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Introduction to PubMed Central

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Introduction to PubMed Central (PMC)

Emily Hamstra

Outreach & Access Coordinator

Network of the National Library of Medicine, Region 5

Online Northwest | March 25, 2022

Network of the National Library of Medicine (NNLM)



7 NNLM Regions

NIH

National Institutes of Health
Nation's research agency

NLM

National Library of Medicine
World's largest biomedical library

NNLM

Network of the National Library of Medicine
Outreach program of the NLM comprised of 7
Regional Libraries (RMLs) and several offices

Region 5

Serves AK, CA, HI, NV, OR, WA, U.S. Territories
and Freely Associated States

Agenda:

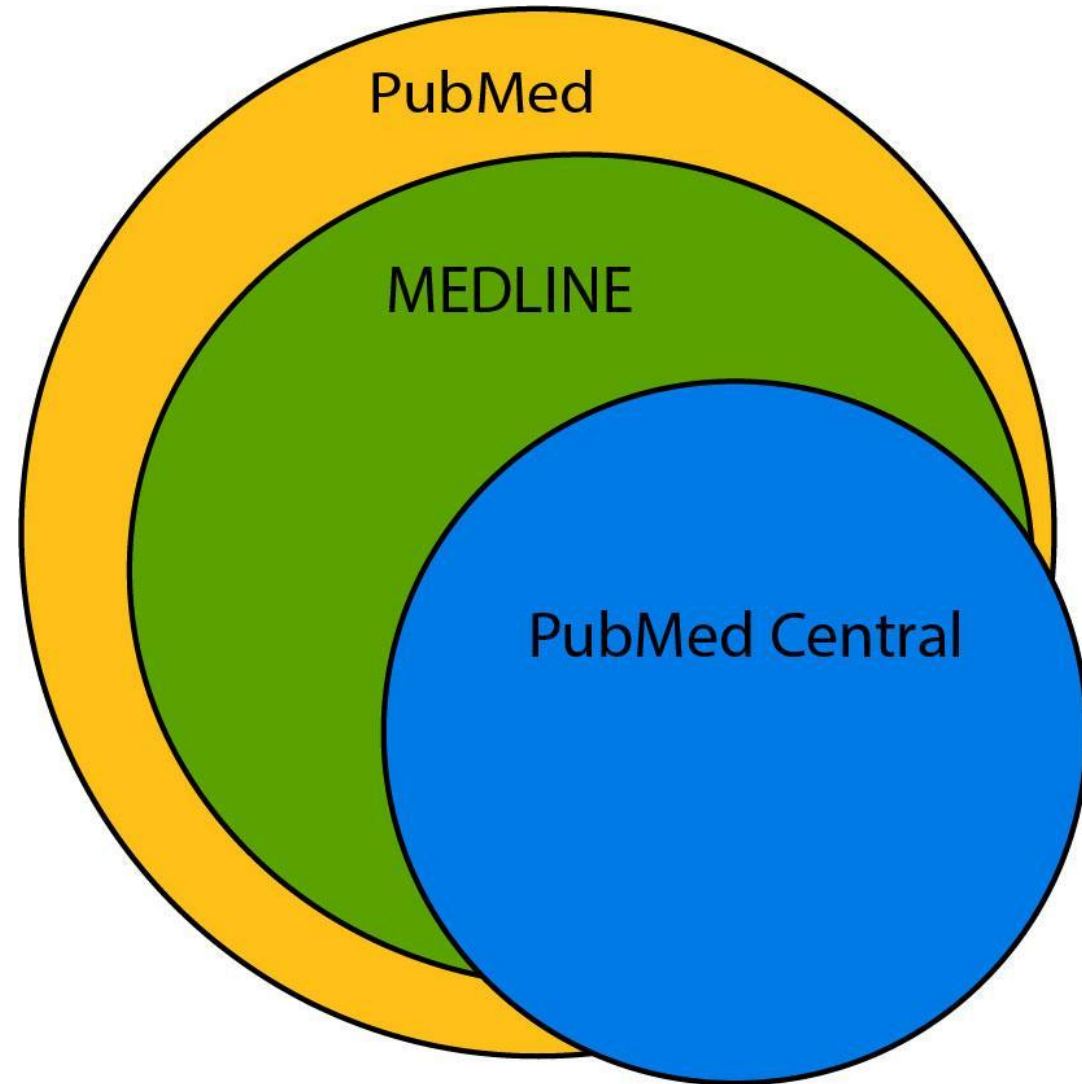
Introduction to PubMed Central (PMC)

- Part 1: Connection between PubMed, MEDLINE, and PMC
- Part 2: Overview of PubMed Central (PMC)
 - What is PMC?
 - What's in PMC?
- Questions and comments

PubMed, MEDLINE, and PubMed Central (PMC)

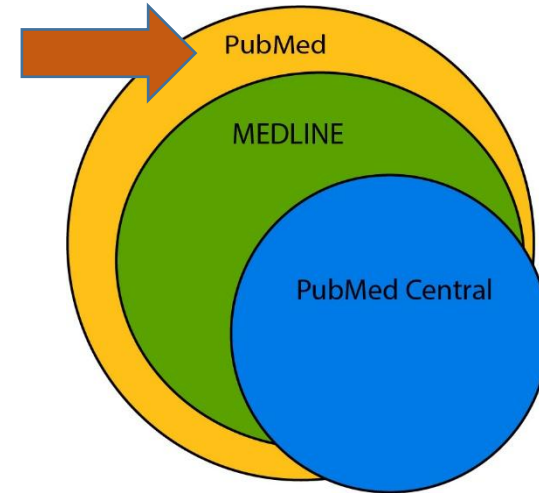
What's the connection?

Image adapted from the Network of the National Library of Medicine, Southeast Region. (2018). Gauging the Quality of Open Access References in PubMed: the MEDLINE, PubMed Central, and PubMed Connection. [Webinar]. Retrieved from <https://youtu.be/Baylux-TwKY>.



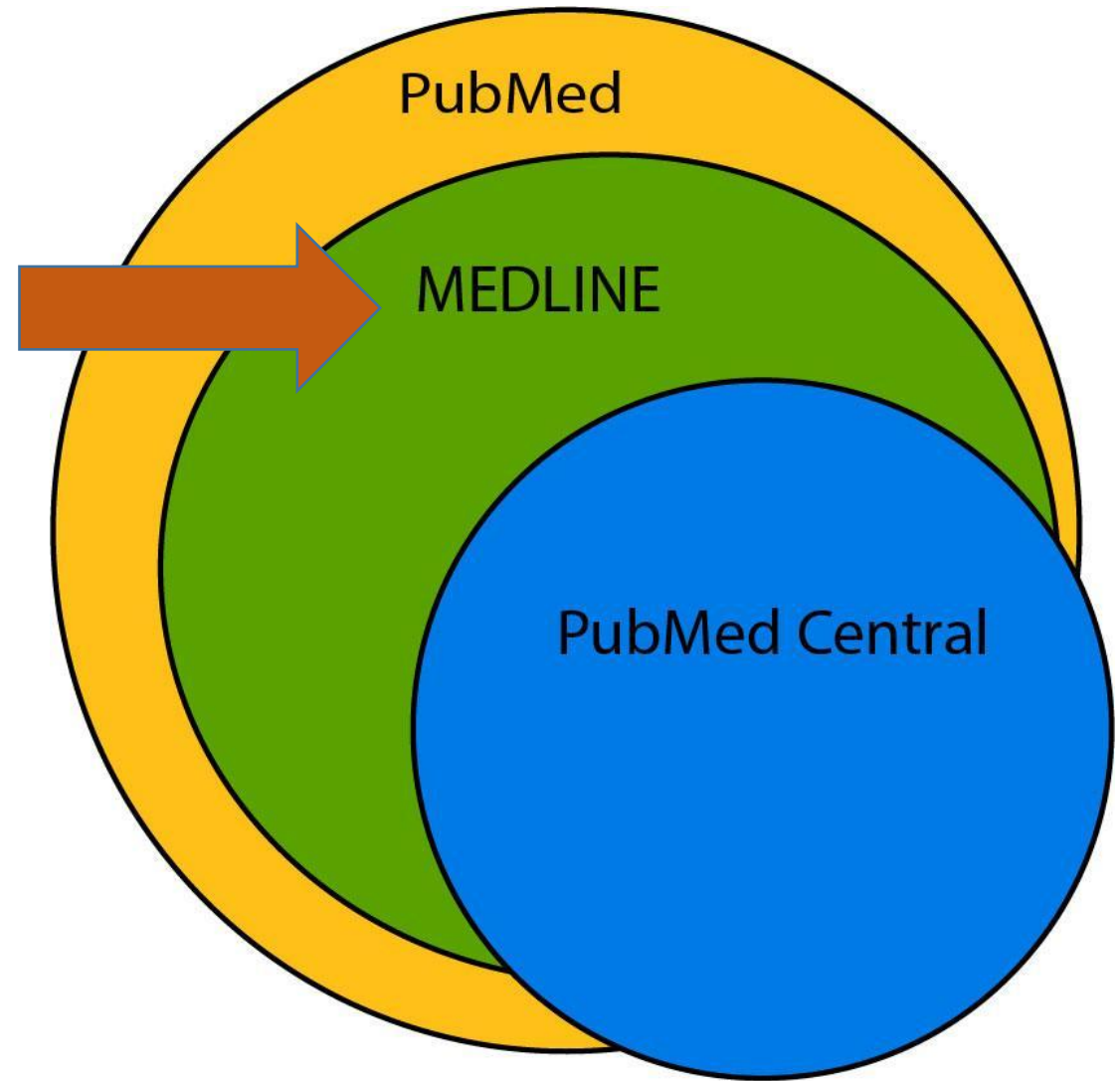
PubMed.gov

- Abstracting and Indexing
- 32 million citations for biomedical literature
- Includes MEDLINE and most of PubMed Central
- Links to articles from publisher's websites and PubMed Central (PMC) for full-text access
 - Access to full-text may be dependent on journal subscriptions, institutional access



MEDLINE

- Indexing for journals in the biomedical and life sciences
- 25 million citations from 5,200 journals
- MeSH (Medical Subject Headings)



1. J Sports Med Phys Fitness. 2013 Oct;53(5):490-501 - [PubMed](#)
2. Am J Physiol Gastrointest Liver Physiol. 2011 Mar;300(3):G477-84 - [PubMed](#)
3. Immunity. 2003 Sep;19(3):311-5 - [PubMed](#)
4. J Appl Physiol (1985). 2007 Mar;102(3):1113-22 - [PubMed](#)
5. Cochrane Database Syst Rev. 2011 Feb 16;(2):CD001364 - [PubMed](#)

Show all 54 references

Publication types

> [Review](#)

MeSH terms

- > [Animals](#)
- > [Diet](#)
- > [Exercise*](#)
- > [Humans](#)
- > [Immunity*](#)
- > [Nutritional Physiological Phenomena / immunology](#)
- > [Sports Nutritional Physiological Phenomena / immunology*](#)
- > [Sports Nutritional Sciences*](#)
- > [Vitamin D / immunology](#)

Substances

> [Vitamin D](#)

Related information

[MedGen](#)

LinkOut – more resources

FULL TEXT LINKS



ACTIONS

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PAGE NAVIGATION

[Title & authors](#)

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[Publication types](#)

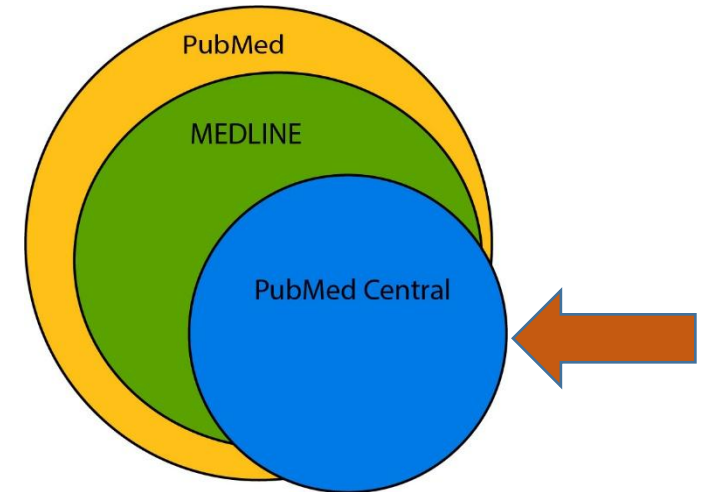
[MeSH terms](#)

[Substances](#)

PubMed Central (PMC)

- Repository of full-text content
- 7.6 million articles, manuscripts, and more

Source: [MEDLINE, PubMed, and PMC \(PubMed Central\): How are they different?](#)



 National Library of Medicine
National Center for Biotechnology Information

Log in

 PubMed Central®

Search PMC Full-Text Archive

Search

Advanced | Journal List

PubMed Central® (PMC) is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM)



About PMC

Discover a digital archive of scholarly articles, spanning centuries of scientific research.



User Guide

Learn how to find and read articles of interest to you.



Collections

Browse the PMC Journal List or learn about some of PMC's unique collections.

Where is a journal indexed?

Use the NLM Catalog

The screenshot shows the NLM Catalog search results for the journal 'Nutrition & diabetes'. The page is titled 'NLM Catalog' and includes a search bar with 'NLM Catalog' selected. The search results are displayed in a list format. The entry for 'Nutrition & diabetes' is highlighted with a green box. The entry details include:

- NLM Title Abbreviation:** Nutr Diabetes
- Title(s):** Nutrition & diabetes.
- Other Title(s):** Nutrition and diabetes
- Publication Start Year:** 2011
- Country of Publication:** England
- Publisher:** Houndmills, Basingstoke : Nature Pub. Group, 2010-
- Language:** English
- ISSN:** 2044-4052 (Electronic)
2044-4052 (Linking)
- LCCN:** 2011243936
- Electronic Links:** <https://www.ncbi.nlm.nih.gov/pmc/journals/1752>
PubMed Central
<http://www.nature.com/nutd/index.html>
Nature Publishing Group
- In:** MEDLINE: v6, Jan. 2016-
PubMed: v1, Jan. 2011-
PMC
- Current Indexing Status:** Currently indexed for MEDLINE.
- Current Subset:** Index Medicus
- MeSH:** Diabetes Mellitus
Metabolic Diseases
Nutrition Disorders*
- Broad Subject Term(s):** Endocrinology
Metabolism
Nutritional Sciences
- Publication Type(s):** Periodical
- Notes:** Articles added as received to annual volume in progress.
- Other ID:** (OCoLC)694510765
- NLM ID:** [101566341](#) [Serial]

What is PMC?

- Full-text archive
- Free to access all content
- Subject focus: biomedical and life sciences
- Maintained by the National Center for Biotechnology Information (NCBI) at the National Library of Medicine (NLM)

Source: [About PMC](#)

Recent Updates to PMC

Old PMC

The screenshot shows the old PMC website with a blue header containing navigation links like 'NCBI', 'Resources', and 'How To'. A search bar is present with a dropdown menu set to 'PMC'. Below the header, there's a main content area with a large image of a brain scan and a 'PubReader' section. The page is organized into several columns with various links and a central statistics box.

Get Started

- [PMC Overview](#)
- [Users' Guide](#)
- [Journal List](#)
- [PMC FAQs](#)
- [PMC Copyright Notice](#)

Participate

- [Information for Publishers](#)
- [How to Include a Journal in PMC](#)
- [Participation Agreements](#)
- [File Submission Specifications](#)
- [File Validation Tools](#)

Keep Up to Date

- [New in PMC | RSS](#)
- [PMC Announce Mail List](#)
- [Utilities Announce Mail List](#)
- [Tagging Guidelines Mail List](#)

Other Resources

- [PMC International](#)
- [Text Mining Collections](#)
- [Developer Resources](#)
- [PMC Citation Search](#)
- [PMC Accessibility](#)

Public Access

- [Funders and PMC](#)
- [How Papers Get Into PMC](#)
- [NIH Manuscript Submission System](#)
- [My Bibliography](#)
- [PMCID/PMID/NIHMSID Converter](#)

5.8 MILLION Articles
are archived in PMC.
Content provided in part by:

2296	336	5304
Full Participation Journals	NIH Portfolio Journals	Selective Deposit Journals

New PMC

The screenshot shows the new PMC website with a dark blue header featuring the NIH logo and 'National Library of Medicine' text. A search bar is prominent, and the page has a clean, modern layout with large icons for navigation.

National Library of Medicine
National Center for Biotechnology Information

PubMed Central®

Search PMC Full-Text Archive

Advanced | Journal List

PubMed Central® (PMC) is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM)

About PMC
Discover a digital archive of scholarly articles, spanning centuries of scientific research.

User Guide
Learn how to find and read articles of interest to you.

Collections
Browse the PMC Journal List or learn about some of PMC's unique collections.

What's in PubMed Central (PMC)?

Over 7.6 million full-text documents, 1700-present:

- Articles provided by publishers and scholarly societies
- Author manuscript deposits
- Preprint articles
- Digitized content, historical literature

The screenshot shows the PubMed Central (PMC) website homepage. At the top left is the NIH logo and the text "National Library of Medicine National Center for Biotechnology Information". At the top right is a "Log in" button. Below this is the PMC logo and the text "PubMed Central®". A search bar is present with the placeholder text "Search PMC Full-Text Archive" and a "Search" button. Below the search bar are links for "Advanced" and "Journal List". A paragraph of text states: "PubMed Central® (PMC) is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM)". Below this are three main navigation options: "About PMC" with an icon of a document and a mouse cursor, "User Guide" with an icon of a book labeled "USER GUIDE", and "Collections" with an icon of three books. Each option has a brief description below it.

NIH National Library of Medicine
National Center for Biotechnology Information

Log in

PMC PubMed Central®

Search PMC Full-Text Archive Search

Advanced | Journal List

PubMed Central® (PMC) is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM)

About PMC
Discover a digital archive of scholarly articles, spanning centuries of scientific research.

User Guide
Learn how to find and read articles of interest to you.


Collections
Browse the PMC Journal List or learn about some of PMC's unique collections.

What's in PMC?: Articles from Publishers and Scholarly Societies

- Full-text articles provided by publishers and scholarly societies
- Many are Open Access articles

PMC PubMed Central® Search PMC Full-Text Archive Search Advanced Search | User Guide

Journal List > JAMA Network > PMC6902792

 JAMA Network Open [View Article ▶](#)

[JAMA Netw Open](#). 2019 Dec; 2(12): e1916800. PMID: PMC6902792
Published online 2019 Dec 4. doi: [10.1001/jamanetworkopen.2019.16800](https://doi.org/10.1001/jamanetworkopen.2019.16800) PMID: [31800073](https://pubmed.ncbi.nlm.nih.gov/31800073/)

Association Between e-Cigarette Use and Depression in the Behavioral Risk Factor Surveillance System, 2016-2017

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This article has been [cited by](#) other articles in PMC.

OTHER FORMATS
[PubReader](#) | [Printer Friendly](#)

ACTIONS
[Cite](#)
[Favorites](#)

SHARE
[Twitter](#) [Facebook](#) [LinkedIn](#)

RESOURCES
[Similar articles in PubMed](#)

Journal Selection for PMC: Scope

- Journal must be peer-reviewed and have a peer-review policy
- Biomedical and life sciences
- Consist of the following article types:
 - Original research and review articles
 - Clinical case reports
 - Data descriptor articles that point to a dataset
 - Descriptions of clinical or surgical procedures
- Affiliations of the editors and authors reflect the journal's scope and demonstrate editorial independence and diversity
- Journal must be responsible for the peer-review and editorial processes

Source: [How to Include a Journal in PMC](#)

Journal Selection for PMC: NLM Review

- Journal policies
- Article content
- Figure and table quality
- Language quality
- Formatting and organization
- Editorial board and authorship
- Publication schedule

Source: [Journal Selection for PMC](#)

What's in PMC?: Author Manuscripts

- Compliance with funder requirements or public access policies
- Final version of an article, peer-reviewed and accepted for publication
- PMC record provides the full-text, and includes a link to the final version

The screenshot shows the PubMed Central interface for an author manuscript. At the top, there is a search bar and navigation links. The main content area includes a banner for 'HHS Public Access Author manuscript' with links for 'About author manuscripts' and 'Submit a manuscript'. Below this, the article title 'Osteoporosis treatment: recent developments and ongoing challenges' is displayed, along with the authors 'Sundeep Khosla, MD, Prof and Lorenz C Hofbauer, MD, Prof'. A yellow callout box highlights a note: 'The publisher's final edited version of this article is available at [Lancet Diabetes Endocrinol](#). See other articles in PMC that [cite](#) the published article.' On the right side, there are sections for 'OTHER FORMATS' (PubReader, PDF), 'ACTIONS' (Cite, Favorites), 'SHARE' (Twitter, Facebook, RSS), and 'RESOURCES' (Similar articles in PubMed).

Depositing an author manuscript

NIH Manuscript Submission System ([NIHMS](#))



What's in PMC?: Preprint articles

- Pilot program
- Early draft
- Not peer reviewed

The screenshot shows the PubMed Central interface for a preprint article. At the top, there is the PubMed Central logo and a search bar. The article title is "Association of Vitamin D Deficiency and Treatment with COVID-19 Incidence" by David O Meltzer, Thomas J Best, Hui Zhang, Tamara Vokes, Vineet Arora, and Julian Solway. A prominent green box contains a warning: "This article is a preprint. Preprints have not been peer reviewed. To learn more about preprints in PMC see: NIH Preprint Pilot." A yellow box at the bottom states: "The complete version history of this preprint is available at medRxiv." On the right side, there are options for "OTHER FORMATS" (Printer Friendly), "ACTIONS" (Cite, Favorites), "SHARE" (Twitter, Facebook, LinkedIn), and "RESOURCES" (Similar articles in PubMed).

PMc PubMed Central® Search PMC Full-Text Archive Search Advanced Search | User

Journal List > medRxiv > PMC7274230

NIH National Institutes of Health Turning Discovery Into Health Preprint Made publicly accessible prior to peer review

Version 1. medRxiv. Preprint. 2020 May 13. PMID: PMC7274230
doi: [10.1101/2020.05.08.20095893](https://doi.org/10.1101/2020.05.08.20095893) PMID: [32511549](https://pubmed.ncbi.nlm.nih.gov/32511549/)

i This article is a preprint.
Preprints have not been peer reviewed.
To learn more about preprints in PMC see: [NIH Preprint Pilot](#).

Association of Vitamin D Deficiency and Treatment with COVID-19 Incidence
[David O Meltzer](#), [Thomas J Best](#), [Hui Zhang](#), [Tamara Vokes](#), [Vineet Arora](#), and [Julian Solway](#)
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The complete version history of this preprint is available at [medRxiv](#).

OTHER FORMATS
[Printer Friendly](#)

ACTIONS
[Cite](#)
[Favorites](#)

SHARE
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RESOURCES
[Similar articles in PubMed](#)

What's in PMC?: Digitized Content

- NLM collaboration with Wellcome Trust, Jisc, publishers, academic societies
- Historical literature
- Public Domain or orphaned works
- Government documents/publications

The screenshot shows the PubMed Central interface for a specific article. At the top, there is a search bar and navigation links. The article title is 'A Report ON THE INFLUENZA EPIDEMIC IN THE BRITISH ARMIES IN FRANCE, 1918'. Below the title, there is a navigation bar with page numbers 505, 506, 507, 508, and 509. The main content area displays the first page of the report, which includes the title, author information, and the beginning of the text. The text describes the influenza epidemic in the British armies in France in 1918, mentioning the incubation period and the impact on the military.

PMCID: PMC2341988

Br Med J. 1918 Nov 9; 2(3019): 505-509.

A Report ON THE INFLUENZA EPIDEMIC IN THE BRITISH ARMIES IN FRANCE, 1918

The Influenza Committee of the Advisory Board to the D.G.M.S., France

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NOV. 9, 1918] INFLUENZA IN THE BRITISH ARMIES IN FRANCE. [THE BRITISH MEDICAL JOURNAL 505

A Report
ON
THE INFLUENZA EPIDEMIC IN THE BRITISH ARMIES IN FRANCE, 1918.
BY
THE INFLUENZA COMMITTEE OF THE ADVISORY BOARD TO THE D.G.M.S., FRANCE.

EPIDEMIOLOGY.
The epidemic of influenza began by a few local outbreaks in the First and Second Armies in April and May. It appeared both at Rouen and Wimereux in April. At the end of May it reappeared with great violence in the

INCUBATION PERIOD.
The period of incubation was from two to four days. Thus, Major Clarke (No. 19 Casualty Clearing Station) reports:
Twenty-six men forming part of the personnel occupied a double hospital marquee. On the morning of June 18th one of them was admitted to hospital with influenza; 18 others were taken ill between 7 a.m. on June 21st (72 hours) and 12 midnight on June 22nd (114 hours). The other 7 men escaped.
The following instance is reported in one of the wards of No. 55 General Hospital.
The attached diagram represents a portion of a surgical ward into which medical cases were sent owing to pressure on the medical side. The two medical cases occupied the beds 62 and 10.
The case in bed No. 62 was admitted on June 21st (72 hours)

Learn More about PubMed, MEDLINE, and PMC

Access

PubMed and MEDLINE: <https://pubmed.ncbi.nlm.nih.gov/>

PubMed Central (PMC): <https://www.ncbi.nlm.nih.gov/pmc/>

NLM Catalog: <https://www.ncbi.nlm.nih.gov/nlmcatalog>

Training

How PubMed Works, a series of classes by NNLM: <https://nnlm.gov/training/class-catalog/how-pubmed-works>

Support

MEDLINE, PubMed, and PMC (PubMed Central): How are they different? <https://www.nlm.nih.gov/bsd/difference.html>

PubMed: User Guide: <https://pubmed.ncbi.nlm.nih.gov/help/>

MEDLINE: Overview: https://www.nlm.nih.gov/medline/medline_overview.html

PMC Overview: <https://www.ncbi.nlm.nih.gov/pmc/about/intro/>

Works Cited

About PMC: <https://www.ncbi.nlm.nih.gov/pmc/about/intro/>

How to Include a Journal in PMC: <https://www.ncbi.nlm.nih.gov/pmc/pub/addjournal/>

Journal Selection for PMC: <https://www.ncbi.nlm.nih.gov/pmc/pub/journalselect/>

MEDLINE, PubMed, and PMC (PubMed Central): How are they different? <https://www.nlm.nih.gov/bsd/difference.html>

New PMC Website is Live! (3/22/22): <https://www.ncbi.nlm.nih.gov/pmc/about/new-in-pmc/#2022-03-22>

Questions & comments

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