

Lampiran 2. Logbook Systematic Review

Date	Kegiatan	Keterangan
Nov 2017	Mind Map	Start to create mind map in coggle.com
Nov 20, 2017	HIS keywords	Mulai mencari kata kunci untuk HIS.
	Region keywords	Mendeteksi kemungkinan inclusion menggunakan region
Nov 24, 2017	Databases	Searching keyword
Nov 25 2017	Databases Pubmed	Finalisasi keywords di pubmed untuk kombinasi HIS dan “medical error”
	Databases Sciencedirect	Finalisasi keywords di sciencedirect HIS dan medical error
	Memilih review	Memilih review article → pindah ke folder rudi
	Mendownload review	Mendownload review article yg sudah dipindahkan ke folder rudi (tidak bisa terdownload semua, tidak terdeteksi di sci-hub)
Nov 26 2017	Reading some review articles	→ what article? what is ur finding? A systematic review of the types and causes of prescribing errors generated from using computerized provider order entry systems in primary and secondary Care → rangkuman sederhana (https://docs.google.com/document/d/1CJkArqchocdz8wZ1LnEpUOUGcgBxXiKTb793L8Yyi9A)
		Clinical Decision Support Alert Appropriateness: A Review and Proposal for Improvement → rangkuman sederhana
Nov 27 2017	Menambahkan keyword HIS	→ electronic prescribing → melakukan editing pada pubmed → melakukan editing pada sciencedirect
	Menambah search engine	JSTOR → melakukan registrasi JSTOR → mempelajari sistem search di JSTOR → tidak jadi menggunakan JSTOR

	Finalisasi keyword	HISs dihapus impact effect dihapus + “drug problem” + “medication problem”
	Finalisasi keyword PUBMED	→ HIS + medication error : 941
	Finalisasi keyword Sciedencedirect	→ HIS + Medication error: 148
Dec 01 2017	Menambah search engine >> login http://e-resources.perpusnas.go.id scroll , kmd pilih ebsco dan proquest	<p>→ ebsco</p> <p>(“Hospital information system” OR “Medical Records Systems Computerized” OR “Electronic medical record” OR “Electronic medical records” OR “electronic prescribing” OR “Electronic Patient Record” OR EPR OR “Computerized Provider Order Entry” OR “Computerized Physician Order Entry” OR CPOE OR “Medical information system” OR “Patient monitoring system” OR “Picture archiving communication system” OR “Cardiology Information System” OR “Radiology information system” OR “Hospital management information system” OR “Clinical information system” OR “Clinical decision support” OR “Decision support system”) AND (“medication error” OR “medical error” OR “Adverse event” OR “adverse effect” OR “Adverse drug” OR “medication safety” OR “condition interaction” OR “drug-drug interaction” OR “wrong Dose” OR “alert categories” OR “prescription error” OR “drug problem” OR “medication problem”)</p> <p>Education research complete + middle eastern & central asian studies</p> <p>Search model: boolean Check: scholarly journals Publish date: august 1982 - november 2017</p>
		<p>→ proquest</p> <p>(“Hospital information system” OR “Medical Records Systems Computerized” OR “Electronic medical record” OR “Electronic medical records” OR “electronic prescribing” OR “Electronic Patient Record” OR EPR OR “Computerized Provider Order Entry” OR “Computerized Physician Order Entry” OR CPOE OR “Medical information system” OR “Patient monitoring system” OR “Picture archiving communication system” OR “Cardiology Information System” OR “Radiology information system” OR “Hospital management information system” OR “Clinical information system” OR “Clinical decision</p>

		<p>support" OR "Decision support system"</p> <p>AND</p> <p>"medication error" OR "medical error" OR "Adverse event" OR "adverse effect" OR "Adverse drug" OR "medication safety" OR "condition interaction" OR "drug-drug interaction" OR "wrong Dose" OR "alert categories" OR "prescription error" OR "drug problem" OR "medication problem"</p> <p>Cara menggabung: ke search history, lihat yg HIS dimana, misal S1; kmd lihat med error/cost/behavior dibagian mana, misal S2; kemudian di gabung dengan S1 AND S2</p> <p>Option yg dipilih: Peer reviewed,scholarly Journals, 1982-08-01 - 2017-11-30, article, hospitals, family health database or library science database</p>
Dec 2 2017	Finalisasi Pubmed	<p>→ 934 Journals</p> <p>((((((((((("medication error"[Title/Abstract]) OR "medical error"[Title/Abstract]) OR "Adverse event"[Title/Abstract]) OR "adverse effect"[Title/Abstract]) OR "impact effect"[Title/Abstract]) OR "Adverse drug"[Title/Abstract]) OR "medication safety"[Title/Abstract]) OR "drug-drug interaction"[Title/Abstract]) OR "wrong Dose"[Title/Abstract]) OR "alert categories"[Title/Abstract]) OR "prescription error"[Title/Abstract]) OR "drug problem"[Title/Abstract]) OR "medication problem"[Title/Abstract])) AND (((((((((((((("Hospital information system"[Title/Abstract]) OR "Medical Records Systems Computerized"[Title/Abstract]) OR "Electronic medical record"[Title/Abstract]) OR "Electronic medical records"[Title/Abstract]) OR EMR[Title/Abstract]) OR "Electronic Patient Record"[Title/Abstract]) OR EPR[Title/Abstract]) OR "Computerized Provider Order Entry"[Title/Abstract]) OR "Computerized Physician Order Entry"[Title/Abstract]) OR CPOE[Title/Abstract]) OR "Medical information system"[Title/Abstract]) OR "Patient monitoring system"[Title/Abstract]) OR "Picture archiving communication system"[Title/Abstract]) OR "Cardiology Information System"[Title/Abstract]) OR "Radiology information system"[Title/Abstract]) OR "Hospital management information system"[Title/Abstract]) OR "Clinical information system"[Title/Abstract]) OR "Clinical decision support"[Title/Abstract]) OR "Decision support system"[Title/Abstract]) OR "Electronic Prescribing" [Title/Abstract])</p>

		Filters: Publication date from 1982/08/01 to 2017/11/30
	Finalisasi science direct	<p>→ 43 Journals</p> <p>Advance search → journals → Expert search</p> <p>(“Hospital information system” OR “Medical Records Systems Computerized” OR “Electronic medical record” OR “Electronic medical records” OR “electronic prescribing” OR “Electronic Patient Record” OR EPR OR “Computerized Provider Order Entry” OR “Computerized Physician Order Entry” OR CPOE OR “Medical information system” OR “Patient monitoring system” OR “Picture archiving communication system” OR “Cardiology Information System” OR “Radiology information system” OR “Hospital management information system” OR “Clinical information system” OR “Clinical decision support” OR “Decision support system”) AND (“medication error” OR “medical error” OR “Adverse event” OR “adverse effect” OR “Adverse drug” OR “medication safety” OR “condition interaction” OR “drug-drug interaction” OR “wrong Dose” OR “alert categories” OR “prescription error” OR “drug problem” OR “medication problem”)</p> <p>Filters: Publication date from 1982 to present Article, review article, short communication</p>
	Finalisasi Ebscohost	<p>→ 134 Journals</p> <p>Perpusnas → ebscohost journals → check all → advance search, setting: Boolean August 1982 - nov 2017 Source type: Academic journals</p> <p>(“Hospital information system” OR “Medical Records Systems Computerized” OR “Electronic medical record” OR “Electronic medical records” OR “electronic prescribing” OR “Electronic Patient Record” OR EPR OR “Computerized Provider Order Entry” OR “Computerized Physician Order Entry” OR CPOE OR “Medical information system” OR “Patient monitoring system” OR “Picture archiving communication system” OR “Cardiology Information System” OR “Radiology information system” OR “Hospital management information system” OR “Clinical information system” OR “Clinical decision support” OR “Decision support system”) AND (“medication error” OR “medical error” OR “Adverse event” OR “adverse effect” OR “Adverse drug” OR “medication safety” OR “condition interaction” OR “drug-drug interaction” OR “wrong Dose” OR “alert categories” OR “prescription error” OR “drug problem” OR “medication problem”)</p>
	Finalisasi Proquest	<p>→ 107 Journals</p> <p>Filters: Peer reviewed, scholarly Journals, 1982-08-01 - 2017-11-30, Article, Hospitals,</p>

		Family health database or library science database ("Hospital information system" OR "Medical Records Systems Computerized" OR "Electronic medical record" OR "Electronic medical records" OR "electronic prescribing" OR "Electronic Patient Record" OR EPR OR "Computerized Provider Order Entry" OR "Computerized Physician Order Entry" OR CPOE OR "Medical information system" OR "Patient monitoring system" OR "Picture archiving communication system" OR "Cardiology Information System" OR "Radiology information system" OR "Hospital management information system" OR "Clinical information system" OR "Clinical decision support" OR "Decision support system") AND ("medication error" OR "medical error" OR "Adverse event" OR "adverse effect" OR "Adverse drug" OR "medication safety" OR "condition interaction" OR "drug-drug interaction" OR "wrong Dose" OR "alert categories" OR "prescription error" OR "drug problem" OR "medication problem")																		
Dec 9 2017	Melakukan save hasil search ke zotero	Save hasil search dan melakukan backup (internal dan google drive)																		
	Clean up duplicate items di zotero (cara sesuai systematic review pak winny di web)	<table border="1"> <thead> <tr> <th>Database</th><th>Pre</th><th>Post</th></tr> </thead> <tbody> <tr> <td>Pubmed</td><td>934</td><td>844</td></tr> <tr> <td>Sciedirect</td><td>43</td><td>43</td></tr> <tr> <td>Ebsco</td><td>134</td><td>54</td></tr> <tr> <td>Proquest</td><td>107</td><td>107</td></tr> <tr> <td>All Search</td><td>1247</td><td>1043 (-5 manual delete)</td></tr> </tbody> </table>	Database	Pre	Post	Pubmed	934	844	Sciedirect	43	43	Ebsco	134	54	Proquest	107	107	All Search	1247	1043 (-5 manual delete)
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Ebsco	134	54																		
Proquest	107	107																		
All Search	1247	1043 (-5 manual delete)																		
	Mulai Step 1 Screening Journals	Memilih Journals dan di masukkan ke folder masing2, pada step 1; foldernya adalah: <ul style="list-style-type: none"> • 01 Non-English • 02 Review Paper • 03 delete - by title • 04 delete - by abstract Jika sudah dimasukkan ke folder yg sesuai, file yg di "all" di delete																		
	01 Delete by title	344 journals Moved to this folder																		

	02 Non-English	30 journals Moved to this folder																																																				
Dec 10 2017	03 Review Paper	25 paper deleted by title																																																				
	Sisa	643 Journals																																																				
	Manual delete	<ul style="list-style-type: none"> 1. Factors influencing alert acceptance: a novel approach for predicting the success of clinical decision support. 2. Interventions to optimise prescribing for older people in care homes 3. Medication errors in children 4. The impact of computerized physician order entry on medication error prevention 5. Medical error in children 																																																				
	Delete by abstract	<table border="1" data-bbox="1024 600 1643 1400"> <thead> <tr> <th>Alphabets</th> <th>YES</th> <th>MAYBE</th> <th>NO</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>A</td> <td>45</td> <td>0</td> <td>40</td> </tr> <tr> <td>B</td> <td>2</td> <td>0</td> <td>4</td> </tr> <tr> <td>C</td> <td>54</td> <td>0</td> <td>14</td> </tr> <tr> <td>D</td> <td>29</td> <td>0</td> <td>35</td> </tr> <tr> <td>E</td> <td>33</td> <td>0</td> <td>40</td> </tr> <tr> <td>F</td> <td>7</td> <td>0</td> <td>2</td> </tr> <tr> <td>G</td> <td>3</td> <td>0</td> <td>3</td> </tr> <tr> <td>H</td> <td>4</td> <td>0</td> <td>10</td> </tr> <tr> <td>I</td> <td>38</td> <td>0</td> <td>25</td> </tr> <tr> <td>J</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>K</td> <td>1</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Alphabets	YES	MAYBE	NO	5	0	0	1	A	45	0	40	B	2	0	4	C	54	0	14	D	29	0	35	E	33	0	40	F	7	0	2	G	3	0	3	H	4	0	10	I	38	0	25	J	0	0	0	K	1	0	0
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J	0	0	0																																																			
K	1	0	0																																																			

L	1	0	3
M	19	0	16
N	5	0	4
O	3	0	1
P	33	0	14
Q	0	0	0
R	12	0	8
S	7	0	7
T	31	0	13
U	12	0	11
V	3	0	0
W	3	0	0
X	0	0	0
Y	0	0	0
Z	0	0	0
Total	346	0	251

$$346+251 = 597$$

Review paper = 23

Non Jurnal = 21

Lain-lain = 2

Total semua: 643

Jan 1 2018		Sempat mengalami perbedaan jumlah angka jurnal sebelum dan setelah di lakukan sortir (selisih 3 jurnal), namun kemudian dengan menggunakan fitur combine di ms. word; ketiga jurnal berhasil ditemukan
Jan 1 2018	Saving full article of 346 titles	<p>Proses pencarian:</p> <p>Klik link dari zotero; kemudian melihat apakah ada full text atau tidak</p> <p>Jika full text, langsung di save</p> <p>Jika tidak, lihat langganan jurnal UMY/Perpusnas, akses dari sana.</p> <p>Di lakukan save di memory laptop, dengan menamai jurnal sesuai nama nya;</p> <p>Dalam penyimpanan, akan terjadi error jika ada tanda “.”, dilakukan penyesuaian judul agar tidak error.</p> <p>Jika tautan mengarah ke proquest → saya melakukan login dengan akun proquest dikt (yang tersebar di kampus)</p> <p>Jurnal yang tidak bisa di download:</p> <ol style="list-style-type: none"> 1. A knowledge engineering framework towards clinical support for adverse drug event prevention: the PSIP approach 2. A system to improve medication safety in the setting of acute kidney injury: initial provider response. 3. Active pharmacovigilance and healthcare utilization (PMID:23198749) 4. An Ontology-based Mediator of Clinical Information for Decision Support Systems 5. Clinical decision support to avoid adverse drug events with anticoagulants. (PMID:18693975) 6. CPOE systems: success factors and implementation issues. (PMID: 14971078) 7. Data Requirements for the Correct Identification of Medication Errors and Adverse Drug Events in Patients Presenting at an Emergency Department doi: 10.3414/ME16-01-0126 8. Design, implementation and evaluation of a clinical decision support system to prevent adverse drug events. (PMID:11187651) 9. Driving out errors through tight integration between software and automation. (PMID:17091788) 10. Drug Knowledge Expressed as Computable Semantic Triples DOI 10.3233/978-1-60750-740-6-38 11. E-prescription errors and their resolution in a community compounding pharmacy. PMID:24881120 12. Electronic prescribing: the risk of errors and adverse effects. PMID 26942261 13. Human factors considerations relevant to CPOE implementations. (PMID:16045087) 14. Implementation of a taxonomy aiming to support the design of a contextualised

		<p>clinical decision support system. (PMID:21685613)</p> <p>15. Information contextualization in decision support modules for adverse drug event prevention. (PMID:21685615)</p> <p>16. Introduction of electronic prescribing in an aged care facility. (PMID:15861754)</p> <p>17. IT, patient safety, and quality care. (PMID:11813520)</p> <p>18. Preventing technology-induced errors in healthcare: the role of simulation. (PMID:19380947)</p> <p>19. Proliferation of electronic health records among obstetrician-gynecologists. (PMID:16849986)</p> <p>20. Reasons provided by prescribers when overriding drug-drug interaction alerts</p> <p>21. The effect of computerized physician-order entry on outpatient prescription errors. (PMID:17458483)</p> <p>22. The effect of implementing computerized provider order entry on medication prescribing errors in an emergency department. (PMID:18693965)</p> <p>23. The impact of computerized physician order entry on medication errors and adverse drug events. (PMID:24199521)</p> <p>24. Towards a Standardised Representation of a Knowledge Base for Adverse Drug Event Prevention DOI 10.3233/978-1-60750-740-6-139</p> <p>25. Utility of an adverse drug event trigger tool in Veterans Affairs nursing facilities. (PMID:23395810 PMCID:pmc3677952)</p> <p>26. Will meaningful use electronic medical records reduce hospital costs? (PMID:24511884)</p>																
	Email the author	<p>Dari 26 jurnal yang tidak bisa didownload, didapatkan 10 jurnal dengan cara emailing the author</p> <table border="1"> <thead> <tr> <th>No</th><th>Judul Jurnal</th><th>Author's email</th><th>Status</th></tr> </thead> <tbody> <tr> <td>1</td><td>A knowledge engineering framework towards clinical support for adverse drug event prevention; the PSIP approach</td><td>stalidgi@mkt.teithe.gr george stalidis, Ph.D., M.Sc., Dipl.Eng.</td><td>Emailed Got It</td></tr> <tr> <td>2</td><td>A system to improve medication safety in the setting of acute kidney injury: initial provider response.</td><td>allison.b.mccoy@vumc.org Allison McCoy, Ph.D, M.S</td><td>Emailed No Response</td></tr> <tr> <td>3</td><td>Active pharmacovigilance and healthcare utilization (PMID:23198749)</td><td>info@marinwrite.com Dr. Alisa Klinger, Ph.D</td><td>Emailed No Response</td></tr> </tbody> </table>	No	Judul Jurnal	Author's email	Status	1	A knowledge engineering framework towards clinical support for adverse drug event prevention; the PSIP approach	stalidgi@mkt.teithe.gr george stalidis, Ph.D., M.Sc., Dipl.Eng.	Emailed Got It	2	A system to improve medication safety in the setting of acute kidney injury: initial provider response.	allison.b.mccoy@vumc.org Allison McCoy, Ph.D, M.S	Emailed No Response	3	Active pharmacovigilance and healthcare utilization (PMID:23198749)	info@marinwrite.com Dr. Alisa Klinger, Ph.D	Emailed No Response
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		4	An Ontology-based Mediator of Clinical Information for Decision Support Systems	kawazoe-tky@umin.ac.jp Yoshimasa Kawazoe M.D, Ph.D	Emailed No Response
		5	Clinical decision support to avoid adverse drug events with anticoagulants. (PMID:18693975)	DavidL@northwestern.edu David M. Liebovitz, MD dliebovi@uchicago.edu	Emailed Email wrong Emailed again Got it → not paper
		6	CPOE systems: success factors and implementation issues. (PMID: 14971078)	<u>patricia.r.sengstack@van derbilt.edu</u> Dr. Sengstack	Emailed Got It
		7	Data Requirements for the Correct Identification of Medication Errors and Adverse Drug Events in Patients Presenting at an Emergency Department doi: 10.3414/ME16-01-0126	Prof. Dr. habil. Thomas Bürkle thomas.buerkle@bfh.ch	Emailed Got It
		8	Design, implementation and evaluation of a clinical decision support system to prevent adverse drug events. (PMID:11187651)	<u>percy.nohama@pucpr.br</u> Dr. Percy Nohama	Emailed No Response
		9	Driving out errors through tight integration between software and automation. (PMID:17091788)	Mark Reifsteck, mreifsteck@compass-clinical.com	Emailed No Response
		10	Drug Knowledge Expressed as Computable Semantic Triples DOI 10.3233/978-1-60750-740-6-38	<u>elkin@buffalo.edu</u> <u>Peter L. Elkin, MD</u>	Emailed No Response
		11	E-prescription errors and their resolution in a community	<u>dana@reedsrx.com</u>	Emailed No Response

		compounding pharmacy. PMID:24881120	dana reed-kane Phram.D NFPPhC, FCP, FACA, FIACP	
12	Electronic prescribing: the risk of errors and adverse effects. PMID 26942261	[No authors listed]	Email not found	
13	Human factors considerations relevant to CPOE implementations. (PMID:16045087)	aprilnefferdorf7@hotmail.com Saathoff A	Emailed No Response	
14	Implementation of a taxonomy aiming to support the design of a contextualised clinical decision support system. (PMID:21685613)	s.debouronville@live.be Stephanie de Bouronville	Emailed No Response	
15	Information contextualization in decision support modules for adverse drug event prevention. (PMID:21685615)	julie.nies@medasys.com Julie nies staff@QuinnChildrensDentistry.com	Emailed Email salah Emailed again No Response	
16	Introduction of electronic prescribing in an aged care facility. (PMID:15861754)	Rohan A. Elliott rohan.elliott@monash.edu ;	Emailed No Response	
17	IT, patient safety, and quality care. (PMID:11813520)	[No authors listed]	Email not found	
18	Preventing technology-induced errors in healthcare: the role of simulation. (PMID:19380947)	andrek@uvic.ca	Emailed No Response	
19	Proliferation of electronic health records among obstetrician-gynecologists. (PMID:16849986)	nir.menachemi@med.fsu.edu Menachemi N nirmena@iu.edu	Emailed Email salah Emailed again Got It	
20	Reasons provided by prescribers when overriding drug-drug interaction alerts	grizzle@pharmacy.arizona.edu Grizzle AJ	Emailed Got it	
21	The effect of computerized physician-order entry on outpatient prescription errors. (PMID:17458483)	varkey.prathibha@mayo.edu Varkey P	Emailed Email salah Emailed again No Response	

		<p>11 September 2019</p> <p>Untuk melihat kualitas jurnal--> exclusi 10 jurnal; jurnal:</p> <p>07- Comparison of two knowledge bases on the detection of drug-drug interactions: AMIA 14 Integration of heterogeneous clinical decision support systems and their knowledge sets~ feasibility study with drug-drug interaction alerts: AMIA 17 Medical Alert Management~ A Real-Time Adaptive Decision Support Tool to Reduce Alert Fatigue: AMIA 44 Improving Patient Safety by Modifying Provider Ordering Behavior Using Alerts (CDSS) in CPOE system: AMIA 10 Patient Safety and Computerized Medication Ordering at Brigham and Women's Hospital: Non-Scopus Indexed 20 Physician's expectations regarding prescribing clinical decision support systems in a Belgian hospital: Non-Scopus Indexed 29 The Epidemiology of Prescribing Errors~ The Potential Impact of Computerized Prescriber Order Entry: Non-Scopus Indexed 36 The Impact of computerized physician: Non-Scopus Indexed 43 High Rates of Adverse Drug Events in a Highly Computerized Hospital: Non-Scopus Indexed 45 Impact of a Web-Based Clinical Information System on Cisapride Drug Interactions and Patient Safety: Non-Scopus Indexed</p>
Februari 2020	Melakukan analisis dengan menggunakan NVIVO	Menentukan nodes, berdasar hal apa yang menarik dan ditemukan di jurnal-jurnal yang akan dianalisis
	Melakukan analisis jurnal	
	Mempersiapkan dan menulis Result	
	Mempersiapkan dan menulis Discussion	