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Cataloging Journal Article Reprints Authored by Seminal Figures of the 19th Century

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ACKNOWLEDGMENTS

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ABSTRACT

Objective: The objective of this project is to catalog reprints of 19th century medical journal articles whose authors have played an important role in the history of medicine. Seminal figures are those who have made significant contributions in the medical sciences and have formed a basis for later developments in the field.

Methods: The Associate was provided instruction in the handling of delicate historical journal article reprints and the cataloging process including a subject analysis of the journal article. Laura Hartman provided guidance and direction in the use of Voyager, Citrix, Macro Express, Medical Subject Headings (MeSH), Medical Text Indexer (MTI), Anglo American Cataloging Rules 2 (AACR2), Machine Readable Cataloging (MARC), and Index Catalog of the Surgeon General (IndexCat), for reviewing, updating and adding bibliographic information in the Voyager record. A subject analysis of each article was performed in order to assign the appropriate MeSH terms.

Outcomes: A total of 10 journal articles were cataloged and released into Locator Plus, making the articles available for searching and retrieval by National Library of Medicine (NLM) patrons. Including the necessary hours in training, the Associate worked an average of 2 hours weekly from November 18, 2011 – January 23, 2012.

Conclusion: Completing this project for the History of Medicine Division (HMD), has allowed for public access to 10 articles authored by seminal figures making additional portions of its rich collection accessible. With no formal cataloging training, the Associate gained proficiency in the use of the various cataloging resources as well as the opportunity to review medically historical articles and learn from them along the way.

INTRODUCTION

The History of Medicine Division holds over 10,000 journal article reprints authored by seminal medical figures between 1870 and 1920. At the time of this project, approximately 4600 of these reprints had a preliminary record in the Voyager database and were ready to be cataloged. This project provided access to a portion of this somewhat hidden collection making it available through LocatorPlus. Although a portion of the journal articles appear in IndexCat, and have a preliminary Voyager record, they lack several MARC fields including subject headings and are not available in LocatorPlus for discovery by researchers.

While the original journal publication can exist in NLM's collection, it is important to recognize the historical content and value existing in reprint articles. The historical significance of journal article reprints includes the real possibility of additional data or printing corrections introduced in the reprint that were not contained in the original journal. Such reprints require cataloging so that NLM may provide public scholarly access and for NLM's recordkeeping (Hartman, 2011).

The cataloging project was not offered as a formal fall project, rather introduced informally during the HMD curriculum session by Laura Hartman. The opportunity to work with Laura in HMD, learn to handle archival collections, satiate a scholarly interest in medical history and develop cataloging skills appealed greatly to me. The Associate shared her interest with Laura and with Kathel Dunn to discuss the possibility of engaging in an informal project agreement.

METHODOLOGY

Although familiar with cataloging concepts, guidelines and standards, the Associate had not been previously formally trained or experienced in cataloging. Three sessions (three weeks) were dedicated to training which included an overview of the cataloging resources including Voyager, Citrix, Macro Express, MeSH, MTI, AACR2, MARC tags, and IndexCat – The Associate referred fondly to the three

weeks as HMD Cataloging 101. Macro Express allows HMD to assign shortcut keys for long character strings – in essence, a string of 30 keys can easily be replaced by simultaneously holding a combination of 3 keys.

The Associate was provided with an Operator ID and Password in order to access the cataloging resources. Two unoccupied work stations are situated in HMD opposite Laura's office; while they are not occupied on a regular basis, students, interns and volunteers alternate use of this space. The Associate's schedule reflected 2 hour shifts of time when an HMD workstation was available. The Associate used this space while the request for Citrix access was being processed. With authorized access to Citrix and other applications, the associate would gain the ability to work on the Mezzanine at her workstation allowing for additional time to catalog journals.

The Associate began by selecting a journal article from an archival envelope. This article was inspected for illustration, case reports, bibliographic references, and condition.

The Associate typed the title into the Voyager search box to call up any preliminary records for the article reprint. Next, the associate entered, corrected or updated descriptive data into Voyager. The descriptive data in the bibliographic record included the following MARC fields (Appendix A):

245 field	Title and Statement of Responsibility
260 field	Imprint
300 field	Physical Description
500 field	Source of data not taken from the title page
504 field	Bibliographical references
650 field	MeSH (topical terms)
655 field	MeSH (publication types)

9XX fields Local NLM fields

LEADER: Encoding Level

008 field (date, place of publication, contents)

After entering the descriptive data and the leader information, the subject analysis began. The subject analysis was necessary to assign MeSH terms. The reprint journal articles contain no abstracts; therefore the analysis began at the very least with reading the article's introduction, thorough skim of the body and reading the conclusion. The terms used in the 19th century to describe certain body parts, microorganisms, conditions or diseases tend to differ from the terms currently used; investigation of this was an integral part of the subject analysis. Primary and Secondary MeSH terms, including qualifiers was assigned to capture the essence of the article.

The 9XX fields were completed to include date using Macro and the Associate's initials (as Cataloger's initials). The record was then saved, and printed out. Laura used the print out, performed a quality review of the record and when necessary, explained suggested edits of the MeSH terms. Once the record was verified, Laura released the record from Voyager into LocatorPlus. The records cataloged can be viewed in Locator Plus (Appendix B).

RESULTS

By the project's end, a total of 10 additional Locator Plus records of journal article reprints were available and the average time spent by the Associate cataloging a single record was 45 minutes. While over time the descriptive data was completed at a faster pace, the amount of time required to conduct a thorough subject analysis and to assign MeSH terms could vary greatly. With each record the Associate gained additional knowledge of MeSH terms and was excited for this experience.

DISCUSSION

“The History of Medicine Division of the National Library of Medicine collects, preserves, interprets, and presents materials documenting the history of medicine, biomedical science, health and disease in all time periods and cultures. It provides researchers and the public with access to manuscripts, books, photographs, films and other historical resources. The Division promotes, conducts, and facilitates scholarly research and public education through seminars, lectures, exhibitions, film programs, Web sites, databases, publications, catalogues, and finding guides” (U.S. National Library of Medicine, 2011). During the several weeks spent working on this project, the Associate made a tangible, albeit small contribution to the access of NLM’s HMD collection and participated in carrying out its mission by making 10 journal article reprints publically available through Locator Plus. The Associate entered the project with minimal experience and recognized the substantial growth and learning that occurred while working within HMD.

RECOMMENDATIONS

The Associate recommends that HMD continues to offer this or a similar project to Associate Fellows. The Associate was provided with an opportunity for professional development through this enriching and valuable experience. Laura Hartman identified various resources for NLM cataloging including the *NLM Policy on Subject Analysis and Classification* (U.S.National Library of Medicine, 2012) as well as *Using Medical Subject Headings (MeSH ®) in Cataloging* (U.S. National Library of Medicine, 2009). The Associate further recommends that future Associates build in a segment of training time to review these resources or review the sections of these resources deemed necessary by the project sponsor during the initial weeks of training.

Appendix 1

General Steps for Cataloging Journal Article Reprints

Rev. Nov. 22, 2011

Leader

- Enc Lvl
 - Change 5 to 7

008 field

- Date 1
 - Change to match 260 \$c
- Place of Publication code
 - Change to match state or county code of place in 260 \$a
 - MARC code for a U.S. place is the state postal code plus 'u'
 - Common examples:
 - Baltimore = mdu
 - Boston = mau
 - Chicago = ilu
 - New York = nyu
 - Philadelphia = pau
 - MARC code for London is 'enk' for England
- Contents 1
 - If there are bibliographical references, enter 'b' in this field

245 field (Title and statement of responsibility)

Example: 245 10 \$a Title proper : \$b subtitle, if any / \$c statement of responsibility.

Capitalize only the first word of the title and any proper nouns; otherwise all words are in lowercase.

- First indicator (Ind 1) should always be a 1
- Second indicator (Ind 2) tells the program how skip the initial article when indexing the title
 - Use 0 if the title does not begin with an initial definite or indefinite article
 - Use 2 if the title begins with "A"
 - Use 3 if the title begins with "An"
 - Use 4 if the title begins with "The"
- \$a title proper
 - Confirm that the title is spelled and capitalized correctly
- \$b other title information [a.k.a., a subtitle]
 - Proper punctuation is [space] colon [space] \$b [space] other title information

- If there is no other title information, omit this entire subfield.
- \$c statement of responsibility
 - Proper punctuation is [space] forward slash [space] \$c [space] statement of responsibility.
 - Include words like “by”
 - Omit degrees, titles, affiliations, etc.
- The 245 field always ends with a period.

260 field (Imprint)

Example: 260 \$a Chicago : \$b American Medical Association, \$c 1916.

Capitalize place names and all proper nouns.

- \$a place of publication
 - If there is no place, use the place of publication of the journal; put the place in square brackets because it is being supplied by the cataloger.
- \$b publisher name
 - Proper punctuation is [space] colon [space] \$b
 - If there is no publisher on the piece, use the Latin abbreviation [s.n.] (sine nomine = no name); this information goes in square brackets because it is being supplied by the cataloger.
- \$c date of publication
 - Proper punctuation is comma [space] \$c
 - If there is no date on the piece, use the year from the reprint statement; put the year in square brackets because it is supplied information.
- The 260 field always ends with a period.

300 field (physical description)

Examples: 300 \$a 12 p. : \$b ill. ; \$c 20 cm.
 300 \$a 12 p., 3 leaves of plates : \$b ill. ; \$c 20 cm.
 300 \$a p. 20-26 : \$b ill. ; \$c 20 cm.
 300 \$a p. 20-26, [3] leaves of plates : \$b ill. ; \$c 20 cm.
 300 \$a p. 20-26, [4] p. of plates : \$b ill. ; \$c 20 cm.

- \$a extent or pagination
 - Record the last numbered page if the pagination begins with 1, followed by p.
 - If the pagination is from the original journal, record the first and last page number preceded by p.
 - Record number of plates (plates are illustrations printed on pages or leaves that are not counted in the main pagination sequence, and therefore need to be recorded separately)
 - If the plates are numbered consecutively beginning with one, record the number of plates without square brackets; otherwise, count the number of plates and enter that number within square brackets
 - Describe plates as “p. or leaves or plates”

- If the plates are printed on both sides of a leaf, use p.
- If the plates are printed on one side only of a leaf, use leaves
- \$b physical details
 - Proper punctuation is [space] colon [space] \$b
 - If there are illustrations, record them as ill.
 - If there are no illustrations, omit this entire subfield.
- \$c height
 - Measure and record the height of the pamphlet in cm.
 - Always round up; so 20.1 cm becomes 21 cm.

500 note for source of data not taken from the title page

- If there is no title page, make a note for the source
 - 500 \$a Caption title.
 - 500 \$a Cover title.
- If there is a title page, but you took the imprint from somewhere else, make a note.
 - 500 \$a Imprint from cover.
 - 500 \$a Imprint from IndexCat.

500 note for reprint statement

- Copy the Reprint statement from the piece.

504 note for bibliographical references

- If there are bibliographical references (footnotes or endnotes), use macro Ctrl + Shift + Alt + 9 to add the appropriate 504 note.

650 MeSH (topical terms)

First Indicator = 1 for primary subject; 2 for secondary subject

Second Indicator always = 2 for MeSH

- Assign at least one primary MeSH term plus any appropriate secondary terms
- Frequently, the primary MeSH term is a disease or organ term

655 MeSH (publication types)

First Indicator always blank

Second Indicator always = 2 for MeSH

- Add a publication type when applicable
- 655 2 \$a Case Reports

9XX fields (local NLM fields)

992 field

- \$a Replace YYYYMMDD with “today’s date” using macro Ctrl + Alt + G.

993 field

- \$a Replace [Cat only] with your cataloger initials
- \$b Replace YYYYMMDD with “today’s date” using macro Ctrl + Alt + G.

994 field

- When you are completely finished with the macro, put your cursor in the \$a and use macro Ctrl + Keypad 1 to add CDN \$b “today’s date”

Save the Record

- Click on Save to DB (Boat) icon
- The first time you save a record in a session you will be prompted to change your profile, click on “no”.
- When the Authority validation screen appears, click on **Continue** button to save the record; clicking on Close will not save the record.

Appendix 2

Title: Blood cultures in human glanders / by Burrill B. Crohn.

Author(s)/Name(s): Crohn, Burrill B. (Burrill Bernard),

Publisher: [Philadelphia? : s.n., 1909?]

Description: 11 p. ; 24 cm.

Language: eng

MeSH Subjects: Glanders blood
Glanders microbiology

Notes: Cover title.
Imprint from IndexCat.
Reprinted from: American journal of the medical sciences,
August 1909.

NLM Unique ID: 101487593

Location: HMD Collection

Call Number: W6 P3 v.7481 box 1470 no.28

Status: Available

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Title: Carcinoma of the right fallopian tube so large that it was
readily palpable through the abdomen / by Thomas S.
Cullen.

Author(s)/Name(s): Cullen, Thomas Stephen,

Publisher: [Chicago? : s.n., 1910?]

Description: 4 p. ; 19 cm.

Language: eng

MeSH Subjects: Fallopian Tube Neoplasms pathology
Carcinoma pathology
Case Reports

Notes: Caption title.
Reprinted from: Surgery, gynecology and obstetrics, July
1910, pages 75-76.

NLM Unique ID: 101487596

Location: HMD Collection

Call Number: W6 P3 v.7481 box 1472 no.25

Status: Available

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Title: The diagnosis of the functional activity of the pancreatic gland by means of ferment analyses of the duodenal contents and of the stools / by Burrill B. Crohn.

Author(s)/Name(s): Crohn, Burrill B. (Burrill Bernard),

Publisher: [Philadelphia? : s.n., 1913?]

Description: 13 p. ; 24 cm.

Language: eng

MeSH Subjects: Pancreatic Function Tests
Pancreas physiopathology
Case Reports

Notes: Caption title.
Reprinted from: American journal of the medical sciences,
March 1913, no. 3, vol. cxlv, p. 393.

NLM Unique ID: 101487592

Location: HMD Collection

Call Number: W6 P3 v.7481 box 1470 no.27

Status: Available

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Title: New growths involving the terminal bile and pancreatic ducts : their early recognition by means of duodenal content analysis / by Burrill B. Crohn.

Author(s)/Name(s): Crohn, Burrill B. (Burrill Bernard),

Publisher: [Philadelphia? : s.n., 1914?]

Description: 18 p. ; 24 cm.

Language: eng

MeSH Subjects: Bile Duct Neoplasms diagnosis
Pancreatic Neoplasms diagnosis
Diagnostic Techniques, Digestive System
Gastrointestinal Contents
Case Reports

Notes: Imprint from IndexCat.

Reprinted from: American journal of the medical sciences,
December, 1914, no. 6 , vol. cxlviii, p. 839.

NLM Unique ID: 101487594
Location: HMD Collection
Call Number: W6 P3 v.7481 box 1470 no.29
Status: Available

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Title: The pathology of tuberculosis of the breast / by Charles
G. Cumston.

Author(s)/Name(s): Cumston, Charles Greene,

Publisher: [Albany? : s.n., 1910?]

Description: 11 p. ; 23 cm.

Language: eng

MeSH Subjects: Tuberculosis pathology
Mastitis pathology
Breast pathology

Notes: Caption title.
Reprinted from: Albany medical annals, June, 1910.

NLM Unique ID: 101488250
Location: HMD Collection
Call Number: W6 P3 v.7481 box 1526 no.14
Status: Available

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Title: Remarks on atrophy of the testicle / by Charles Greene
Cumston.

Author(s)/Name(s): Cumston, Charles Greene,

Publisher: [Albany? : s.n., 1909?]

Description: 10 p. ; 23 cm.

Language: eng

MeSH Subjects: Atrophy etiology
Testicular Diseases complications

Testis physiopathology
Case Reports

Notes: Caption title.
Reprinted from: Albany medical annals, May 1909.

NLM Unique ID: 101488253
Location: HMD Collection
Call Number: W6 P3 v.7481 box 1526 no.16
Status: Available

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Title: Some remarks upon the uric acid diathesis, and its
treatment / by Charles F. Craig.

Author(s)/Name(s): Craig, Charles Franklin,
Publisher: [Danbury, Conn.? : s.n., 1897?]

Description: 15 p. ; 19 cm.
Language: eng

MeSH Subjects: Hyperuricemia
Hyperuricemia drug therapy
Sodium Compounds therapeutic use
Case Reports

Notes: Cover title.
Reprinted from New England medical monthly, for July,
1897.

NLM Unique ID: 101487177
Location: HMD Collection
Call Number: W6 P3 v.7481 box 1470 no.26
Status: Available

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Title: Surgery of the liver : a series of liver cases in which it
was necessary to remove a segment of the liver or to
suture torn areas / by Thomas S. Cullen.

Author(s)/Name(s): Cullen, Thomas Stephen,
Publisher: [Chicago? : s.n., 1907?]

Description: 12 p. : ill. ; 27 cm.
Language: eng
MeSH Subjects: Liver surgery
Surgical Procedures, Operative methods
Needles adverse effects
Case Reports
Notes: Reprinted from: Surgery, gynecology and obstetrics, vol.
IV, no. 5, pages 573-584, May, 1907.
NLM Unique ID: 101487782
Location: HMD Collection
Call Number: W6 P3 v.7481 box 1472 no.8
Status: Available

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Title: The surgical aspects of bronchiectasis particularly in
children and young adults / by Charles Greene Cumston.
Author(s)/Name(s): Cumston, Charles Greene,
Publisher: Boston : D.C. Heath & Co., 1907.
Description: 18 p. ; 20 cm.
Language: eng
MeSH Subjects: Bronchiectasis surgery
Pulmonary Surgical Procedures methods
Child
Young Adult
Case Reports
Notes: Cover title.
Reprinted from: Boston medical and surgical journal, v.
clvi, no. 2, pp. 39-44, Jan. 10, 1907.
NLM Unique ID: 101488411
Location: HMD Collection
Call Number: W6 P3 v.7481 box 1527 no.22
Status: Available

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<http://www.nlm.nih.gov/tsd/cataloging/trainingcourses/mesh/index.html>

U.S. National Library of Medicine. (2011, April 26). *History of Medicine About Us*. Retrieved February 14, 2012, from U.S. National Library of Medicine:
<http://www.nlm.nih.gov/hmd/about/index.html>

U.S. National Library of Medicine. (2012, February 6). *U.S. National Library of Medicine*. Retrieved February 14, 2012, from NLM Policy on Subject Analysis and Classification:
<http://www.nlm.nih.gov/tsd/cataloging/subjclasspolicy.html>