

Multimedia Appendix 2. Evidence synthesis overview – including article details, and synopsis of each included review.

Study number (Reference)	Authors	Title	Year	Journal	Years of studies included	Number of studies in review	Patient or clinician oriented studies	Geography (countries covered in review)	Primary aim	Findings
1 (11)	Giardini	Patient access to medical records and healthcare outcomes: a systematic review	2014	Journal of the American Medical Informatics Association	1977-2012	27	Patient	USA & UK	To investigate the effect of RA on (1) measures of safety, (2) effectiveness (3) patient-centeredness (4) timeliness (5) efficiency (6) equity	(1) Mixed outcomes, with 50% of studies showing positive changes with RA, (2) RA appears to increase patients perceptions of control
2 (13)	Nguyen	Electronic health records implementation: An evaluation of information system impact and contingency factors	2014	International Journal of Medical Informatics	2001-2011	98	Patient	Mixed **	To review EHR benefits and issues associated with EHR implementation.	(1) A mix of positive and negative impacts of EHR was found across different evaluation dimensions. (2) A number of contingent factors were found to contribute to successful implementation of EHR.
3 (35)	Amante	A Systematic Review of Electronic Portal Usage Among Patients with Diabetes	2014	Diabetes, Technology & Therapeutics	2005-2014	16	Patient	USA	(1) Examine characteristics associated with enrollment and utilization of portals among patients with diabetes; (2) Identify barriers and facilitators of electronic patient portal enrollment and utilization	Barriers to enrollment included a lack of patient (1) capacity and (2) desire. Barriers to portal utilization included (1) patient capacity and (2) lack of provider and patient buy-in to portal benefits. Facilitators included provider and family recommendation.
4 (16)	de Lusignan	Patients' online access to their electronic health records and linked online services: a systematic interpretative review	2014	BMJ Open	Not specified	143	Both	Mixed	To identify and understand (1) barriers and facilitators for providing online RA; and (2) their association with organisational/IT system issues.	(1) Patient online access and services offer increased convenience and satisfaction. However (2) professionals were concerned about impact on workload and risk to privacy.

** USA = 62; Denmark and England = 5; Norway = 4; Canada = 3; Australia, Holland, Ireland and Israel = 2; Austria, Cyprus, France, Serbia, Sweden, Japan, Korea, Kuwait, Cameron, Uganda = 1; Cross-country: 1 (Sweden and USA)							
*** England = 5; Netherlands = 4; Canada = 1; New Zealand = 1; Scotland = 1; Wales = 1							
§ Excluded reviews from the scoring system analysis							