes, Follow-up Duration, Sample Size, and Overall Results in the Included Studies (N = 456)

Outcomes (primary)	**N**	**%**
Deaths	36	7.9
Major adverse cardiovascular events	17	3.7
Medication adherence	51	11.2
Blood pressure	36	7.9
Blood cholesterol	21	4.6
Blood sugar	5	1.1
Physical activity/exercise	39	8.6
Weight / BMI (body mass index)	15	3.3
Smoking/tobacco cessation	17	3.7
Self-care behaviors	47	10.3
Anxiety/depression	32	7.0
Quality of life	71	15.6
Cost-effectiveness	11	2.4
Hospital re-admission rate	75	16.4
Length of hospital stay	13	2.9
Patient education	24	5.3
Treatment satisfaction	6	1.3
Waist circumference	4	0.9
Feasibility/Acceptability/Fidelity	8	1.8
Follow-up duration, mean (in months)	9.1	
Sample size, mean (range)	372	10 - 21752
Mean age (years, SD)	64.6	7.1
Female (%)	38.1	
Economic data reported, yes (%)	84	17.2
Overall Results		
Significant/Positive	227	49.7
Non-significant/Negative	76	16.6
Mixed	45	9.8
Not available	108	23.7

*SD=standard deviation.