LIBRARY ORIENTATION, PUBMED & ENDNOTE TRAINING

MPH, PHD & RESEARCH STUDENTS

ANNELISSA CHIN & WONG SUEI NEE
MEDICAL RESOURCE LIBRARIAN

13 AUGUST 2019 (2-5:30PM)
MD1 Computer Lab 1 (Level 8)
1. Know your library (2:00pm- 2:40pm)
   - Library Facilities
   - Library Resources (Findmore, LINC, etc)
   - Library Services (Graduate Students)
   - Tools (Proxy bookmarklet, FindIt@NUS Libraries)
   - Impactful Journals using JCR

2. Database searching skills
   - PubMed (2:40pm- 4:00pm)

3. Reference Management Software
   - EndNote (4:10pm-5:45pm)
NUS LIBRARIES: 8 libraries 1 system

EAI LIBRARY
- A good collection of English and Chinese materials on China and East Asia

CHINESE LIBRARY
- Departments using Chinese and Japanese resources

C J KOH LAW LIBRARY
- Law Faculty

MEDICAL LIBRARY
- Yong Loo Lin School of Medicine
- Faculty of Dentistry
- Saw Swee Hock School of Public Health
- Alice Lee Centre for Nursing studies
- Department of Pharmacy, Fos

SCIENCE LIBRARY
- Faculty of Science

MUSIC LIBRARY
- Yong Siew Toh Conservatory of Music

HON SUI SEN MEMORIAL LIBRARY
- Business School

CENTRAL LIBRARY
- 3
OPENING HOURS

Mon – Fri:
Term 8 am – 9 pm
Vacation 8.30am – 6 pm

Sat:
Term 10 am – 5 pm
Vacation Closed

Sun & Public Holiday:
Closed

Please check update on opening Hours at Library Portal

Reading Area is open 24/7 for NUS Staff & Students
MEDICAL LIBRARY FACILITIES

E-Resources cluster

*Photocopy / Printing / Scanning

*Self Checkout Machine

Training Room (walk in to use when not booked for training)

Discussion Rooms 1 & 2 (Book online)

Discussion Room 3 (Walk in use)

*Cashcard/Ez link – Photocopy, Print
MEDICAL LIBRARY FACILITIES

- Study Cubicles
- 24 Hour Reading Area
- RBR Collection (Self-service kiosk)

- Reading lounge (Newspapers)
- New Books Display
- Singapore Malaysia Collection
Library Essentials

Enter the libraries

Check your record
Borrow / Renew / Reserve books

Everything E:
Portal / E-Resources / E-forms

NUSNET ID / password

Smart Card/ Library Pin (NRIC/FIN no)
**LOAN ENTITLEMENT**

**GRADUATE STUDENTS**

<table>
<thead>
<tr>
<th>Maximum no of books</th>
<th>30 books</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online renewals</td>
<td>3 times</td>
</tr>
</tbody>
</table>

**Loan Period**

<table>
<thead>
<tr>
<th>Main Shelves Books</th>
<th>28 days</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>RBR Books</em> (<em>can borrow 2 books at a time</em>)</td>
<td>2 hours/Overnight</td>
</tr>
<tr>
<td>Bound periodical</td>
<td>1 day</td>
</tr>
<tr>
<td></td>
<td><em>(Not applicable for Law &amp; Medical bound journals)</em></td>
</tr>
</tbody>
</table>

*RReserve Books and Readings Collection (RBR)*
RBR items must be returned to the loan counter or RBR Kiosk where it was borrowed. A fine of $1.00 per hour is charged for overdue loans.
NUS LIBRARY PORTAL

ALL (FINDMORE@NUSL)
- Searches books, media, e-books, journal articles, newspaper articles, online thesis & more
- Covers most but not 100% of our articles & E-Resources

BOOKS AND MEDIA (LINC)
- Good for known item search
- Covers books, DVDs, music scores
- Cannot be used for journal or newspaper articles
FINDMORE: NUS LIBRARIES SEARCH ENGINE

Books

Journal Articles

Newspaper articles
**E-BOOKS**

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**Online access via:**

- NUS Libraries
- World Scientific e-Books
- About this E-Resource

---

**Title:** Singapore's health care system [electronic resource] : what 50 years have achieved / editors, Lee Chien Earn, K. Satku.

**Imprint:** Singapore : World Scientific, ©2016.

**Descrip.**

1 online resource (x, 392 p.) : ill. (some col.).

**Series**

World Scientific series on Singapore's 50 years of nation-building

**Note**

Title from PDF file title page (viewed January 10, 2016).

**Summary**

"How did Singapore's health care system transform itself into one of the best in the world? It not only provides easy access, but its standards of health care, not only in curative medicine but also in prevention, are exemplary. Fifty years ago, the infant mortality rate (IMR) was 26 per thousand live births; today the IMR is 2. Life expectancy was 64 years
RBR (Reserved Books/Readings)
2 hour/overnight loan (subject to fines)
Search catalogue (by module code /lecturer’s name) Eg SPH5002
E-Reserves
Scanned articles recommended by lecturers
Search LumiNUS (by module codes)
Only 1 download
<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Call #</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epidemiology / Leon Gordis</td>
<td>Gordis, Leon, 1934-</td>
<td>Medical Library RBR -- RA651 Gor 2013 --</td>
<td>AVAILABLE</td>
</tr>
<tr>
<td></td>
<td>author.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epidemiology / Leon Gordis</td>
<td>Gordis, Leon, 1934-</td>
<td>Medical Library RBR -- RA651 Gor 2013 --</td>
<td>AVAILABLE</td>
</tr>
<tr>
<td></td>
<td>author.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
RESERVE A BOOK

Search for "Searching skills toolkit : finding the evidence"
De Brún, Caroline.

Click on Request

Enter Matric/ student card no. & Library PIN

Click “Request Selected Item”
CHECK YOUR LIBRARY ACCOUNT - MyLINC

### QUICK LINKS
- My Library Account
- Library PIN
- Facilities Booking
- Contact
- FAQs
- Subject Guides

Modify your PIN
0 requests (holds).
Search the Catalog
Preferred Searches
My Reading History

---

### 4 ITEMS CHECKED OUT

<table>
<thead>
<tr>
<th>RENEW</th>
<th>TITLE</th>
<th>BARCODE</th>
<th>STATUS</th>
<th>CALL NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><em>Zika: from the Brazilian backlands to global threat</em> / Debora Diniz ; translated by Diane Grosklus Whilty.</td>
<td>5261778B</td>
<td>DUE 17-01-18 +1 HOLD</td>
<td>RA644 Zik.Di 2017</td>
</tr>
</tbody>
</table>
DOCUMENT DELIVERY SERVICE (DDS)

Requires Login to access EFORMS

- Request journal articles, book chapters or conference papers that are **not** available in NUS Libraries

- Accessed via E-Forms

- Cost borne by NUS Libraries
USEFUL RESEARCH TOOLS

1. Ways to download full text article
   - Searching PubMed – Login via Library portal
   - Searching Google – use Proxy Bookmarklet
   - Searching Google Scholar – use FindIt@NUS Libraries

2. Finding impactful journals using JCR

3. NUS Library Guide (Public Health subject guide)
FINDING FULL TEXT
(LOGIN VIA LIBRARY PORTAL)

Login via Library Portal :
Click on : Findit! @ NUS Libraries or Publisher Icons
Google “Dietary effects on breast-cancer risk in Singapore” by Lee, J; Lee, H.P; Gourley, L; Duffy, S.W; Day, N.E; Estève, J

http://libguides.nus.edu.sg/findfulltext/proxybookmark
Trans fatty acids and cardiovascular disease
D Mozaffarian, MB Katan, A Aschero... - ... England Journal of ..., 2006 - Mass Medical Soc
... the consumption of trans fatty acids from partially hydrogenated oils provides no apparent nutritional benefit and ... all in Boston (DM, AA, MJS, WCW), and the Division of Human Nutrition, Wageningen University ... FDA acts to provide better information to consumers on trans fats. ...
Cited by 1118 Related articles All 27 versions Cite Save

A food policy package for healthy diets and the prevention of obesity and diet-related non-communicable diseases: the NOURISHING framework
C Hawkes, J Jewell, K Allen - Obesity reviews, 2013 - Wiley Online Library
... chains for the provision of fruits and vegetables and other nutritious, often local ... and the development and promulgation of the National Agreement on Nutritional Health in ... Information and education aspects of behaviour change communication and nutrition labelling (essentially ... Cited by 61 Related articles All 3 versions Cite Save

An approach to building the case for nutrition policies to limit trans-fat intake—A Singapore case study
ASL Tan - Health policy 2011 - Elsivier
OBJECTIVE: At present, Singapore health authorities are deliberating nutrition labeling and regulations to reduce trans-fat in the food supply. This paper reviews the case for enacting nutrition policies to reduce population trans-fat intake in Singapore. It further proposes a ... Cited by 7 Related articles All 11 versions Cite Save
SERVICES FOR GRADUATE STUDENTS

Public Health Subject Guide at http://libguides.nus.edu.sg/publichealth
Journal Citation Reports (JCR) -- finding impact factor of journals

<table>
<thead>
<tr>
<th>Select Category</th>
<th>Lancet Global Health</th>
<th>Total Cites</th>
<th>Journal Impact Factor</th>
<th>Eigenfactor Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMARY HEALTH CARE</td>
<td></td>
<td>1,379</td>
<td>14.722</td>
<td>0.06841</td>
</tr>
<tr>
<td>PSYCHIATRY</td>
<td></td>
<td>10.580</td>
<td>0.06229</td>
<td></td>
</tr>
<tr>
<td>PSYCHOLOGY</td>
<td></td>
<td>10.240</td>
<td>0.06728</td>
<td></td>
</tr>
<tr>
<td>PUBLIC, ENVIRONMENTAL &amp; OCCUPATIONAL HEALTH</td>
<td></td>
<td>9.333</td>
<td>0.06395</td>
<td></td>
</tr>
<tr>
<td>RADIOLOGY, NUCLEAR MEDICINE &amp; MEDICAL IMAGING</td>
<td></td>
<td>8.443</td>
<td>0.05378</td>
<td></td>
</tr>
<tr>
<td>REHABILITATION</td>
<td></td>
<td>7.522</td>
<td>0.04205</td>
<td></td>
</tr>
<tr>
<td>REMOTE SENSING</td>
<td></td>
<td>7.105</td>
<td>0.01536</td>
<td></td>
</tr>
<tr>
<td>REPRODUCTIVE BIOLOGY</td>
<td></td>
<td>6.321</td>
<td>0.01947</td>
<td></td>
</tr>
<tr>
<td>RESPIRATORY SYSTEM</td>
<td></td>
<td>6.237</td>
<td>0.0179</td>
<td></td>
</tr>
<tr>
<td>EPIDEMIOLOGY</td>
<td></td>
<td>10.988</td>
<td>6.075</td>
<td>0.02447</td>
</tr>
</tbody>
</table>
COPYRIGHT

photocopying and printing

10% or 1 chapter of book
1 article in a journal issue

Resources are for your research and study
Avoid excessive photocopying or downloading
Copyright violations may have serious consequences
INTRA / INTER LIBRARY LOAN

- **Intra**-Library Loan – Request circulating books & journals found in other NUS Libraries to be collected at Medical Library

- **Inter**-Library Loan - Request books not owned by NUS Libraries
Learning Outcomes

• Search PubMed using **keywords & MeSH**
• Combine terms with ‘**AND**’ and ‘**OR**’
• Construct a **search strategy**
• Manage search results
• Create alerts in “My NCBI” account
• Search interface developed by the National Center for Biotechnology Information (NCBI) at National Library of Medicine (NLM)

• Provide access to approximately from MEDLINE, life science journals, and online books
MEDLINE

- MEDLINE is a subset of PubMed.
- MEDLINE records contain journal citations indexed with Medical Subject Headings (MeSH)

![Venn diagram showing the relationship between PubMed and Medline]
PUBMED VIA LIBRARY PORTAL

Library Portal http://www.lib.nus.edu.sg

• Directly access **full-text articles** via electronic journals subscribed by NUS Libraries

• Faster access
OR

either terms may be present
→ Cancer OR neoplasm

AND

both terms must be present
→ Lung cancer AND smoking

NOT

→ Use with caution
Human NOT animals

Note: Boolean operators must be entered in UPPERCASE.
PHRASES, TRUNCATION & BRACKETS

Phrase – search for exact phrase with “”

“attention deficit disorder”

“breast cancer”

Note: You may leave out the double quotes when searching PubMed.

truncation - search for spelling variants

vaccin* → vaccine, vaccines, vaccination, vaccinations, vaccinator, vaccinating...

Brackets ( )-group all synonyms in one parentheses

(cancer OR cancers OR tumor OR tumors ) AND smoking
Is smoking related to incidence of breast cancer?

**Concepts**

<table>
<thead>
<tr>
<th>breast cancer</th>
<th>smoking</th>
</tr>
</thead>
<tbody>
<tr>
<td>breast tumor</td>
<td>smoker*</td>
</tr>
<tr>
<td>breast carcinoma</td>
<td>tobacco</td>
</tr>
</tbody>
</table>

**Search Strategy**

- (breast cancer OR breast carcinoma OR breast lymphoma)
- AND
- (smoking OR smoker* OR tobacco)
SEARCHING PUBMED DATABASE

1. Keyword Search
   • In ‘Title’ field

2. MeSH Search
   • Subheading
   • Major MeSH
1. Enter the following into PubMed Basic Search box and press Enter/Search:

```
breast cancer OR breast carcinoma OR breast lymphoma
```

2. Followed by the second search below:

```
smoking OR smoker* OR tobacco
```

3. Click Advanced tab to go to PubMed Advanced Search Builder.
Keyword search retrieves the latest studies.
KEYWORD SEARCH (IN ‘TITLE’ FIELD)

Bypasses Automatic Term Mapping – More Specific but less comprehensive

Search results
Items: 1 to 50 of 367

1. Smoking and breast cancer risk by race/ethnicity and oestrogen and progesterone receptor status: the Multiethnic Cohort (MEC) study.
   Gram IT, Park SY, Maskarinec G, Wilkens LR, Haiman CA, Le Marchand L.
   PMID: 30688861

2. Clinical verification of the relationship between smoking and the immune microenvironment of breast cancer.
   PMID: 30616624

3. Water-pipe smoking promotes epithelial-mesenchymal transition and invasion of human breast cancer cells via ERK1/ERK2 pathways.

2. MESH (MEDICAL SUBJECT HEADINGS)

Medicine's controlled vocabulary used for indexing articles
Provides a consistent way to retrieve information
ENTRY TERMS

TIP: SEARCH MESH FIRST TO CHECK FOR RIGHT TERMS

If you need to expand your search consider these synonyms in keyword search

Other ways to find Synonyms

• Thesaurus
• Subject terms in Library catalogue and key concepts or Descriptors (Author supplied)
• Find a review article and look for the “keywords” used to search the different databases

Entry Terms:

• Breast Neoplasm
• Neoplasm, Breast
• Neoplasms, Breast
• Tumors, Breast
• Breast Tumors
• Breast Tumor
• Tumor, Breast
• Mammary Carcinoma, Human
• Carcinoma, Human Mammary
• Carcinomas, Human Mammary
• Human Mammary Carcinomas
• Mammary Carcinomas, Human
• Human Mammary Carcinoma
• Mammary Neoplasms, Human
• Human Mammary Neoplasm
• Human Mammary Neoplasms
• Neoplasm, Human Mammary
• Neoplasms, Human Mammary
• Mammary Neoplasm, Human
• Breast Cancer
• Cancer, Breast
• Cancer of the Breast
• Cancer of Breast
MESH SEARCH

Automatically expands MeSH term to include more specific concepts
MESH - MULTIPLE SUBHEADINGS

Breast Neoplasms
Tumors or cancer of the human BREAST.

PubMed search builder options
Subheadings:
- analysis
- anatomy and histology
- blood
- blood supply
- cerebrospinal fluid
- chemically induced
- chemistry
- classification
- complications
- congenital
- cytology
- diagnosis
- diet therapy
- drug therapy
- economics
- embryology
- enzymology
- epidemiology
- etiology
- genetics
- history
- immunology
- legislation and jurisprudence
- metabolism
- microbiology
- mortality
- nursing
- organization and administration
- parasitology
- pathology
- physiology
- physiolopathology
- prevention and control
- psychology
- radiography
- radionuclide imaging
- radiotherapy
- rehabilitation
- secondary
- secretion
- statistics and numerical data
- surgery
- therapy
- transmission
- ultrasonography
- urastructure
- urine
- veterinary
- virology
MESH-MAJOR, SUBHEADING

Display Settings: Full

Smoking
Inhaling and exhaling the smoke of burning TOBACCO.

PubMed search builder options

Restrict to MeSH Major Topic

Related information
PubMed
PubMed - Major Topic
Clinical Queries
NLM MeSH Browser
dbGaP Links
MedGen
VIEWING LIST OF MESH TERMS USED

Active smoking and breast cancer risk: original cohort data and meta-analysis.

MESH Terms:
- Adult
- Breast Neoplasms
- Carcinoma, Ductal
- Carcinoma, Ductal, Breast
- Cohort Studies
- Ductal
- Female
- Follow-Up Studies
- Humans
- Incidence
- Middle Aged
- Multivariate Analysis
- Odds Ratio
- Parity
- Proportional Hazards Models
- Prospective Studies
- Risk Assessment
- Risk Factors
- Smoking/Adverse effects
- Smoking/Epidemiology
- Surveys and Questionnaires
- Time Factors
- United States/Epidemiology
REFINING SEARCH WITH FILTERS

1. **Smoking and risk of breast cancer in the Generations Study cohort.**
   - PMID: 29162146 Free PMC Article

2. **Smoking and physical inactivity increase cancer prevalence in BRCA-1 and BRCA-2 mutation carriers: results from a retrospective observational analysis.**
   - PMID: 28975939

3. **The association between smoking and breast cancer characteristics and outcome.**
   - PMID: 28874120 Free PMC Article

4. **Active smoking and risk of breast cancer in a Danish nurse cohort study.**
   - Andersen ZJ, Jørgensen JT, Grøn R, Brauner EV, Lynge E.
HOW PUBMED INTERPRET YOUR SEARCH

Search details:
"breast neoplasms"[MeSH Terms] OR "breast"[All Fields] AND "neoplasms"[All Fields] OR "breast neoplasms"[All Fields] OR "breast cancer"[All Fields] OR "cancer"[All Fields]
HOW PUBMED INTERPRET YOUR SEARCH

Search keyword search using ‘breast cancer’, look at the Search Details to find out how PubMed translate your search.

**Combine two individual words with ‘AND’ in [All Fields]**

**Match to MeSH**

<table>
<thead>
<tr>
<th>Translations:</th>
</tr>
</thead>
<tbody>
<tr>
<td>breast cancer</td>
</tr>
<tr>
<td>&quot;breast neoplasms&quot;[MeSH Terms] OR</td>
</tr>
<tr>
<td>(&quot;breast&quot;[All Fields] AND &quot;neoplasms&quot;[All Fields]) OR</td>
</tr>
<tr>
<td>&quot;breast neoplasms&quot;[All Fields] OR</td>
</tr>
<tr>
<td>(&quot;breast&quot;[All Fields] AND &quot;cancer&quot;[All Fields]) OR</td>
</tr>
<tr>
<td>&quot;breast cancer&quot;[All Fields]</td>
</tr>
</tbody>
</table>

**Match to phrase in [All Fields]**
KEYWORD VS MESH

Keyword

MeSH

Major MeSH

Refine search e.g. Field searching

broadest, least precise, current

narrowest, most precise, slightly dated
**MESH + KEYWORD SEARCH STRATEGY**

1. Combine MeSH AND Keyword

2. Sort by the most relevant results using “Best Match”

<table>
<thead>
<tr>
<th>History</th>
<th>Search</th>
<th>Add to builder</th>
<th>Query</th>
<th>Items found</th>
</tr>
</thead>
<tbody>
<tr>
<td>#14</td>
<td>Add</td>
<td>Search ((&quot;Breast Neoplasms/epidemiology&quot;[Majr] OR &quot;Breast Neoplasms/statistics and numerical data&quot;[Majr]) AND &quot;Smoking/adverse effects&quot;[Majr])</td>
<td>77</td>
<td></td>
</tr>
<tr>
<td>#13</td>
<td>Add</td>
<td>Search (breast cancer[Title] OR breast carcinoma[Title] OR breast lymphoma[Title]) AND (smoking[Title] OR smoker*[Title] OR tobacco[Title]))</td>
<td>368</td>
<td></td>
</tr>
<tr>
<td>#12</td>
<td>Add</td>
<td>Search (breast cancer OR breast carcinoma OR breast lymphoma)) AND (smoking OR smoker* OR tobacco)</td>
<td>5060</td>
<td></td>
</tr>
<tr>
<td>#11</td>
<td>Add</td>
<td>Search smoking OR smoker* OR tobacco</td>
<td>349054</td>
<td></td>
</tr>
<tr>
<td>#10</td>
<td>Add</td>
<td>Search breast cancer OR breast carcinoma OR breast lymphoma</td>
<td>392777</td>
<td></td>
</tr>
</tbody>
</table>
3. Select few relevant studies based on ‘Best Match’
Collect desired citations and stored in Clipboard.
MY NCBI ACCOUNT

Sign in to NCBI

Sign in with
Google
NIH Login
ERA Commons

See more 3rd party sign in options

OR

Sign in directly to NCBI

NCBI Username
Password
Keep me signed in
Sign In

Forgot NCBI username or password?
Register for an NCBI account

My NCBI features include:

- Save searches & automatic e-mail alerts
- Display format preferences
- Filter options
- My Bibliography & NIH public access policy compliance
- SciENcv: a researcher biosketch profile service
- Highlighting search terms
- Recent activity searches & records for 6 months
- LinkOut: document delivery service & outside tool selections
TO SUMMARISE

Always search for MeSH terms first

If there are no MeSH terms then use keywords

Use “AND” or “OR” to either narrow or widen your search

Combine keywords and MeSH terms for a complete search

Filter your results at last

• Article type
• Age
• Language
CONTACT US

Medical Library
Walk in: Level 5, MD6
Telephone : 65162046
Email: mdlib@nus.edu.sg
www.lib.nus.edu.sg

Appreciate your feedback on PubMed at