

Supplementary Materials

Supplement A: Collated Systematic Search Results and Title/ Abstract Screened Selections **6/7/21**

<u>Inclusion Criteria</u>
Myocardial infarction patient.
Published between 2000 and 2021.
Examines patient experience, perspective, requirements of medication taking.
Original qualitative data.
Available in English.

1) PubMed Search

All fields, no restrictions

<u>Search</u>	<u>Search Terms</u>	<u>No. of Results</u>		
		<u>HP</u> <u>22/3/21</u>	<u>AR</u> <u>21/6/21</u>	<u>HP</u> <u>6/7/21</u>
1	"Qualitative research"[MeSH] OR "qualitative research" OR qualitative OR "phenomeno*" OR "experience" OR "content analysis" OR "thematic analysis" OR "grounded theory" OR "ethnography" OR "interview" OR "discourse analysis" OR "conversation analysis"	1,352,167	1,376,309	1,383,551
2	"myocardial infarction"[MeSH] OR "myocardial infarction" OR "heart attack" OR "AMI"	265,309	267,960	268,812
3	"medication adherence"[MeSH] OR "medication adherence" OR "medication compliance" OR "medication concordance" OR "medicine adherence" OR "medicine compliance"	29,513	30,163	30,367
4	#1 AND #2 AND #3	52	53	53

[South Asians living in the UK and adherence to coronary heart disease medication: a mixed- method study.](#)

Jalal Z, Antoniou S, Taylor D, Paudyal V, Finlay K, Smith F. Int J Clin Pharm. 2019 Feb;41(1):122-130. doi: 10.1007/s11096-018-0760-3. Epub 2018 Dec 18.

[Perspectives of Patients and Professionals on Information and Education After Myocardial Infarction With Insight for Mixed Reality Implementation: Cross-Sectional Interview Study.](#)

Hilt AD, Mamaqi Kapllani K, Hierck BP, Kemp AC, Albayrak A, Melles M, Schaliij MJ, Scherptong RWC. *JMIR Hum Factors*. 2020 Jun 23;7(2):e17147. doi: 10.2196/17147.

[Drug compliance after stroke and myocardial infarction: a comparative study.](#)

Arif H, Aijaz B, Islam M, Aftab U, Kumar S, Shafqat S. *Neurol India*. 2007 Apr-Jun;55(2):130-5. doi: 10.4103/0028-3886.32783.

[Clinician-patient discord: exploring differences in perspectives for discontinuing clopidogrel.](#)

Garavalia L, Ho PM, Garavalia B, Foody JM, Kruse H, Spertus JA, Decker C. *Eur J Cardiovasc Nurs*. 2011 Mar;10(1):50-5. doi: 10.1016/j.ejcnurse.2010.04.002. Epub 2010 May 21.

[Exploring patients' reasons for discontinuance of heart medications.](#)

Garavalia L, Garavalia B, Spertus JA, Decker C. *J Cardiovasc Nurs*. 2009 Sep-Oct;24(5):371-9. doi: 10.1097/JCN.0b013e3181ae7b2a.

2) SCOPUS Search

TITLE-ABS-KEY, no restrictions

Search	Search Terms	No. of Results		
		HP 24/3/21	AR 21/6/21	HP 6/7/21
5	"qualitative research" OR qualitative OR "phenomeno*" OR "experience" OR "content analysis" OR "thematic analysis" OR "grounded theory" OR "ethnography" OR "interview" OR "discourse analysis" OR "conversation analysis"	4,796,317	4,884,827	4,913,231
6	"myocardial infarction" OR "heart attack" OR "AMI"	302,173	305,752	306,578
Z	"medication adherence" OR "medication compliance" OR "medication concordance" OR "medicine adherence" OR "medicine compliance"	43,929	45,123	45,422
8	#5 AND #6 AND #7	101	105	106

Perspectives of patients and professionals on information and education after myocardial infarction with insight for mixed reality implementation: Cross-sectional interview study

Hilt, A.D., Kapllani, K.M., Hierck, B.P., (...), Schalijs, M.J., Scherptong, R.W.C. 2020 JMIR Human Factors 7(2),e17147

South Asians living in the UK and adherence to coronary heart disease medication: a mixed-method study

Jalal, Z., Antoniou, S., Taylor, D., (...), Finlay, K., Smith, F. 2019 International Journal of Clinical Pharmacy 41(1), pp. 122-130

Identifying determinants of medication adherence following myocardial infarction using the Theoretical Domains Framework and the Health Action Process Approach

Presseau, J., Schwalm, J.D., Grimshaw, J.M., (...), Sullivan, K., Ivers, N.M. 2017 Psychology and Health 32(10), pp. 1176-1194

Clinician-patient discord: Exploring differences in perspectives for discontinuing clopidogrel

Garavalia, L., Ho, P.M., Garavalia, B., (...), Spertus, J.A., Decker, C. 2011 European Journal of Cardiovascular Nursing 10(1), pp. 50-55

Impact of community pharmacist intervention discussing patients' beliefs to improve medication adherence

Gujral, G., Winckel, K., Nissen, L.M., Cottrell, W.N. 2014 International Journal of Clinical Pharmacy 36(5), pp. 1048-1058

Exploring patients' reasons for discontinuance of heart medications

Garavalia, L., Garavalia, B., Spertus, J.A., Decker, C. 2009 Journal of Cardiovascular Nursing 24(5), pp. 371-379

Drug compliance after stroke and myocardial infarction: A comparative study

Arif, H., Aijaz, B., Islam, M., (...), Kumar, S., Shafqat, S. 2007 Neurology India 55(2), pp. 130-135

3) PsycInfo

Keywords, no restrictions

<u>Search</u>	<u>Search Terms</u>	<u>No. of Results</u>		
		<u>HP</u> <u>24/3/21</u>	<u>AR</u> <u>21/6/21</u>	<u>HP</u> <u>6/7/21</u>
<u>9</u>	"qualitative research" OR qualitative OR "phenomeno*" OR "experience" OR "content analysis" OR "thematic analysis" OR "grounded theory" OR "ethnography" OR "interview" OR "discourse analysis" OR "conversation analysis"	839,782	853,278	856,671
<u>10</u>	"myocardial infarction" OR "heart attack" OR "AMI"	6,161	6,209	6,221
<u>11</u>	"medication adherence" OR "medication compliance" OR "medication concordance" OR "medicine adherence" OR "medicine compliance"	7,678	7,803	7,829
<u>12</u>	#9 AND #10 AND #11	12	12	13

Impact of community pharmacist intervention discussing patients' beliefs to improve medication adherence

G Gujral, K Winckel, LM Nissen, WN Cottrell

International journal of clinical pharmacy, 2014, 36(5), 1048-1058 | added to CENTRAL: 31 December 2014 | 2014 Issue 12

South Asians living in the UK and adherence to coronary heart disease medication: a mixed-method study

Z Jalal, S Antoniou, D Taylor, V Paudyal, K Finlay, F Smith

International journal of clinical pharmacy, 2019, 41(1), 122-130 | added to CENTRAL: 31 March 2019 | 2019 Issue 3

4) Cochrane Library

TITLE-ABS-KEY, no restrictions

<u>Search</u>	<u>Search Terms</u>	<u>No. of Results</u>		
		<u>HP</u> <u>24/3/21</u>	<u>AR</u> <u>21/6/21</u>	<u>HP</u> <u>6/7/21</u>

13	"qualitative research" OR qualitative OR "phenomeno*" OR "experience" OR "content analysis" OR "thematic analysis" OR "grounded theory" OR "ethnography" OR "interview" OR "discourse analysis" OR "conversation analysis"	151,717	156,830	88,995
14	<u>"myocardial infarction" OR "heart attack" OR "AMI"</u>	33,047	33,208	33,706
15	"medication adherence" OR "medication compliance" OR "medication concordance" OR "medicine adherence" OR "medicine compliance"	8,471	8,649	8,767
16	#13 AND #14 AND #15	49	50	59

Impact of community pharmacist intervention discussing patients' beliefs to improve medication adherence

G Gujral, K Winckel, LM Nissen, WN Cottrell

International journal of clinical pharmacy, 2014, 36(5), 1048-1058 | added to CENTRAL: 31 December 2014 | 2014 Issue 12

South Asians living in the UK and adherence to coronary heart disease medication: a mixed-method study

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International journal of clinical pharmacy, 2019, 41(1), 122-130 | added to CENTRAL: 31 March 2019 | 2019 Issue 3

5) Web Of Science

All databases, keywords, no restrictions

<u>Search</u>	<u>Search Terms</u>	<u>No. of Results</u>			
		<u>HP</u> <u>24/3/21</u>	<u>AR</u> <u>21/6/21</u>	<u>HP</u> <u>6/7/21</u>	<u>HP</u> <u>5/8/21</u>
17	"qualitative research" OR qualitative OR "phenomeno*" OR "experience" OR "content analysis" OR "thematic analysis" OR "grounded theory" OR "ethnography" OR "interview" OR "discourse analysis" OR "conversation analysis"	4,401,035	206,505	4,541,098	4,586,701

<u>18</u>	"myocardial infarction" OR "heart attack" OR "AMI"	521,851	55,436	528,393	530,271
<u>19</u>	"medication adherence" OR "medication compliance" OR "medication concordance" OR "medicine adherence" OR "medicine compliance"	38,780	5,177	39,932	40,275
<u>20</u>	#17 AND #18 AND #19	135	1	137	138

Core collection

<u>Sea</u> <u>rch</u>	<u>Search Terms</u>	<u>HP 5/8/21</u>
<u>17</u>	"qualitative research" OR qualitative OR "phenomeno*" OR "experience" OR "content analysis" OR "thematic analysis" OR "grounded theory" OR "ethnography" OR "interview" OR "discourse analysis" OR "conversation analysis"	2,683,000
<u>18</u>	"myocardial infarction" OR "heart attack" OR "AMI"	325,065
<u>19</u>	"medication adherence" OR "medication compliance" OR "medication concordance" OR "medicine adherence" OR "medicine compliance"	21,353
<u>20</u>	#17 AND #18 AND #19	85

(All databases) HP's results:

Perspectives of Patients and Professionals on Information and Education After Myocardial Infarction With Insight for Mixed Reality Implementation: Cross-Sectional Interview Study.

By: Hilt, Alexander D; Mamaqi Kapllani, Kevin; Hierck, Beerend P; et al.

JMIR human factors Volume: 7 Issue: 2 Pages: e17147 Published: 2020 Jun 23

"It's up to me with a little support" - Adherence after myocardial infarction: A qualitative study

By: Hanna, Admi; Yael, Eilon-Moshe; Hadassa, Levy; et al.

INTERNATIONAL JOURNAL OF NURSING STUDIES Volume: 101 Article Number: 103416

Published: JAN 2020

South Asians living in the UK and adherence to coronary heart disease medication: a mixed-method study

By: Jalal, Zahraa; Antoniou, Sotiris; Taylor, David; et al.

INTERNATIONAL JOURNAL OF CLINICAL PHARMACY Volume: 41 Issue: 1 Pages: 122-130 Published: FEB 2019

Clinician-patient discord: Exploring differences in perspectives for discontinuing clopidogrel

By: Garavalia, Linda; Ho, P. Michael; Garavalia, Brian; et al.

EUROPEAN JOURNAL OF CARDIOVASCULAR NURSING Volume: 10 Issue: 1 Pages: 50-55 Published: MAR 2011

Exploring Patients' Reasons for Discontinuance of Heart Medications

By: Garavalia, Linda; Garavalia, Brian; Spertus, John A.; et al.

JOURNAL OF CARDIOVASCULAR NURSING Volume: 24 Issue: 5 Pages: 371-379
Published: SEP-OCT 2009

Drug compliance after stroke and myocardial infarction: A comparative study

By: Arif, Hiba; Aijaz, Bilal; Islam, Muhammad; et al.

NEUROLOGY INDIA Volume: 55 Issue: 2 Pages: 130-135 Published: APR-JUN 2007

Full-Read Selected Results Summary

(Duplicates removed)

A) Perspectives of Patients and Professionals on Information and Education After Myocardial Infarction With Insight for Mixed Reality Implementation: Cross-Sectional Interview Study.

By: Hilt, Alexander D; Mamaqi Kapllani, Kevin; Hierck, Beerend P; et al.

JMIR human factors Volume: 7 Issue: 2 Pages: e17147 Published: 2020 Jun 23

<https://doi.org/10.2196/17147>

B) "It's up to me with a little support" - Adherence after myocardial infarction: A qualitative study

By: Hanna, Admi; Yael, Eilon-Moshe; Hadassa, Levy; et al.

INTERNATIONAL JOURNAL OF NURSING STUDIES Volume: 101 Article Number: 103416
Published: JAN 2020

<https://doi.org/10.1016/j.ijnurstu.2019.103416>

C) South Asians living in the UK and adherence to coronary heart disease medication: a mixed-method study

By: Jalal, Zahraa; Antoniou, Sotiris; Taylor, David; et al.

INTERNATIONAL JOURNAL OF CLINICAL PHARMACY Volume: 41 Issue: 1 Pages: 122-130
Published: FEB 2019

<https://doi.org/10.1007/s11096-018-0760-3>

D) Clinician-patient discord: Exploring differences in perspectives for discontinuing clopidogrel

By: Garavalia, Linda; Ho, P. Michael; Garavalia, Brian; et al.

EUROPEAN JOURNAL OF CARDIOVASCULAR NURSING Volume: 10 Issue: 1 Pages: 50-55
Published: MAR 2011

<https://doi.org/10.1016%2Fj.ejcnurse.2010.04.002>

E) Exploring Patients' Reasons for Discontinuance of Heart Medications

By: Garavalia, Linda; Garavalia, Brian; Spertus, John A.; et al.

JOURNAL OF CARDIOVASCULAR NURSING Volume: 24 Issue: 5 Pages: 371-379
Published: SEP-OCT 2009

<https://dx.doi.org/10.1097%2FJCN.0bo13e3181ae7b2a>

F) Drug compliance after stroke and myocardial infarction: A comparative study

By: Arif, Hiba; Aijaz, Bilal; Islam, Muhammad; et al.

NEUROLOGY INDIA Volume: 55 Issue: 2 Pages: 130-135 Published: APR-JUN 2007

<https://doi.org/10.4103/0028-3886.32783>

G) Impact of community pharmacist intervention discussing patients' beliefs to improve medication adherence

G Gujral, K Winckel, LM Nissen, WN Cottrell

International journal of clinical pharmacy, 2014, 36(5), 1048-1058 | added to CENTRAL: 31
December 2014 | 2014 Issue 12

<https://doi.org/10.1007/s11096-014-9993-y>

H) Identifying determinants of medication adherence following myocardial infarction using the Theoretical Domains Framework and the Health Action Process Approach. [References].

Presseau, Justin; Schwalm, J. D; Grimshaw, Jeremy M; Witteman, Holly O; Natarajan, Madhu K; Linklater, Stefanie; Sullivan, Katrina; Ivers, Noah M.

Psychology & Health. Vol.32(10), 2017, pp. 1176-1194.

<https://doi.org/10.1080/08870446.2016.1260724>

Part 2) Snowball Search

Systematic Searching Using 'Cited By' in PubMed

25/3/21

A) Perspectives of Patients and Professionals on Information and Education After Myocardial Infarction With Insight for Mixed Reality Implementation: Cross-Sectional Interview Study.

By: Hilt, Alexander D; Mamaqi Kapllani, Kevin; Hierck, Beerend P; et al.

Cited by:

Shi, W., Ghisi, G.L., Hyun, K., Zhang, L. and Gallagher, R., 2021. Patient education interventions for health behaviour change in adults diagnosed with coronary heart disease: A protocol for a systematic review and meta-analysis. *Journal of Advanced Nursing*, 77(2), pp.1043-1050.

B) "It's up to me with a little support" - Adherence after myocardial infarction: A qualitative study

By: Hanna, Admi; Yael, Eilon-Moshe; Hadassa, Levy; et al.

Cited by:

Rashid, A., 2020. Yonder: Medication adherence, Twitter, head and neck cancer, and knitting. *British Journal of General Practice*, 70(690), pp.28-28.

C) South Asians living in the UK and adherence to coronary heart disease medication: a mixed- method study

By: Jalal, Zahraa; Antoniou, Sotiris; Taylor, David; et al.

Cited by (2):

Mahmood, S., Jalal, Z., Hadi, M.A., Orooj, H. and Shah, K.U., 2020. Non-Adherence to prescribed antihypertensives in primary, secondary and tertiary healthcare settings in Islamabad, Pakistan: a cross-sectional study. *Patient preference and adherence*, 14, p.73. Association between attendance at outpatient follow-up appointments and blood pressure control among patients with hypertension

Mahmood, S., Jalal, Z., Hadi, M.A. and Shah, K.U., 2020. Association between attendance at outpatient follow-up appointments and blood pressure control among patients with hypertension. *BMC Cardiovascular Disorders*, 20(1), pp.1-11.

D) Clinician-patient discord: Exploring differences in perspectives for discontinuing clopidogrel

By: Garavalia, Linda; Ho, P. Michael; Garavalia, Brian; et al.

Cited by (14):

THIS IS: Garavalia L, Ho PM, Garavalia B, Foody JM, Kruse H, Spertus JA, Decker C. Clinician-patient discord: exploring differences in perspectives for discontinuing clopidogrel. *Eur J Cardiovasc Nurs*. 2011 Mar;10(1):50-5. doi: 10.1016/j.ejcnurse.2010.04.002. Epub 2010 May 21. PMID: 20483665; PMCID: PMC2932847.

Boyd AD, Ndukwe CI, Dileep A, Everin OF, Yao Y, Welland B, Field J, Baumann M, Flores JD Jr, Shroff A, Groo V, Dickens C, Doukky R, Francis R, Peacock G, Wilkie DJ. Elderly Medication Adherence Intervention Using the My Interventional Drug-Eluting Stent Educational App: Multisite Randomized Feasibility Trial. *JMIR Mhealth Uhealth*. 2020 Jun 24;8(6):e15900. doi: 10.2196/15900. PMID: 32579120; PMCID: PMC7381043.

Freier C, Heintze C, Herrmann WJ. Prescribing and medical non-adherence after myocardial infarction: qualitative interviews with general practitioners in Germany. *BMC Fam Pract*. 2020 May 8;21(1):81. doi: 10.1186/s12875-020-01145-6. PMID: 32384915; PMCID: PMC7210678.

El-Toukhy H, Omar A, Abou Samra M. Effect of acute coronary syndrome patients' education on adherence to dual antiplatelet therapy. *J Saudi Heart Assoc*. 2017 Oct;29(4):252-258. doi: 10.1016/j.jsha.2017.02.003. Epub 2017 Mar 8. PMID: 28983168; PMCID: PMC5623036.

Biscaglia S, Tonet E, Pavasini R, Serenelli M, Bugani G, Cimaglia P, Gallo F, Spitaleri G, Del Franco A, Aquila G, Vieceli Dalla Sega F, Tebaldi M, Tumscitz C, Ferrari R, Campo G. A counseling program on nuisance bleeding improves quality of life in patients on dual antiplatelet therapy: A randomized controlled trial. *PLoS One*. 2017 Aug 23;12(8):e0182124. doi: 10.1371/journal.pone.0182124. PMID: 28832589; PMCID: PMC5568410.

Shah V, Dileep A, Dickens C, Groo V, Welland B, Field J, Baumann M, Flores JD, Shroff A, Zhao Z, Yao Y, Wilkie DJ, Boyd AD. Patient-Centered Tablet Application for Improving Medication Adherence after a Drug-Eluting Stent. *Front Public Health*. 2016 Dec 12;4:272. doi: 10.3389/fpubh.2016.00272. PMID: 28018897; PMCID: PMC5149519.

Reeve E, Low LF, Shakib S, Hilmer SN. Development and Validation of the Revised Patients' Attitudes Towards Deprescribing (rPATD) Questionnaire: Versions for Older Adults and Caregivers. *Drugs Aging*. 2016 Dec;33(12):913-928. doi: 10.1007/s40266-016-0410-1. PMID: 27785734.

Lambert-Kerzner A, Havranek EP, Plomondon ME, Fagan KM, McCreight MS, Fehling KB, Williams DJ, Hamilton AB, Albright K, Blatchford PJ, Mihalko-Corbitt R, Bryson CL, Bosworth HB, Kirshner MA, Giacco EJ, Ho PM. Perspectives of patients on factors relating to adherence to post-acute coronary syndrome medical regimens. *Patient Prefer Adherence*. 2015 Jul 24;9:1053-9. doi: 10.2147/PPA.S84546. PMID: 26244013; PMCID: PMC4521673.

Boyd AD, Moores K, Shah V, Sadhu E, Shroff A, Groo V, Dickens C, Field J, Baumann M, Welland B, Gutowski G, Flores JD Jr, Zhao Z, Bahroos N, Hynes DM, Wilkie DJ. My Interventional Drug-Eluting Stent Educational App (MyIDEA): Patient-Centered Design

Methodology. *JMIR Mhealth Uhealth*. 2015 Jul 2;3(3):e74. doi: 10.2196/mhealth.4021. PMID: 26139587; PMCID: PMC4526975.

Mathews R, Peterson ED, Honeycutt E, Chin CT, Efron MB, Zettler M, Fonarow GC, Henry TD, Wang TY. Early Medication Nonadherence After Acute Myocardial Infarction: Insights into Actionable Opportunities From the Treatment with ADP receptor inhibitorS: Longitudinal Assessment of Treatment Patterns and Events after Acute Coronary Syndrome (TRANSLATE-ACS) Study. *Circ Cardiovasc Qual Outcomes*. 2015 Jul;8(4):347-56. doi: 10.1161/CIRCOUTCOMES.114.001223. Epub 2015 Jun 2. PMID: 26038524; PMCID: PMC4512913.

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Czarny MJ, Nathan AS, Yeh RW, Mauri L. Adherence to dual antiplatelet therapy after coronary stenting: a systematic review. *Clin Cardiol*. 2014 Aug;37(8):505-13. doi: 10.1002/clc.22289. Epub 2014 May 2. PMID: 24797884; PMCID: PMC4140973.

Amin AP, Bachuwar A, Reid KJ, Chhatriwalla AK, Salisbury AC, Yeh RW, Kosiborod M, Wang TY, Alexander KP, Gosch K, Cohen DJ, Spertus JA, Bach RG. Nuisance bleeding with prolonged dual antiplatelet therapy after acute myocardial infarction and its impact on health status. *J Am Coll Cardiol*. 2013 May 28;61(21):2130-8. doi: 10.1016/j.jacc.2013.02.044. Epub 2013 Mar 26. PMID: 23541975; PMCID: PMC4332538.

Decker C, Garavalia L, Garavalia B, Simon T, Loeb M, Spertus JA, Daniel WC. Exploring barriers to optimal anticoagulation for atrial fibrillation: interviews with clinicians. *J Multidiscip Healthc*. 2012;5:129-35. doi: 10.2147/JMDH.S33045. Epub 2012 Jun 13. PMID: 22936848; PMCID: PMC3426274.

E) Exploring Patients' Reasons for Discontinuance of Heart Medications

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Cited by (26):

THIS IS : Garavalia L, Garavalia B, Spertus JA, Decker C. Exploring patients' reasons for discontinuance of heart medications. *J Cardiovasc Nurs*. 2009 Sep-Oct;24(5):371-9. doi: 10.1097/JCN.0b013e3181ae7b2a. PMID: 19707097; PMCID: PMC3351271.

Herrett E, Williamson E, Brack K, Beaumont D, Perkins A, Thayne A, Shakur-Still H, Roberts I, Prowse D, Goldacre B, van Staa T, MacDonald TM, Armitage J, Wimborne J, Melrose P, Singh J, Brooks L, Moore M, Hoffman M, Smeeth L; StatinWISE Trial Group. Statin treatment and muscle symptoms: series of randomised, placebo controlled n-of-1 trials. *BMJ*. 2021 Feb 24;372:n135. doi: 10.1136/bmj.n135. PMID: 33627334; PMCID: PMC7903384.

Mahmood S, Jalal Z, Hadi MA, Khan TM, Haque MS, Shah KU. Prevalence of non-adherence to antihypertensive medication in Asia: a systematic review and meta-analysis. *Int J Clin Pharm*. 2021 Jan 29. doi: 10.1007/s11096-021-01236-z. Epub ahead of print. PMID: 33515135.

Boyd AD, Ndukwe CI, Dileep A, Everin OF, Yao Y, Welland B, Field J, Baumann M, Flores JD Jr, Shroff A, Groo V, Dickens C, Doukky R, Francis R, Peacock G, Wilkie DJ. Elderly Medication Adherence Intervention Using the My Interventional Drug-Eluting Stent Educational App: Multisite Randomized Feasibility Trial. *JMIR Mhealth Uhealth*. 2020 Jun 24;8(6):e15900. doi: 10.2196/15900. PMID: 32579120; PMCID: PMC7381043.

Lam SKK, Kwong EWY, Hung MSY, Chien WT. Emergency nurses' perceptions regarding the risks appraisal of the threat of the emerging infectious disease situation in emergency departments. *Int J Qual Stud Health Well-being*. 2020 Dec;15(1):e1718468. doi: 10.1080/17482631.2020.1718468. PMID: 31975652; PMCID: PMC7034460.

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M A Jalal ZS, Smith F, Taylor D, Finlay K, Patel H, Antoniou S. Impact of pharmacy care upon adherence to cardiovascular medicines: a feasibility pilot controlled trial. *Eur J Hosp Pharm*. 2016 Sep;23(5):250-256. doi: 10.1136/ejhpharm-2015-000790. Epub 2016 Feb 2. PMID: 31156861; PMCID: PMC6451569.

Chhatriwalla AK, Decker C, Gialde E, Catley D, Goggin K, Jaschke K, Jones P, deBronkart D, Sun T, Spertus JA. Developing and Testing a Personalized, Evidence-Based, Shared Decision-Making Tool for Stent Selection in Percutaneous Coronary Intervention Using a Pre-Post Study Design. *Circ Cardiovasc Qual Outcomes*. 2019 Feb;12(2):e005139. doi: 10.1161/CIRCOUTCOMES.118.005139. PMID: 30764654; PMCID: PMC6383794.

Jalal Z, Antoniou S, Taylor D, Paudyal V, Finlay K, Smith F. South Asians living in the UK and adherence to coronary heart disease medication: a mixed- method study. *Int J Clin Pharm*. 2019 Feb;41(1):122-130. doi: 10.1007/s11096-018-0760-3. Epub 2018 Dec 18. PMID: 30564971; PMCID: PMC6394505.

Koh JJK, Cheng RX, Yap Y, Haldane V, Tan YG, Teo KWQ, Srivastava A, Ong PS, Perel P, Legido-Quigley H. Access and adherence to medications for the primary and secondary prevention of atherosclerotic cardiovascular disease in Singapore: a qualitative study. *Patient Prefer Adherence*. 2018 Nov 22;12:2481-2498. doi: 10.2147/PPA.S176256. PMID: 30538432; PMCID: PMC6255116.

Krack G, Holle R, Kirchberger I, Kuch B, Amann U, Seidl H. Determinants of adherence and effects on health-related quality of life after myocardial infarction: a prospective cohort study. *BMC Geriatr*. 2018 Jun 7;18(1):136. doi: 10.1186/s12877-018-0827-y. PMID: 29898677; PMCID: PMC6001009.

Ju A, Hanson CS, Banks E, Korda R, Craig JC, Usherwood T, MacDonald P, Tong A. Patient beliefs and attitudes to taking statins: systematic review of qualitative studies. *Br J Gen Pract*. 2018 Jun;68(671):e408-e419. doi: 10.3399/bjgp18X696365. PMID: 29784867; PMCID: PMC6002012.

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Systematic Searching Using 'Similar Articles' in PubMed

26/3/21

A) Perspectives of Patients and Professionals on Information and Education After Myocardial Infarction With Insight for Mixed Reality Implementation: Cross-Sectional Interview Study.

By: Hilt, Alexander D; Mamaqi Kapllani, Kevin; Hierck, Beerend P; et al.

105 results

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Jalal Z, Antoniou S, Taylor D, Paudyal V, Finlay K, Smith F. South Asians living in the UK and adherence to coronary heart disease medication: a mixed- method study. *Int J Clin Pharm*. 2019 Feb;41(1):122-130. doi: 10.1007/s11096-018-0760-3. Epub 2018 Dec 18. PMID: 30564971; PMCID: PMC6394505.

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B) "It's up to me with a little support" - Adherence after myocardial infarction: A qualitative study

By: Hanna, Admi; Yael, Eilon-Moshe; Hadassa, Levy; et al.

124 results

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C) South Asians living in the UK and adherence to coronary heart disease medication: a mixed- method study

By: Jalal, Zahraa; Antoniou, Sotiris; Taylor, David; et al.

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D) Clinician-patient discord: Exploring differences in perspectives for discontinuing clopidogrel

By: Garavalia, Linda; Ho, P. Michael; Garavalia, Brian; et al.

83 results

Garavalia L, Garavalia B, Spertus JA, Decker C. Exploring patients' reasons for discontinuance of heart medications. *J Cardiovasc Nurs*. 2009 Sep-Oct;24(5):371-9. doi: 10.1097/JCN.0b013e3181ae7b2a. PMID: 19707097; PMCID: PMC3351271.

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E) Exploring Patients' Reasons for Discontinuance of Heart Medications

By: Garavalia, Linda; Garavalia, Brian; Spertus, John A.; et al.

76 results

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F) Drug compliance after stroke and myocardial infarction: A comparative study

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106 results- zero within criteria sift.

G) Impact of community pharmacist intervention discussing patients' beliefs to improve medication adherence

G Gujral, K Winckel, LM Nissen, WN Cottrell

321 results

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H) Identifying determinants of medication adherence following myocardial infarction using the Theoretical Domains Framework and the Health Action Process Approach.

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Summary of Results

Database search

Database Used	No. Results Combined Concepts	No. Results Within Criteria
PubMed	52	5
SCOPUS	101	7
PsychINFO	12	2
Cochrane Library	49	2
Web Of Science	135	6
Total	349	22
Unique results		8

Snowball results

Search Type	No. Of Results	No. results within Criteria	No. New results within criteria
Cited by	66	2	1
Similar Articles	1181	21	4

Full-read Selection of results:

Hilt AD, Mamaqi Kapllani K, Hierck BP, Kemp AC, Albayrak A, Melles M, Schaliy MJ, Scherptong RWC. Perspectives of Patients and Professionals on Information and Education After Myocardial Infarction With Insight for Mixed Reality Implementation: Cross-Sectional Interview Study. *JMIR Hum Factors*. 2020 Jun 23;7(2):e17147. doi: 10.2196/17147. PMID: 32573464; PMCID: PMC7381062.

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Supplement B: Characteristics of Included Studies

Authors	Year	Country of Origin	Aim	Design	Methodology	Sample size	Cohort detail	Main Findings
Attebring MF, Herlitz J, Ekman I.	2005	Sweden	To explore patients' experiences of secondary prevention of MI	In depth interview	Hermeneutical analysis	20	No previous CVD. 12 men, 8 women	Impact of medication- Bodily sensations perceived as due to medicines rather than disease. Impact of health professionals- Communication resulted in confusion about medication and severity of disease.
Decker C, Garavalia L, Garavalia B, Spertus JA.	2008	USA	To investigate why patients stopped a medication and barriers to adherence	Qualitative interview	Content analysis	11	NSTEMI patients with stent. Those who discontinued taking clopidogrel within one month of starting, compared to continuing patients. 41-77 years, mostly male and Caucasian.	Discontinuers cited a misunderstanding over treatment duration. Discontinuers also claimed weakness in system, such as gaps in transfer of care.
Desveaux L, Saragosa M, Russell K, McCleary N, Presseau J, Witteman HO, Schwalzm JD, Ivers NM.	2020	Canada	Explore the extent, mechanism and future of a behavioural intervention to improve adherence to cardiac rehab and medicine taking	Semi-structured interview	Framework analysis, coding according to Theoretical Domains Framework	31	Post -AMI patients given a behavioural intervention booklet. Purposive sample to ensure variance of age, gender, SES, marital status and ethnicity. Separated into not engaged with intervention, engaged with positive outcome, engaged with negative outcome.	Patient's belief about consequences, belief about capability, intentions, social influence and emotions affected their adherence to treatment. The intervention helped patients adhere through reinforcement, behavioural regulation, providing knowledge and social influence.
Garavalia L, Garavalia B, Spertus JA, Decker C.	2009	USA	Explore reasons for stopping clopidogrel or cholesterol lowering medication in post-AMI patients	Semi-structured interview	Framework analysis, coding according to Health Belief Model	11	Post AMI patients, who either discontinued clopidogrel (45-77 years, 18% minority ethnic, 36% female), or cholesterol lowering medication n=29 (44-78 years, 19%	Cholesterol lowering medication mostly stopped due to side effects, treatment confusion, cost and mistrust of medicines. Clopidogrel stopped mostly due to duration confusion, side effects and cost.

							minority ethnic, 56% female).	
Garavalia L, Ho PM, Garavalia B, Foody JM, Kruse H, Spertus JA, Decker C.	2011	USA	Describe patient and professional perspectives on why clopidogrel stopped after stent implantation	Semi-structured interview	Content analysis	22	Patients with stent following MI, given clopidogrel. Comparison of discontinuers vs. continuers. 45-77 years, mostly male and Caucasian.	Patients perceived lack of knowledge of duration and purpose of clopidogrel treatment. Poor communication between clinicians and clinicians to patient, cost of clopidogrel and poor transfer of care between inpatient to outpatient were stated as barriers.
Hanna A, Yael EM, Hadassa L, Iris E, Eugenia N, Lior G, Carmit S, Liora O.	2019	Israel	To gain patient perception of health-related adherence behaviours post-AMI	Semi-structured interview	Content analysis	22	Patients recruited from a hospital rehab programme, or through community setting, a Jewish Kibbutz and Arab community (20 men, 2 women).	Adherence motivation was facilitated or impinged by inherent factors – willpower, competency and individual preferences. Extrinsic factors were found to be the threat of a recurrent AMI, family and significant others, and healthcare
Hilt AD, Mamaqi Kapllani K, Hierck BP, Kemp AC, Albayrak A, Melles M, Schaliy MJ, Scherptong RWC	2020	Netherlands	Understand how patients perceive information provided to them post AMI.	Semi-structured interview	Content analysis, patient journey mapping	12	Patients (9 men, 3 women), and professionals n=6 (3 men, 3 women). Average patient age 62.7 years. STEMI n=10, NSTEMI n=2.	Patients said information provided was too extensive. They perceived medication as a hurdle to recovery, mainly due to side effects, but coupled with an unclear benefit of medication. Their knowledge of anatomy was poor.
Jalal Z, Antonio S, Taylor D, Paudyal V, Finlay K, Smith F	2019	UK	Investigate beliefs and experiences of CHD and medicine-taking behaviour in post-	Mixed methods - (Morisky scale, Belief About Medicines Questionnaire.)	Framework approach	13	South Asian patients attending a London heart attack centre (13 men, 1 woman). 32-72 years.	Most patients perceived medication as important for their health. Half the patients could explain what their medications were for, half relied on family or professionals for this knowledge. Factors that influenced adherence were forgetfulness, family

			AMI patients	semi-structured interview				support, side effects, a healthcare practitioner, social deprivation and cardiac rehabilitation.
Presseau J, Schwalzm JD, Grimshaw JM, Witteman HO, Natarajan MK, Linklater S, Sullivan K, Ivers NM.	2017	France	To compare the usefulness of varying behavioural theory based interventions for improving medication adherence in post-AMI patients	Semi structured interview (Questionnaire based upon Likert scale)	Framework approach based upon Theoretical Domains Framework	24	Patients contacted at 0-2 weeks, 3-12 weeks, 13-24 weeks and 25-36 weeks post-AMI.	Key factors were beliefs about the consequences of taking medicines, memory, attention or decision processes, behavioural regulation, social role and role of identity.

Supplement C: Quality Assessment of Included Studies using COREQ standards

Key: Present (+), Absent (-)

Authors	Interviewer	Credentials	Occupation	Gender	Experience	Relationship est.	Participant knowledge	Interviewer characteristic
Attebring et al., (2005)	-	-	-	-	-	-	-	-
Decker et al., (2008)	-	-	-	-	-	+	-	-
Desveaux et al., (2020)	-	-	-	-	-	-	+	-
Garavalia L, Garavalia B et al., (2009)	-	-	-	-	-	+	+	-
Garavalia L, Ho et al., (2011)	-	-	-	-	-	-	-	-
Hanna et al., (2019)	-	-	-	-	-	+	+	-
Hilt et al., (2020)	-	-	-	-	-	-	-	-
Jalal et al., (2019)	-	-	-	-	-	+	+	-
Presseau et al., (2017)	-	-	-	-	-	+	-	-

Authors	Methodological theory	Sampling	Method approach	Sample size	Non-participation	Setting	Presence of other	Description of sample
Attebring et al., (2005)	+	+	+	+	+	+	-	+
Decker et al., (2008)	+	+	+	+	-	+	-	+
Desveaux et al., (2020)	+	+	+	+	+	+	-	+

Garavalia L, Garavalia B et al., (2009)	+	+	+	+	+	+	-	+
Garavalia L, Ho et al., (2011)	+	+	+	+	-	+	-	+
Hanna et al., (2019)	+	+	+	+	-	+	-	+
Hilt et al., (2020)	+	+	+	+	-	-	-	+
Jalal et al., (2019)	+	+	+	+	-	+	-	+
Presseau et al., (2017)	+	+	+	+	+	-	-	+

Authors	Interview guide	Repeat interviews	A/V recording	Field notes	Duration	Data saturation	Transcript returned	No. coders
Attebring et al., (2005)	-	-	+	-	+	-	-	+
Decker et al., (2008)	+	-	+	-	+	+	-	+
Desveaux et al., (2020)	+	-	+	-	-	+	-	+
Garavalia L, Garavalia B et al., (2009)	+	-	+	-	+	+	-	+
Garavalia L, Ho et al., (2011)	+	-	+	-	+	+	-	+
Hanna et al., (2019)	+	-	+	+	+	+	-	+
Hilt et al., (2020)	+	-	-	-	-	-	-	-
Jalal et al., (2019)	+	-	+	-	+	-	-	+

Presseau et al., (2017)	+	-	-	-	-	+	-	-
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Authors	Coding tree	Derivation of themes	Software	Participant checking	Quotations	Data and findings match	Clarity major themes	Clarity minor themes
Attebring et al., (2005)	+	+	-	-	+	+	+	+
Decker et al., (2008)	+	+	+	-	+	+	+	+
Desveaux et al., (2020)	+	+	-	-	+	+	+	+
Garavalia L, Garavalia B et al., (2009)	+	+	-	-	+	+	+	+
Garavalia L, Ho et al., (2011)	+	+	+	-	+	+	+	+
Hanna et al., (2019)	+	+	-	-	+	+	+	+
Hilt et al., (2020)	-	-	-	-	+	+	+	-
Jalal et al., (2019)	+	+	-	-	+	+	+	+
Presseau et al., (2017)	+	+	-	-	+	+	+	-

Authors	Total + (ex. 32)
Attebring et al., (2005)	16
Decker et al., (2008)	19
Desveaux et al., (2020)	18
Garavalia L,	20

Garavalia B et al., (2009)	
Garavalia L, Ho et al., (2011)	18
Hanna et al., (2019)	20
Hilt et al., (2020)	9
Jalal et al., (2019)	18
Presseau et al., (2017)	14

Supplement D: Themes Provided by Authors of Included Studies

Study Authors	Method of Analysis	Themes Summarised
Attebring et al., (2005)	Hermeneutical Analysis	Beliefs about consequences
		Memory/ Attention/ Decision processes
		Behavioural regulation
		Social influence
		Social/ Professional role and identity
Decker et al., (2008)	Content Analysis	Failure to recognise signs and symptoms of disease
		Seen as not serious
		Believe health is good
		Inaccurate perception
		Denial
		Worsening condition
		Family history/ Fatalism
		Lack of continuity
		Lack of / poor communication
		Inadequate patient education
		Self medicating
		Mistrust
		Side effects
		Unhealthy lifestyle choices
		Economic burden
		Lack of knowledge
		Personal health feelings and beliefs
Lack of effective communication		
Unaware of cardiac rehabilitation		
Lack of prompts from family and friends		
Missed general cues		
Desveaux et al., (2020)	Theoretical Domains Framework	Beliefs about capabilities
		Beliefs about consequences (positive outcomes)
		Social influences (pre-existing beliefs)
		Behavioural regulation
		Reinforcement
		Knowledge
		Social influence (having knowledge)

		Beliefs about consequences (negative outcomes)
		Emotion
		Identity
		Memory, attention, decision making
Garavalia L, Garavalia B et al., (2009)	Heath Belief Model	Similarities: Cost Side Effects Distrust of Doctors Prescription confusion
		Reduced sense of threat of disease with CLT, higher with clopidogrel
		CLT knowledgeable yet discontinued
		Clopidogrel less knowledge
		Use of 'natural' lifestyle measures in CLT, none reported with clopidogrel
Garavalia L, Ho et al., (2011)	Content Analysis	Lack of knowledge
		Poor communication
Hanna et al., (2019)	Content Analysis	Willpower
		A sense of competency
		Personal preferences
		Recurrent event
		Family and relatives
		Healthcare providers
Hilt et al., (2020)	Content Analysis	Medicine perceived as a barrier to recovery
Jalal et al., (2019)	Content Analysis	Necessity versus concerns
		Knowledge
		Forgetfulness
		Family support
		Side effects
		Relying of health practitioner
		Living in areas of deprivation
		Cardiac rehabilitation
Presseau et al., (2017)	Theoretical Domains Framework	Beliefs about consequences
		Memory / Attention / Decision processes
		Behavioural regulation
		Social influence
		Social / Professional role and identity