

A Portal for the Canadian Virtual Health Library / Bibliothèque virtuelle canadienne de la santé (CVHL/BVCS):

Accomplishments & Possibilities, Scope & Structure

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Tom Flemming, Dean Giustini, & Vivian Stieda

CHLA/ABSC 2012 Annual Meeting, Hamilton, Ontario
June 14, 2012



CVHL / BVCS: Website to Portal

Where CVHL/BVCS is now:

- Web site managed with Drupal content management package
- Successful launch & development of free Virtual Library
- Library Locator, the data offering

CVHL / BVCS: Website to Portal

Where CVHL/BVCS wants to go:

- Authentication
- Question answering / referral
- Integration of best evidence
- Organization & structuring of clinical information
- Knowledge translation
- Communication & personalization

CVHL / BVCS: Website to Portal

Definition (IBM):

“a single point of personalized, unified access to applications, content, processes, and people”

“A complete portal solution should provide users with convenient access to everything they need to get their tasks done anytime, anywhere, in a secured manner.”

Stefen Liesche, IBM Portal Architect

CVHL / BVCS: Website to Portal

- Control information glut
- Improve cycle times
- Empower knowledge workers
- Reduce complexity
- Enhance partner and supplier communication
- Streamline processes

from: Credle et al, IBM, 2006



Aboriginal Canada Portal

www.aboriginalcanada.gc.ca

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[canada.gc.ca](#)

Topics

- [National Aboriginal Organizations](#)
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[Aboriginal Youth Art Contest](#)

The National Aboriginal Health Organization announces an art contest open to Aboriginal youth across Canada to increase awareness and empower audiences with information to address environmental health issues and to improve health.

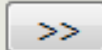


Your single window to First Nations, Métis and Inuit online resources and government programs and services.

Popular Links

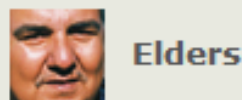
- [Indian Status](#)
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Quick Search



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Audiences



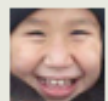
Elders



Women



Youth



Kids

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CVHL / BVCS: Website to Portal

Other examples:

- Alberta's Personal Health Portal
- Canadian Institute for Health Information / Institut canadien d'information sur la santé Portal
- NurseONE / INF-Fusion
- OCUL Scholars Portal – Geospatial, health proposed
- DNA Learning Centre, Cold Spring Harbor Laboratory
- General
- Niche
- Enterprise specific (EIP or EKP)

Examples from definition of portal in the *Internet Dictionary*

CVHL / BVCS Virtual Library

- Free, high quality resources
- Individual documents as well as web sites
- Standardized terminology with hierarchical structure
- Model of collaborative development



Français

English

Search

Virtual Library Search

Keyword search

 With all of the words

Search

Cancel

Guided search

Click a term to initiate a search.

Audience

General	Nurses, Nurse
Public (549)	Practitioners and
All Health	LPNs (205)
Professionals (450)	Naturopaths (9)
Acupuncturists (2)	Occupational
Audiologists (10)	Hygienists (6)
Biomedical	Occupational
engineers and	Therapists (34)
physicists (5)	Optometrists (2)
Chiropractors (4)	Orthotists and
Dentists and Dental	Prosthetists (15)
Hygienists (26)	Paramedics (1)
Dietitians and	Pharmacists (52)

Type

Application	Table (3)
Software (13)	Documents (273)
Association (44)	Encyclopedias (19)
Association of	Foundations (17)
Patients (68)	Journal Article (13)
Bibliographic	Video
Database (40)	Recording (10)
Bibliography (18)	Government
Blog (19)	Publications (129)
Congresses (3)	Health
Government	Facilities (15)
Agencies (110)	Reports and
Health Services (64)	Studies (236)

Library Locator

Suggest a Site

Recently Added Records

Search Tips

Subjects

- [Analysis, Diagnosis and Treatment](#) (94)
- [Disciplines](#) (380)
- [Diseases](#) (260)
- [Health](#) (276)
- [Health Care](#) (340)
- [Humanities and Social Sciences](#) (142)

Audience

- [Recent posts](#)

Counselors (14)
Health Sciences
Librarians (88)
HIM Managers (27)
Homeopaths (9)
Hospital
Administrators (76)
Interprofessional
Relations and
Co-operation (17)
Laboratory
Technologists (11)
Massage
Therapists (12)
Medical Radiation
Technologists (11)
Midwives (25)

Phytotherapists (2)
Psychologists (37)
Researchers (180)
Respiratory
Therapists (2)
Social Workers (43)
Sexologists (3)
Speech-Language
Pathologists (9)
Veterinarians (1)

Training (44)
Association of
Health
Professionals (191)
Biography (3)
Business
Enterprise (12)
Consensus and
Guideline (46)
Database (54)
Figure (1)
Hospitals (21)
Image
Database (16)
Regional
Agency (8)
Teaching
Materials (40)
Charitable
Organization (77)
Consumer Health
Information (291)
Critical Appraisal
or Critical
Reading (27)
Maps (3)
Poison Control
Centers (3)
Community
Networks (54)
Drug
Information (24)
Educational
Courses (16)

Legislation (4)
Statistics (159)
Medical
Dictionaries (11)
Medical
Libraries (23)
Toxicological Data
Sheet (2)
Museums (10)
Periodicals (12)
Problems and
Exercises (2)
Research
Structure (49)
Scientific and
Technical
Information (103)
Scientific
Society (17)
Teaching
Structure (5)
Education (134)
Exhibits (16)
Forum and Mailing
List (4)
Image (4)
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Guides (30)
Wiki (13)

Coverage

Alberta (23)
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Columbia (46)
Canada (639)
France (6)
Germany (7)
International (200)
Italy (7)
Japan (1)
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New Brunswick (8)
Newfoundland and
Labrador (12)
Northwest
Territories (6)
Nova Scotia (16)
Nunavut (6)
Ontario (93)
Prince Edward
Island (8)
Quebec (53)
Saskatchewan (12)
United
Kingdom (26)
United States (74)
Yukon (6)



Authentication

- Integrity of website vs. Vehicle for collaboration & communication
- Access to licensed resources for affiliated & unaffiliated health professionals
- For individuals, integration of access gained via various affiliations

Authentication

- Trust vs. identity
- Access control for licensed resources
- Shibboleth vs. open source solutions
- SAML – Security Assertion Markup Language
 - Open source
 - “Federation” of trusted sources for authentication
- Canadian Access Federation (CANARIE)



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Clinical Journal of Pain:

June 2012 - Volume 28 - Issue 5 - p 437-451

doi: 10.1097/AJP.0b013e3182321ad8

[Review Articles](#)

Adverse Events Attributable to Nocebo in Randomized Controlled Drug Trials in Fibromyalgia Syndrome and Painful Diabetic Peripheral Neuropathy: Systematic Review

Häuser, Winfried MD^{*,†}; Bartram, Claas^{*,†}; Bartram-Wunn, Eva^{*,†}; Tölle, Thomas MD[‡]

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EVIDENCE 1,644

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 - Evidence Based Synopses 23
 - Systematic Reviews 69
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 - [Aus. & NZ](#) 11
 - [Canada](#) 9
 - [UK](#) 51
 - [USA](#) 83
 - [Other](#) 1
- Clinical Q&A 6
- Core primary research 6
- Extended primary research 265
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- Patient Decision Aids 0
- Patient Information 229
- More 26
- News 11

SEARCH RESULTS

Select All

Choose Your Action

- [1. Bedside screening tests vs. videofluoroscopy or fiberoptic endoscopic evaluation of swallowing to detect dysphagia in patients with neurological disorders: systematic review](#)
■ DARE. 2009
[CPD/CME](#) [Developing World?](#) [Related](#) [Conclusion](#) [Preview](#)
- [2. Swallowing Disorders \(Treatment\)](#)
■ EMEDICINE.COM 2011
[CPD/CME](#) [Developing World?](#) [Related](#) [Conclusion](#) [Preview](#)
- [3. Swallowing Disorders \(Overview\)](#)
■ EMEDICINE.COM 2011
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- [4. Swallowing Disorders \(Follow-up\)](#)
■ EMEDICINE.COM 2011
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ASSOCIATED RESULTS

MEDLINE ARTICLES [PubMed.gov](#)

Therapy	1,419
Etiology	1,202
Diagnosis	520
Prognosis	1,129
Systematic Reviews	366

CLINICAL TRIALS [ClinicalTrials.gov](#)

0 trials

BNF RESULTS [bnf.org](#)

- [BOTULINUM TOXIN TYPE B](#)
- [BOTULINUM TOXIN TYPE A](#)
- [RISEDRONATE SODIUM](#)
- [ALENDRONIC ACID](#)
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News	11
MEDICAL IMAGES	0
MEDICAL VIDEOS	1
MEDICAL EDUCATION	
USA	0
UK	0

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BY CLINICAL AREA [What does this mean?](#)

Gastroenterology	308
Otolaryngology-ENT	266
Neurology	235
Pediatrics	133
Cardiology	113
Oncology	98
Pulmonology	91
Surgery	91
Infectious Disease	89
Rheumatology	69
Hematology	57
OB-Gyn	53
Endocrinology	51
Geriatrics	41
Psychiatry	34
Dentistry	33
Radiology	25
Ophthalmology	22
Dermatology	21
Allergies and Immunology	20
Urology	19
Critical Care	16
Emergency Medicine	15
Physical Medicine	15
Anesthesiology	14
Orthopedic	14

EMEDICINE.COM 2011

CPD/CME Developing World? Related Conclusion Preview

5. [Swallowing Disorders \(Diagnosis\)](#)

EMEDICINE.COM 2011

CPD/CME Developing World? Related Conclusion Preview

6. [Swallowing Disorders](#)

MEDLINEPLUS

CPD/CME Developing World? Related Conclusion Preview

7. [Percutaneous endoscopic gastrostomy versus nasogastric tube feeding for adults with swallowing disturbances](#)

COCHRANE DATABASE OF SYSTEMATIC REVIEWS 2012

CPD/CME Developing World? Related Conclusion Preview DOI

8. [Does looped nasogastric tube feeding improve nutritional delivery for patients with dysphagia after acute stroke? A randomised controlled trial](#)

NHS ECONOMIC EVALUATION DATABASE. 2010

CPD/CME Developing World? Related Conclusion Preview

9. [Non-pharmacological therapies for dysphagia in Parkinson's disease](#)

COCHRANE DATABASE OF SYSTEMATIC REVIEWS 2009

CPD/CME Developing World? Related Conclusion Preview DOI

10. [Supratentorial Regions of Acute Ischemia Associated With Clinically Important Swallowing Disorders. A Pilot Study.](#)

STROKE 2008

CPD/CME Developing World? Related Conclusion Preview DOI **Full text**

11. [Swallowing Disorders as a Predictor of Unsuccessful Extubation: A Clinical Evaluation.](#)

AMERICAN JOURNAL OF CRITICAL CARE 2008

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12. [Economic analysis of esophageal stenting for management of malignant dysphagia](#)

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We found no calculators related to this search - can you recommend any?

RESULTS FROM BLITTER

- speechieLO: Looking forward to the next #slpchat- it's a #slp2b Q & A session! June 4th, 8:30pm Sydney time. More info at:

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IMAGES

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 NHS ECONOMIC EVALUATION DATABASE. 2009
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- [13. Selected topics in stroke management. Dysphagia assessment. In: Canadian best practice recommendations for stroke care.](#)
 CANADIAN STROKE NETWORK 2010
CPD/CME Developing World? Related Conclusion Preview

- [14. Evidence-based choice of esophageal stent for the palliative management of malignant dysphagia](#)
 DARE. 2008
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- [15. Dysphagia treatment post stroke: a systematic review of randomised controlled trials](#)
 DARE. 2008
CPD/CME Developing World? Related Conclusion Preview

- [16. Implementation of evidence-based treatment protocols to manage fever, hyperglycaemia, and swallowing dysfunction in acute stroke \(QASC\): a cluster randomised controlled trial.](#)
 LANCET 2011
CPD/CME Developing World? Related Conclusion Preview DOI **Full text**

- [17. Valid Items for Screening Dysphagia Risk in Patients With Stroke: A Systematic Review.](#)
 STROKE 2012
CPD/CME Developing World? Related Conclusion Preview DOI **Full text**

- [18. Rehabilitative management of swallowing and oral-motor movements in patients with tetanus of a public service in Brazil.](#)
 ACTA TROPICA 2012
CPD/CME Developing World? Related Conclusion Preview DOI **Full text**

TRIP is working with Doc2Doc to help connect you with clinical colleagues



TRIP and doc2doc: connecting you with clinical colleagues

Artificial Pacemakers: Basic Pacing Concepts Part- IV

MDR, XDR-TB

Is a patient with tuberculous pleural effusion infectious?

Should circumcision of both sexes be outlawed unless medically indicated?

Can a Hospital Say, 'Only Thin Doctors Can Work Here'?

Will the Queen die from anything other than old age?

What possible problems/challenges do you see/guess during London Olympics?

Tennis elbow

Are the pressures to prescribe too high?

[More discussions >>](#)

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■ INFO@GUIDELINES.GOV (NGC) 2011

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Not found what you're looking for?

While we try to answer all your information needs, we acknowledge that we're not always successful! Therefore, to help our users we have teamed up with a number of other resources to help you get the answers you need. These range from other search tools, clinical forums and even a clinical Q&A service (via Univadis for UK health professionals only).

Google: See google results for (swallowing disorders) below:

Web

About 923,000 results (0.05 seconds)

[Swallowing Disorders: MedlinePlus](#)

May 22, 2012 ... (National Institute on Deafness and Other Communication Disorders); **Swallowing Disorders** From the National Institutes of Health

Repeat this search on

SUMSearch

An alternative clinical search engine

003

days until your appraisal?



doc 2 doc

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Best Evidence

- Specialist “branch libraries” highlighting best evidence and providing organized collections of resources and services for specific disciplines and topics
- TRIP database – cross-resource searching

Integration

- Commercial resources integrated into the Virtual Library
- Federated searching → Cross-resource searching
- Apache SOLR
 - Open source option compatible with Drupal

Clinical/PICO

[choose your search »](#)

patient condition

intervention

comparison

outcome

Find clinical evidence from Cochrane, DARE, ACP Journal Club, UpToDate, PubMed ...

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TOOLS & REFERENCE

Drug Information

» [LPCH-SHC CRL Online \(Lexicomp\)](#)
(SUMC onsite only)

» [Micromedex](#)

» [Natural Medicines](#)

» [Pharmacy Portal »](#)

Differential DX

» [DXplain](#)

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ABOUT THE PORTAL



To suggest additions and changes to this portal or if you have questions, please contact [Rick Zwies](#), 650-736-0334 or rwies@stanford.edu.

BIOMEDICAL RESOURCES

- Journals
- Books
- Databases
- Images
- Clinical Decision Tools
- ALL »

SPECIALTY PORTALS

- Pediatrics
- Clinical
- LPCH Heart Center Nursing
- Pharmacy
- PICU
- ALL »

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Structured information

- Infrastructure to enable search access via EHR and decision support systems
- Identification & highlighting / “pushing” of “best evidence”
- Presentation in format suiting application, and including tools for analysis & for expediting application

Focusing on Key Information

- Knowledge translation tools, such as highlighting of best evidence / of most popular resources
 - Information structured according to clinical, not research, needs
- Checklists
- Dashboards

Clinical dashboards in otolaryngology

Activity / Effectiveness

Workforce

Risk Management

Quality

Page 1 | Page 2 | Page 3

Department Activity

Measure	%	State
DNA Rate	6%	■
18 week admitted	99%	■
2 week rule	95%	■

Infection

<u>MRSA bacteraemia</u>	■
<u>C.difficile infections</u>	■
<u>Hand hygiene compliance</u>	■
<u>Post-op wound infection</u>	■

Notes

Clinical Measures

Elective Activity	March	Goal	Red Flag	Source
Tonsillectomy surgery day case (%)	92 % ■	93 %	75 %	Info. Dept
Myringoplasty surgery day case (%)	95 % ■	94 %	75 %	Info. Dept
Nasal surgery day case (%)	96 % ■	91%	75 %	Info. Dept
Same day cancellations	8 % ■	5 %	8 %	Info. Dept
Emergency Activity				
Food bolus , <24hr removal (%)	N/A	100 %	90 %	Info. Dept
Quinsy outpatient management	84 % ■	93 %	75 %	Info. Dept
Epistaxis mean length of stay	1.8 d ■	2.7 d	5 d	Info. Dept
Fracture nose, 2 week management (%)	100% ■	100 %	90 %	Info. Dept

Complications

Tonsillectomy bleed rate



Myringoplasty success rate (3m)



Khemani et al. Clinical Otolaryngology

Volume 35, Issue 3, pages 251-253, 23 JUN 2010 DOI: 10.1111/j.1749-4486.2010.02143.x

<http://onlinelibrary.wiley.com/doi/10.1111/j.1749-4486.2010.02143.x/full#f1>

Data & Statistics

- Patient data as well as knowledge (Strachan, 2011)
- Integrated access to health systems statistics & other data with bibliographic resources
- Bring together CIHI portal, OPHID via OCUL Scholars Portal, and other Canadian sources
- Quality assurance & audit / comparison with “best practice”
 - Dashboards (NHS, 2008)



- Health A-Z
- Healthy Living
- Tests & Treatments
- Medications
- Find Health Care
- Health Alerts

SYMPTOM CHECKER

SHOW MORE

FIRST AID

- > [Rescue Breathing and CPR](#)
- > [Cuts](#)
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- > [Choking](#)

SHOW MORE

IS IT AN EMERGENCY?

If you, or somebody in your care, have chest pains, difficulty breathing, or severe bleeding, it



Stroke
Learn more

We want to hear from you
Please take our quick 6 question survey

YOUR HEALTH MATTERS

- Timely Health Topics**
- Health Tools**
- Health Alerts**

IS IT AN EMERGENCY?

If you, or somebody in your care, have chest pains, difficulty breathing, or severe bleeding, it could be life-threatening. Call **911** or the local emergency number immediately.

PHONE NUMBERS

HealthLink Alberta
1-866-408-5465

Poison & Drug Information Service (PADIS)
1-800-332-1414

Mental Health Help Line
1-877-303-2642

Kids Help Phone
1-800-668-6868

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Government of Alberta ■



YOUR HEALTH MATTERS

Timely Health Topics



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- › [Allergies: Avoiding outdoor triggers](#)
- › [Allergies to Insect Stings](#)
- › [Migraine Headaches](#)
- › [Shin Splints](#)
- › [Heart Attack](#)
- › [Eye Injury](#)
- › [Scrapes](#)
- › [Bedbugs](#)

MORE TIMELY HEALTH TOPICS

Health Tools



- › [Are you at risk for a heart attack?](#)
- › [Are you at risk for osteoporosis?](#)
- › [Are you ready to quit smoking?](#)
- › [From Embryo to Baby in 9 Months](#)
- › [What Is Your Child's BMI?](#)
- › [How Well Do You Bounce Back from Stressful Situations?](#)
- › [How Many Calories Did You Burn?](#)

MORE HEALTH TOOLS

Health Alerts



- › [Boil Water Advisory remains in effect for six northwest Calgary communities](#)
- › [Boil Water Advisory issued for seven NW Calgary Communities](#)
- › [Hantavirus confirmed in rural Albertan: important precautions urged \(North Zone\)](#)
- › [Hantavirus confirmed in rural Albertan: important precautions urged \(Edmonton Zone\)](#)
- › [Boil Water Advisory lifted for City of Fort Saskatchewan \(Edmonton Zone\)](#)

MORE HEALTH ALERTS

Communication & Personalization

- Relationship to authentication
- Outside the box choices
 - Discussions on clinical together with non-clinical topics
 - Specialized forums with critical mass to be sustained
 - Virtual participation of librarians alongside health professionals
- Constituent Relationship Management (CRM) solution identified fulfilling CVHL/BVCS needs: CiviCRM

Social Media

- Personalization
- Current awareness / Veille
- Shared evaluation
- Rewards for participation

Conclusion

“The following tools and techniques should be priorities in organizations interested in developing successful computer-based provider order entry (CPOE) and clinical decision support (CDS) implementations:

- A multidisciplinary team responsible for creating and maintaining the clinical content.
- An external repository of the organization's clinical content with a web-based viewer that allows anyone in the organization to review it.
- An online, collaborative, interactive, Internet-based tool to facilitate content development.
- An enterprise-wide tool to maintain the controlled clinical terminology concepts.”

From: Sittig et al (2010), Summary points box, p. 54

Conclusion

- Key: Collection & integration of various resources
[Note existing *Virtual Library* of free resources!]
- Key: Authentication to coordinate various professional roles & affiliations
- Open source over commercial seems best
- Importance of customized approach for clinicians
- Knowledge translation - Dashboards and checklists
- Make best advantage of existing health library resources & skills – question referral; crowd-sourcing
- Data integrated with knowledge; access to analysis tools
- Social approach to clinical material & clinicians



Merci!

Thank you!

We need & welcome your input –

Comments & Questions, Please

Nous avons besoin de votre participation et nous apprécions votre suggestions –

**Vos questions et commentaires,
s'il vous plaît**



Canadian Virtual Health Library / Bibliothèque virtuelle canadienne de la santé

Presentation & bibliography
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