Online Supplemental Materials

Supplemental Digital [Appendix 1. Search strategy used in a scoping review of electronic knowledge resources and point-of-care learning, 1991-2017 2](#_Toc513191516)

[Supplemental Digital Appendix 2. List of all studies included in a scoping review of electronic knowledge resources and point-of-care learning, 1991-2017 7](#_Toc513191517)

# Supplemental Digital Appendix 1

# Search Strategy Used in a Scoping Review of Electronic Knowledge Resources and Point-of-Care Learning, 1991-2017a

Database(s): Embase 1988 to 2017 Week 07, PsycINFO 1806 to February Week 1 2017, EBM Reviews - Cochrane Central Register of Controlled Trials January 2017, Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present
Search Strategy:

|  |  |  |
| --- | --- | --- |
| **#** | **Searches** | **Results** |
| 1 | exp Point-of-Care Systems/ | 10567 |
| 2 | (learn\* or educat\* or seek\* or reflect\*).ti,ab,hw,kw. | 4590843 |
| 3 | 1 and 2 | 1015 |
| 4 | exp Information Seeking Behavior/ | 3467 |
| 5 | ((("work place" or workplace or "just in time" or "practice-based" or "clinical practice") adj3 learn\*) or (((electronic or computer) adj1 alert\*) and (educat\* or learn\*)) or ((reflect\* or learn\*) adj2 practice) or (information adj1 seek\*) or (learn\* adj3 ("point of care" or "point of visit\*" or "clinical encounter\*" or "practice encounter\*" or "clinical practice")) or "information need" or "knowledge need" or "patient-directed learning").ti,ab,hw,kw. | 33072 |
| 6 | 3 or 4 or 5 | 34051 |
| 7 | (("clinical evidence" and BMJ) or ("EBM Guidelines" and Wiley) or (Isabel adj5 (diagnos\* or healthcare)) or "5-minute clinical consult" or "5-minuteclinical consult" or AskMayoExpert or BestBETs or CKS or clineguide or "clinical question-answering service" or ClinicalKey or "Crtitical Appraisal Resource" or diseasedex or dynamed or "EBM Solutions" or EBMguidelines or emedicine or epocrates or "essential evidence" or "eTG complete" or "evidence matters" or "evidence-based answering service" or "First Consult" or firstconsult or "Google as a diagnostic aid" or "GP Notebook" or "grateful med" or "Harrisons Practice" or "Health Gate" or "Healthgate Clinical Guidelines" or infopoems or inforetriever or "Map of Medicine" or MAXX or "McMaster Premium Literature Service" or "McMaster-Plus" or MDChoice\* or mdconsult or "md-consult" or micromedex or "national guideline clearinghouse" or "Online health knowledge resource\*" or Pepid or PIER or "Quick Clinical" or RxNorm or SCAMPS or "Smart Medicine" or "Standardized Clinical Assessment and Management Plans" or "Stat Ref" or StatRef or "Technical Article Summarizer" or UpToDate or zynx or ZynxEvidence).ti,ab,hw,kw. | 7091 |
| 8 | exp rxnorm/ | 83 |
| 9 | Drug Information Services/ | 24364 |
| 10 | Information Services/ | 29024 |
| 11 | knowledge bases/ | 7768 |
| 12 | exp Textbooks as Topic/ | 65769 |
| 13 | (((bibliographic\* or factual or reference or knowledge) adj3 database\*) or "clinical resource\*" or "diagnostic aid" or "diagnostic aids" or "five-minute clinical consult\*" or "health resource\*" or "information resource\*" or "information service\*" or "knowledge base\*" or "knowledge resource\*" or "knowledge support system\*" or knowledgebase\* or "medical database\*" or "medical text" or "medical texts" or "online evidence" or "reference book\*" or "text summarization\*" or textbook\*).ti,ab,hw,kw. | 257063 |
| 14 | Internet/ | 185542 |
| 15 | exp Computers, Handheld/ | 5147 |
| 16 | exp Cell Phones/ or exp Smartphone/ | 27471 |
| 17 | (Android or "cell phone\*" or cellphone\* or computer\* or digital\* or electronic or Google or internet or Ipad or Ipads or laptop\* or microcomputer\* or "Microsoft Surface" or "mobile device\*" or online or "on-line" or PDA or PDAs or "personal digital assistant\*" or "smart phone\*" or smartphone\* or tablet or tablets or web or wireless\*).ti,ab,hw,kw. | 3339366 |
| 18 | or/14-17 | 3345976 |
| 19 | or/8-13 | 334640 |
| 20 | 18 and 19 | 88576 |
| 21 | 6 or 7 or 20 | 128019 |
| 22 | exp Physicians/ | 916026 |
| 23 | exp Nurse Practitioners/ | 36531 |
| 24 | exp advanced practice nurse/ | 29642 |
| 25 | exp nurse anesthetists/ | 4494 |
| 26 | exp Physician Assistants/ | 9985 |
| 27 | exp Students, Medical/ | 78565 |
| 28 | exp psychologist/ | 75395 |
| 29 | exp PSYCHOLOGISTS/ | 92890 |
| 30 | (((physician\* or doctor\*) adj1 (assistant\* or extender\*)) or "advanced practice nurse\*" or Allergist\* or Anaesthesiologist\* or Andrologist\* or Anesthesiologist\* or Audiologist\* or cardiologist\* or clinician\* or dermatologist\* or doctor\* or endocrinologist\* or Epidemiologist\* or "family practitioner\*" or feldsher\* or fellow or fellows or gastroenterologist\* or gastrologist\* or "general practitioner\*" or Geneticist\* or geriatrician\* or gerontologist\* or Gynecologist\* or Hematologist\* or Hepatologist\* or hospitalist\* or Immunologist\* or "Infectious Disease Specialist\*" or "Internal Medicine Specialist\*" or Internist\* or "medical student\*" or Microbiologist\* or Neonatologist\* or nephrologist\* or neurologist\* or Neurophysiologist\* or neurosurgeon\* or "nurse anaesthetist\*" or "nurse anesthetist\*" or "nurse practitioner\*" or "nurse specialist\*" or obstetrician\* or oncologist\* or Ophthalmologist\* or Orthopedist\* or otolaryngologist\* or pathologist\* or Pediatrician\* or Physiatrist\* or physician\* or Physiologist\* or podiatrist\* or practitioner\* or Primatologist\* or provider\* or Psychiatrist\* or psychologist\* or Pulmonologist\* or radiologist\* or resident\* or rheumatologist\* or surgeon\* or urologist\*).ti,ab,hw,kw. | 3694104 |
| 31 | or/22-30 | 3773177 |
| 32 | 21 and 31 | 32726 |
| 33 | exp Treatment Outcome/ | 2196335 |
| 34 | exp "Cost Savings"/ or exp "Costs and Cost Analysis"/ | 555167 |
| 35 | exp Cost-Benefit Analysis/ | 146078 |
| 36 | exp personal satisfaction/ | 203548 |
| 37 | exp physician attitude/ | 45686 |
| 38 | exp Clinical Competence/ | 126418 |
| 39 | exp Practice Patterns, Physicians'/ | 309144 |
| 40 | exp Time Factors/ | 1151929 |
| 41 | (((needs or seek\*) adj3 information) or (impact\* adj3 (patient\* or clinical)) or (knowledge adj3 (acquir\* or aquisition\*)) or (practice adj3 (pattern\* or characteristic\*)) or "clinical competenc\*" or "clinical impact" or cost or costs or design\* or economic\* or implement\* or outcome\*).ti,ab,hw,kw. | 10122368 |
| 42 | ((((physician\* or doctor\*) adj1 (assistant\* or extender\*)) or "advanced practice nurse\*" or Allergist\* or Anaesthesiologist\* or Andrologist\* or Anesthesiologist\* or Audiologist\* or cardiologist\* or clinician\* or dermatologist\* or doctor\* or endocrinologist\* or Epidemiologist\* or "family practitioner\*" or feldsher\* or fellow or fellows or gastroenterologist\* or gastrologist\* or "general practitioner\*" or Geneticist\* or geriatrician\* or gerontologist\* or Gynecologist\* or Hematologist\* or Hepatologist\* or hospitalist\* or Immunologist\* or "Infectious Disease Specialist\*" or "Internal Medicine Specialist\*" or Internist\* or "medical student\*" or Microbiologist\* or Neonatologist\* or nephrologist\* or neurologist\* or Neurophysiologist\* or neurosurgeon\* or "nurse anaesthetist\*" or "nurse anesthetist\*" or "nurse practitioner\*" or "nurse specialist\*" or obstetrician\* or oncologist\* or Ophthalmologist\* or Orthopedist\* or otolaryngologist\* or pathologist\* or Pediatrician\* or Physiatrist\* or physician\* or Physiologist\* or podiatrist\* or practitioner\* or Primatologist\* or Psychiatrist\* or psychologist\* or Pulmonologist\* or radiologist\* or resident\* or rheumatologist\* or surgeon\* or urologist\*) adj5 (behavior\* or knowledge or satisf\* or skill or time or competenc\*)).ti,ab,hw,kw. | 172913 |
| 43 | or/33-42 | 11443773 |
| 44 | 32 and 43 | 21518 |
| 45 | exp controlled study/ | 5679967 |
| 46 | exp Randomized Controlled Trial/ | 911991 |
| 47 | exp comparative study/ | 2731106 |
| 48 | exp intervention studies/ | 43750 |
| 49 | exp Cross-Over Studies/ | 126613 |
| 50 | exp Cohort Studies/ | 2064313 |
| 51 | exp longitudinal study/ | 331007 |
| 52 | exp retrospective study/ | 1151270 |
| 53 | exp prospective study/ | 912978 |
| 54 | exp observational study/ | 161127 |
| 55 | exp clinical trial/ | 2061411 |
| 56 | clinical study/ | 225760 |
| 57 | exp Evaluation Studies/ | 261599 |
| 58 | exp qualitative research/ | 90932 |
| 59 | exp Grounded Theory/ | 10365 |
| 60 | (((observation or observational) adj (study or survey or analysis)) or ((study or trial or random\* or control\*) and compar\*) or (constant adj1 (comparative or comparison)) or (control\* adj3 study) or (control\* adj3 trial) or (grounded adj (theor\* or study or studies or research or analys\*)) or (intervention\* adj2 study) or (intervention\* adj2 trial) or (randomised adj3 study) or (randomised adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or (them\* adj1 analys\*) or "clinical study" or "clinical trial" or cohort\* or "comparative analysis" or "comparative study" or "comparative survey" or "content analys\*" or crossover or "cross-over" or "discourse analys\*" or ethnograph\* or "evaluation analysis" or "evaluation study" or "evaluation survey" or interview or "longitudinal analysis" or "longitudinal evaluation" or "longitudinal study" or "longitudinal survey" or "mixed method" or "narrative analys\*" or phenomenol\* or "pragmatic clinical trial" or "pre-post" or "qualitative analysis" or "qualitative design" or "single-group" or thematic or ((retrospective or "ex post facto") adj3 (study or survey or analysis or design)) or "prospective study" or "prospective survey" or "prospective analysis" or "prospective design").ti,ab,hw,kw,pt. | 16662090 |
| 61 | or/45-60 | 17491787 |
| 62 | 44 and 61 | 9564 |
| 63 | ((Android or "cell phone\*" or cellphone\* or computer\* or digital\* or electronic or Google or internet or Ipad or Ipads or laptop\* or microcomputer\* or "Microsoft Surface" or "mobile device\*" or online or "on-line" or PDA or PDAs or "personal digital assistant\*" or "smart phone\*" or smartphone\* or tablet or tablets or web or wireless\*) adj3 (((bibliographic\* or factual or reference or knowledge) adj3 database\*) or "clinical resource\*" or "diagnostic aid" or "diagnostic aids" or "five-minute clinical consult\*" or "health resource\*" or "information resource\*" or "information service\*" or "knowledge base\*" or "knowledge resource\*" or "knowledge support system\*" or knowledgebase\* or "medical database\*" or "medical text" or "medical texts" or "online evidence" or "reference book\*" or "text summarization\*" or textbook\*)).ti,ab,hw,kw. | 8123 |
| 64 | ("Clinical practice learning" or "evidence based learning" or "Information seeking" or "just in time education" or "Just in time learning" or "learning evidence based medicine" or "learning in clinical practice" or "Learning in practice" or "learning in the work place" or "learning in the workplace" or "Patient-directed learning" or "Point of care education" or "point of care information reference\*" or "Point of care learning" or "Point of care reflection" or "Point of care seeking" or "Practice-based learning" or "Reflection on learning" or "work place learning" or "Workplace learning").ti,ab,hw,kw. | 14467 |
| 65 | 3 or 4 or 63 or 64 | 23422 |
| 66 | 31 and 65 | 7789 |
| 67 | 7 or 62 or 66 | 20940 |
| 68 | 67 not "conference abstract".pt. | 18666 |
| 69 | limit 68 to (editorial or erratum or letter or note or addresses or autobiography or bibliography or biography or blogs or comment or dictionary or directory or interactive tutorial or interview or lectures or legal cases or legislation or news or newspaper article or overall or patient education handout or periodical index or portraits or published erratum or video-audio media or webcasts) [Limit not valid in Embase,PsycINFO,CCTR,Ovid MEDLINE(R),Ovid MEDLINE(R) Daily Update,Ovid MEDLINE(R) In-Process,Ovid MEDLINE(R) Publisher; records were retained] | 396 |
| 70 | 68 not 69 | 18270 |
| 71 | limit 70 to yr="1991 -Current" | 17796 |
| 72 | limit 71 to yr="2014 -Current" | 4954 |
| 73 | remove duplicates from 72 | 3392 |
| 74 | limit 71 to yr="2010 -2013" | 4860 |
| 75 | remove duplicates from 74 | 3201 |
| 76 | limit 71 to yr="2005 -2009" | 3897 |
| 77 | remove duplicates from 76 | 2545 |
| 78 | 71 not (72 or 74 or 76) | 4085 |
| 79 | remove duplicates from 78 | 2624 |
| 80 | 73 or 75 or 77 or 79 | 11762 |

aFrom these 11,762 records we manually removed 925 additional duplicate records of the same citation, leaving 10,837 unique citations identified for screening.

# Supplemental Digital Appendix 2

# List of All Studies Included in a Scoping Review of Electronic Knowledge Resources and Point-of-Care Learning, 1991-2017

| **Citation** | **E-resources** | **Users** | **Clinical topic** | **Context** | **Location** | **Themes** |
| --- | --- | --- | --- | --- | --- | --- |
| Haynes, R. B., Ramsden, M. F., McKibbon, K. A. and Walker, C. J.. Online access to MEDLINE in clinical settings: impact of user fees. Bulletin of the Medical Library Association. 1991. 79:377-81. |  | MD, PG, MS | MedGen | RealPt | Canada | System |
| Lundsgaarde, H. P. and Moreshead, G. E.. Evaluation of a Computerized Clinical Information System (Micromedex). Proceedings - the Annual Symposium on Computer Applications in Medical Care. 1991:18-22. | MMX | MD, Pharm | Pharm | RealPt | USA | DecSuppt, Time |
| Ely, J. W., Burch, R. J. and Vinson, D. C.. The information needs of family physicians: case-specific clinical questions. Journal of Family Practice. 1992. 35:265-9. |  | MD | MedGen | RealPt | USA | Subgroup |
| Forsythe, D. E., Buchanan, B. G., Osheroff, J. A. and Miller, R. A.. Expanding the concept of medical information: an observational study of physicians' information needs. Computers & Biomedical Research. 1992. 25:181-200. |  | MD, PG, MS | MedGen | RealPt | USA | Education, POCL-process |
| Bacchus, C. M., Quinton, C., O'Rourke, K. and Detsky, A. S.. A randomized crossover trial of quick medical reference (QMR) as a teaching tool for medical interns. Journal of General Internal Medicine. 1994. 9:616-621. |  | PG | MedGen | Vignette | Canada | DecSuppt |
| Hersh, W. and Hickam, D.. Use of a multi-application computer workstation in a clinical setting. Bulletin of the Medical Library Association. 1994. 82:382-389. | Other | MD, PG | MedGen | RealPt | USA | POCL-process |
| Gorman, P. N. and Helfand, M.. Information seeking in primary care: how physicians choose which clinical questions to pursue and which to leave unanswered. Medical Decision Making. 1995. 15:113-9. |  | MD | MedGen, Peds | RealPt | USA | POCL-process |
| Redier, H., Daures, J. P., Michel, C., Proudhon, H., Vervloet, D., Charpin, D., Marsac, J., Dusser, D., Brambilla, C. and Wallaert, B.. Assessment of the severity of asthma by an expert system. Description and evaluation. American Journal of Respiratory & Critical Care Medicine. 1995. 151:345-52. | Other | MD | MedSpec | Accuracy | Europe | Info-content |
| Wood, F., Palmer, J., Ellis, D., Simpson, S. and Bacigalupo, R.. Information in primary health care. Health Libraries Review. 1995. 12:295-308. |  | MD | MedGen | Survey/Int | Europe | POCL-process, Barrier |
| Harned, R. K., 2nd, Patrick, L. E., Gay, B. B., Atkinson, G. O., Niemer, P. K., Wyly, J. B. and Clark, W. S.. Standard method of diagnosis versus use of a computer database in the evaluation of skeletal dysplasias. Pediatric Radiology. 1996. 26:887-90. | Other | MD | LabPath | Accuracy | USA | Info-content, Usage |
| Haux, R., Grothe, W., Runkel, M., Schackert, H. K., Windeler, H. J., Winter, A., Wirtz, R., Herfarth, C. and Kunze, S.. Knowledge retrieval as one type of knowledge-based decision support in medicine: results of an evaluation study. International Journal of Bio-Medical Computing. 1996. 41:69-85. | Other | MD, PG, MS, PA | MedGen | RealPt | Europe | Usage, Subgroup |
| Safran, C., Rind, D. M., Sands, D. Z., Davis, R. B., Wald, J. and Slack, W. V.. Development of a knowledge-based electronic patient record. MD Computing. 1996. 13:46-54. | Other | MD, PG | MedSpec | RealPt | USA | Usage, Subgroup |
| Georget, S., Lederlin, C., Manciaux, M. A., Labrude, M. and Hoffman, M.. Comparison of drug interaction data bases. [French]. Journal de Pharmacie Clinique. 1997. 16:36-44. | MMX, Other | Invest | Pharm | Accuracy | Europe | Info-content |
| Gadd, C. S., Baskaran, P. and Lobach, D. F.. Identification of design features to enhance utilization and acceptance of systems for Internet-based decision support at the point of care. Proceedings / AMIA. 1998. Annual Symposium. 1998:91-95. | Other | MD, PG | MedGen | Vignette | USA | Usage |
| Wang, S., Xie, J., Sada, M., Doherty, T. M. and French, W. J.. TACHY: an expert system for the management of supraventricular tachycardia in the elderly. American Heart Journal. 1998. 135:82-7. | Other | MD | MedSpec | Accuracy, RealPt | USA | Info-content |
| Abraham, V. A., Friedman, C. P., Wildemuth, B. M., Downs, S. M., Kantrowitz, P. J. and Robinson, E. N.. Student and faculty performance in clinical simulations with access to a searchable information resource. Proceedings / AMIA. 1999. Annual Symposium. 1999:648-52. | Other | MD, MS | MedSpec | Vignette | USA | DecSuppt |
| D'Alessandro, M. P., Nguyen, B. C. and D'Alessandro, D. M.. Information needs and information-seeking behaviors of on-call radiology residents. Academic Radiology. 1999. 6:16-21. |  | PG | LabPath | RealPt | USA | POCL-process, Barrier, Subgroup |
| Graber, M. A., Bergus, G. R. and York, C.. Using the World Wide Web to answer clinical questions: how efficient are different methods of information retrieval?. Journal of Family Practice. 1999. 48:520-4. | MDCon, WebMD | Invest | MedGen | Accuracy | USA | Info-content |
| Koerner, S. D. and Becker, F.. Advances in Navy pharmacy information technology: accessing Micromedex via the Composite Healthcare Computer System and local area networks. Military Medicine. 1999. 164:481-4. | MMX | Other | Pharm | RealPt | USA | Time |
| Rasch, R. F. and Cogdill, K. W.. Nurse practitioners' information needs and information seeking: implications for practice and education. Holistic Nursing Practice. 1999. 13:90-7. |  | NP | MedGen | Survey/Int | USA | POCL-process |
| Slotnick, H. B.. How doctors learn: physicians' self-directed learning episodes. Academic Medicine. 1999. 74:1106-17. |  | MD | Other/NOS | Survey/Int | Canada | POCL-process |
| Cogdill, K. W., Friedman, C. P., Jenkins, C. G., Mays, B. E. and Sharp, M. C.. Information needs and information seeking in community medical education. Academic Medicine. 2000. 75:484-6. |  | MD, MS | MedGen, Peds | RealPt | USA | Education, POCL-process |
| Fozi, K., Teng, C. L., Krishnan, R. and Shajahan, Y.. A study of clinical questions in primary care. Med J Malaysia. 2000. 55:486-92. |  | PG | MedGen | RealPt | Asia | POCL-process |
| Alper, B. S., Stevermer, J. J., White, D. S. and Ewigman, B. G.. Answering family physicians' clinical questions using electronic medical databases. Journal of Family Practice. 2001. 50:960-5. | Dyna, MDCon, StafRef, TRIP, WebMD, Other | Invest | MedGen | Accuracy | USA | Info-content, Barrier |
| Gorman, P.. Information needs in primary care: a survey of rural and nonrural primary care physicians. Studies in Health Technology & Informatics. 2001. 84:338-42. |  | MD | MedGen, Peds | Survey/Int | USA | POCL-process, Subgroup |
| Enders, S. J., Enders, J. M. and Holstad, S. G.. Drug-information software for Palm operating system personal digital assistants: breadth, clinical dependability, and ease of use. Pharmacotherapy:The Journal of Human Pharmacology & Drug Therapy. 2002. 22:1036-40. | Epoc, FactsComp, Lexi, MMX, Mosby, PDR, Tarasc | Invest | Pharm | Accuracy | USA | Info-content, Usage |
| Forsetlund, L. and Bjorndal, A.. Identifying barriers to the use of research faced by public health physicians in Norway and developing an intervention to reduce them. Journal of Health Services & Research Policy. 2002. 7:10-8. |  | MD | MedGen | Survey/Int | Europe | POCL-process, Barrier |
| Strain, J. J., Chiu, N.-M., Brodsky, M., Karim, A. and Caliendo, G.. Comparison of three methods for identifying medical drug-psychotropic drug interactions. General Hospital Psychiatry. 2002. 24:311-5. | Epoc, Other | Invest | Pharm | Accuracy | USA | Info-content |
| Adler, M. D., Duggan, A., Ogborn, C. J. and Johnson, K. B.. Assessment of a computer-aided instructional program for the pediatric emergency department. AMIA. 2003. Annual Symposium Proceedings/AMIA Symposium. 2003:6-10. | Other | PG | EMed | RealPt | USA | Barrier |
| Cimino, J. J., Li, J., Graham, M., Currie, L. M., Allen, M., Bakken, S. and Patel, V. L.. Use of online resources while using a clinical information system. AMIA. 2003. Annual Symposium Proceedings/AMIA Symposium.:175-9. | MMX | MD, PG, Pharm | Other/NOS | RealPt | USA | Usage, Subgroup |
| Crowley, S. D., Owens, T. A., Schardt, C. M., Wardell, S. I., Peterson, J., Garrison, S. and Keitz, S. A.. A Web-based compendium of clinical questions and medical evidence to educate internal medicine residents. Academic Medicine. 2003. 78:270-4. | MDCon | PG | MedGen | RealPt | USA | Education, POCL-process |
| Gosling, A. S., Westbrook, J. I. and Braithwaite, J.. Clinical team functioning and IT innovation: a study of the diffusion of a point-of-care online evidence system. Journal of the American Medical Informatics Association. 2003. 10:244-51. | CIAP | MD | Other/NOS | Survey/Int | Oceania | Subgroup |
| Gosling, A. S., Westbrook, J. I. and Coiera, E. W.. Variation in the use of online clinical evidence: a qualitative analysis. International Journal of Medical Informatics. 2003. 69:1-16. | CIAP | MD | Other/NOS | Survey/Int | Oceania | POCL-process, Barrier |
| Kronick, J., Blake, C., Munoz, E., Heilbrunn, L., Dunikowski, L. and Milne, W. K.. Improving on-line skills and knowledge. A randomized trial of teaching rural physicians to use on-line medical information. Canadian Family Physician. 2003. 49:312-7. |  | MD | MedGen | Survey/Int | Canada | System |
| Lam, M. V., McCart, G. M. and Tsourounis, C.. An assessment of free, online drug-drug interaction screening programs (DSPS). Hospital Pharmacy. 2003. 38:662-668. | ClinPh, MMX, WebMD | Invest | Pharm | Accuracy | USA | Info-content |
| Leung, G. M., Johnston, J. M., Tin, K. Y. K., Wong, I. O. L., Ho, L.-M., Lam, W. W. T. and Lam, T.-H.. Randomised controlled trial of clinical decision support tools to improve learning of evidence based medicine in medical students. BMJ. 2003. 327:1090. | InfoRet | MS | LabPath, MedGen, ObGyn, Peds, Psych, Surg | RealPt | Asia | Impact |
| Owen, D. J. and Fang, M. L. E.. Information-seeking behavior in complementary and alternative medicine (CAM): An online survey of faculty at a health sciences campus. Journal of the Medical Library Association. 2003. 91:311-321. | WebMD, Other | MD, PG | MedGen, MedSpec, Peds, Psych, Other/NOS | Survey/Int | USA | Usage, POCL-process, Subgroup |
| Prosser, H. and Walley, T.. New drug uptake: qualitative comparison of high and low prescribing GPs' attitudes and approach. Family Practice. 2003. 20:583-91. |  | MD | MedGen | Survey/Int | Europe | POCL-process, Barrier, Subgroup |
| Ramnarayan, P., Kapoor, R. R., Coren, M., Nanduri, V., Tomlinson, A. L., Taylor, P. M., Wyatt, J. C. and Britto, J. F.. Measuring the impact of diagnostic decision support on the quality of clinical decision making: development of a reliable and valid composite score. Journal of the American Medical Informatics Association. 2003. 10:563-72. | Isabel | MD, PG, MS | Peds | Vignette | Europe | DecSuppt, Info-user |
| Ramos, K., Linscheid, R. and Schafer, S.. Real-time information-seeking behavior of residency physicians. Family Medicine. 2003. 35:257-60. |  | MD, PG | MedGen | RealPt | USA | POCL-process |
| Schwartz, K., Northrup, J., Israel, N., Crowell, K., Lauder, N. and Neale, A. V.. Use of on-line evidence-based resources at the point of care. Family Medicine. 2003. 35:251-6. | ClinEv, Dyna, InfoRet, TRIP | MD | MedGen | RealPt | USA | Impact, Usage, Education, Barrier |
| Watts, M., Fountain, J., Reith, D. M. and Herbison, P.. Clinical utility of an electronic poisons information and clinical decision support tool. International Journal of Medical Informatics. 2003. 71:3-8. | Other | MD | EMed | Survey/Int | Oceania | Usage |
| Abarca, J., Malone, D. C., Armstrong, E. P., Grizzle, A. J., Hansten, P. D., Van Bergen, R. C. and Lipton, R. B.. Concordance of severity ratings provided in four drug interaction compendia. Journal of the American Pharmacists Association: JAPhA. 2004. 44:136-41. | MMX | Invest | Pharm | Accuracy | USA | Info-content |
| Barrons, R.. Evaluation of personal digital assistant software for drug interactions. American Journal of Health-System Pharmacy. 2004. 61:380-5. | ClinPh, Epoc, FactsComp, Lexi, MedLet, MMX, Mosby, PDR, Skysc, Tarasc | Invest | Pharm | Accuracy | USA | Info-content, Usage |
| Bryant, S. L.. The information needs and information seeking behaviour of family doctors.[Erratum appears in Health Info Libr J. 2005 Mar;22(1):79]. Health Information & Libraries Journal. 2004. 21:84-93. |  | MD | MedGen | Survey/Int | Europe | POCL-process, Barrier |
| Carney, P. A., Poor, D. A., Schifferdecker, K. E., Gephart, D. S., Brooks, W. B. and Nierenberg, D. W.. Computer use among community-based primary care physician preceptors. Academic Medicine. 2004. 79:580-90. | MDCon | MD | MedGen | Survey/Int | USA | Usage, Barrier, Subgroup |
| Chaudet, H., Pellegrin, L., Boureau, C. and Delmont, J.. Evaluating the use of a comprehensive pretravel database by travel medicine experts and novices for advice building. Journal of Travel Medicine. 2004. 11:148-54. | Other | MD | MedSpec | Vignette | Europe | Subgroup |
| Clauson, K. A., Seamon, M. J., Clauson, A. S. and Van, T. B.. Evaluation of drug information databases for personal digital assistants. American Journal of Health-System Pharmacy. 2004. 61:1015-24. | ClinPh, Epoc, FactsComp, Lexi, MedLet, MMX, PDR, Skysc, Tarasc | Invest | Pharm | Accuracy | USA | Info-content, Usage |
| D'Alessandro, D. M., Kreiter, C. D. and Peterson, M. W.. An evaluation of information-seeking behaviors of general pediatricians. Pediatrics. 2004. 113:64-9. | MDCon, MMX, Other | MD, PG | Peds | RealPt | USA | Impact, Usage, System |
| Gosling, A. S. and Westbrook, J. I.. Allied health professionals' use of online evidence: a survey of 790 staff working in the Australian public hospital system. International Journal of Medical Informatics. 2004. 73:391-401. | CIAP, MIMS | Pharm, Psych | Other/NOS | Survey/Int | Oceania | Usage, POCL-process, Barrier, Subgroup |
| Johnson, E. D., Pancoast, P. E., Mitchell, J. A. and Shyu, C.-R.. Design and evaluation of a personal digital assistant- based alerting service for clinicians. Journal of the Medical Library Association. 2004. 92:438-44. | ClinEv, UTD, Other | MD, PG, NP | MedGen | RealPt | USA | Usage, POCL-process |
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**Abbreviations**

**E-resources**: AccMed = Access Medicine, AME = AskMayoExpert, AmHospF = American Hospital Formulary Service, AustralMed = Australian Medicines Handbook, BestP = Best Practice, BNF = British National Formulary, CIAP = Clinical Information Access Portal, ClinEv = Clinical Evidence, ClinPh = Clinical Pharmacology, DrComp = Dr Companion, Dyna = DynaMed, EBSCO = EBSCO Nursing/Rehab Reference Center, Epoc = Epocrates, FactsComp = Facts & Comparisons, FirstC = First Consult, FiveMin = Five-minute Consult, GPNote = General Practice Notebook, HopkinAbx = Hopkins Antibiotics Guide, InfoRet = InfoRetriever, Lexi = LexiComp (and related products), McMastP = McMaster-Plus, MDCon = MD Consult / ClinicalKey, MedLet = Medical Letter, MIMS = Monthly Index of Medical Specialities, MMX = MicroMedex, PDR = Physician’s Desk Reference, Pier = ACP Pier / ACP Smart Medicine, QuickCon = Quick Consult, QuickClin = Quick Clinical, Skysc = Skyscape, StatRef = STAT!Ref, Tarasc = Tarascon pharmacopeia, TherGuide = Therapeutic Guidelines, TRIP = Turning Research Into Practice, UTD = UpToDate, WebMD = WebMD, Medscape, eMedicine, Wiki = Wikipedia.

**Users**: MD = practicing physician, PG = postgraduate physician, MS = medical student, NP = nurse practitioner (practicing or student), PA = physician assistant (practicing or student), Pharm = practicing pharmacist, PharmS = pharmacist student, Psych = psychologist, Dent = dentist (practicing or student), Invest = member of investigator team.

**Context**: Accuracy = evaluation of resource information accuracy in a research setting, RealPt = real patient care, Survey/Int = survey / focus group / interview, Vignette = response to clinical vignettes/cases in an educational or research setting.

**Location**: America = North or South America other than USA and Canada.

**Themes**: Impact = clinical or enduring educational impact, DecSuppt = impact in test setting while using resource, Info-content = quality of information/content provided by resource (by investigator team), Info-user = correctness of information obtained from resource (by user), Usage = usage rates and usability, Education = point-of-care learning applied in a teaching setting, Credit = educational credit for point-of-care learning, POCL-process = process of point-of-care learning, System = system or training intervention to enhance resource use or point-of-care learning, Barrier = barriers to resource use or point-of-care learning, Time = temporal trends in resource use or point-of-care learning, Subgroup = subgroup analyses of resource use or point-of-care learning (e.g., clinician demographics).