



Discover Smarter Research: How to Use ProQuest Central Premium Effectively

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Session Objectives

By the end of this session, you will be able to:

- Understand the scope of ProQuest Central Premium, including its key subject areas and the variety of content types available.
- Use advanced search options, filters, and core search strategies to navigate the platform more efficiently.
- Enhance literature review workflows using both traditional search tools and the AI-powered ProQuest Research Assistant.
- Locate relevant academic sources quickly and conduct more targeted, efficient research.
- Save, organize, share, and cite content using built-in tools to streamline the entire research and writing process.

ProQuest Central Premium

A foundational, multidisciplinary research solution delivering multiformat content for first-year students to scholarly researchers.



Provides extensive **full-text content**, including 15,000+ full-text scholarly journals across disciplines and **local, national and international news** coverage from over 1,600 active full-text news sources.



Delivers coverage aligned to discipline-specific curriculum supporting the success of **first-year students through to scholarly researchers**.

- Enhanced with video, ebooks, A&I resources, primary sources and more



A growing **foundational resource**, offering comprehensive content for the entire campus community.



Includes more content types and features from **ProQuest One discipline** products, bringing together essential resources for studying and researching education, business, psychology, sustainability, and more.

- Providing an intuitive, user-friendly interface and curriculum-aligned discipline approach to research, teaching and learning.



Platform/UI updates

Browsing menus and more



All PQC Premium components can be easily searched independently.



New browsing carousels for a variety of content types, including:

- Scholarly journals
- Global newspapers
- Streaming video
- ProQuest One discipline products



Advanced Search, Publication Search, Browse, Content Limiters, and type-ahead features continue to support a wide range of search skills and use cases.

ProQuest Central Premium

Basic Search | Advanced Search | Publications | Browse | Change databases

"artificial intelligence" and medicine

Full text | Peer reviewed

Search tips

Featured Journals

Find top peer-reviewed journals from over 175 subject areas including the humanities, business, healthcare, science, and more.

Climate Policy, London | International Journal of Contemporary... | International Journal of Logistics Management...

Browse all Scholarly Journals

Essential Newspapers

Read the latest news from important local, national, and international sources.

Chicago Tribune, Chicago, IL | The Guardian, London, UK | Wall Street Journal (Online), New York, NY

Browse all Newspapers

Also Available to You

- ProQuest One Applied & Life Sciences
- ProQuest One Business
- ProQuest One Education
- ProQuest One Health & Nursing
- ProQuest One Psychology
- ProQuest One Religion & Philosophy
- ProQuest One Social Sciences
- ProQuest One Sustainability
- Global Newsstream
- Research 1-Books

Featured Videos

A house cat's guide to staying safe indoors | Training Title 95, in Test Section Index, Episode 95 | Opinion: Ben Stein on Pets Caught up in the Housing Foreclosure Mess | Stress Assessment A-1, in Volume 2: New Research, Assessment Tools | Travel: Postcard From Tokyo | F3.3 Obsessive-Compulsive and Related Disorders: Trichotillomania

ProQuest Central is the largest single periodical resource available, bringing together complete databases across all major subject areas, including Business, Health and Medical, Language and Literature, Social Sciences, Education, Science and Technology, as well as core titles in the Performing and Visual Arts, History, Religion, Philosophy, and includes thousands of full-text newspapers from around the world.

Coverage: 1806 - current

View title list

Subject coverage

- Multidisciplinary

Included databases

- Arts & Humanities Database
- Canadian Business & Current Affairs Database
- Career & Technical Education Database
- Global Newsstream
- Humanities Index
- Military Database
- ProQuest One Applied & Life Sciences

Show all

Also part of

Want to Learn More?

Try one of these options:

- Search the online Help
- Discover answers to common questions at ProQuest's Product Support Center
- Contact Support if you need further assistance.

Search tip



1

Authoritative and in-demand content

1. Authoritative and in-demand multiformat content

ProQuest Central Premium delivers access to:



Important **scholarly publishers** like Nature, Nature Sustainability, and CABI Cases series of journals with full text of **key journals** including the Lancet, Nature, Journal of Marriage and Family, and Journal of Business Ethics.



Local, national, and international news coverage, including the Washington Post, Chicago Tribune, and Financial Times. CBS 60 MINUTES segments are included, as are daily videos from the New York Times and Washington Post.



Global market information & current affairs magazines: Explore analyses of industries, countries, economies, and markets from providers like Fitch Solutions, Economist Intelligence Unit (EIU), Plunkett Research, and Barnes reports. Keep current with full-text magazines like The Economist, Billboard, Variety, and The Spectator.



Grey literature: Discover reports, working papers, conference papers and proceedings, trade publications, dissertations and theses and other hard-to-find content types, which can help uncover the latest in academic research.



THE WALL STREET JOURNAL.

The New York Times

Le Monde

theguardian

The Economist

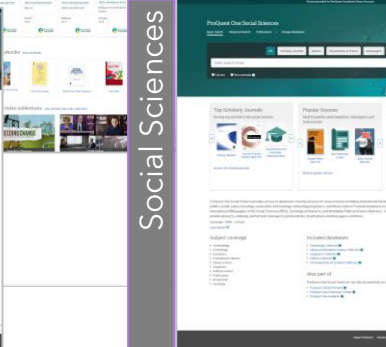
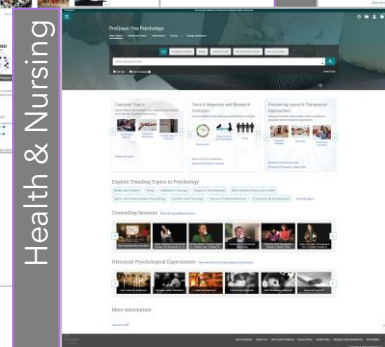
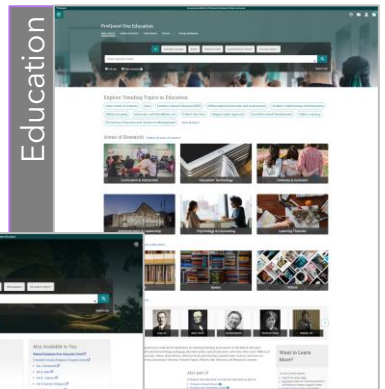
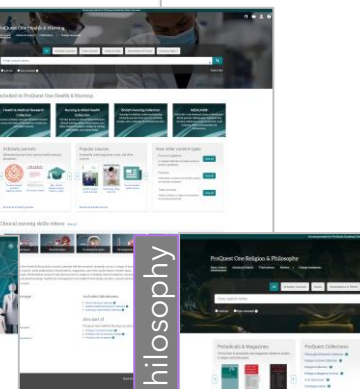
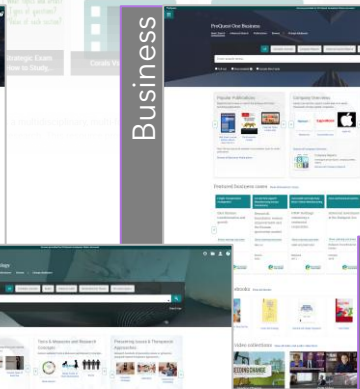
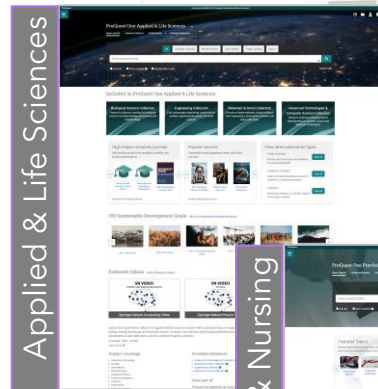
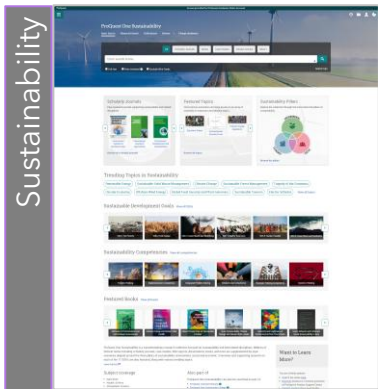
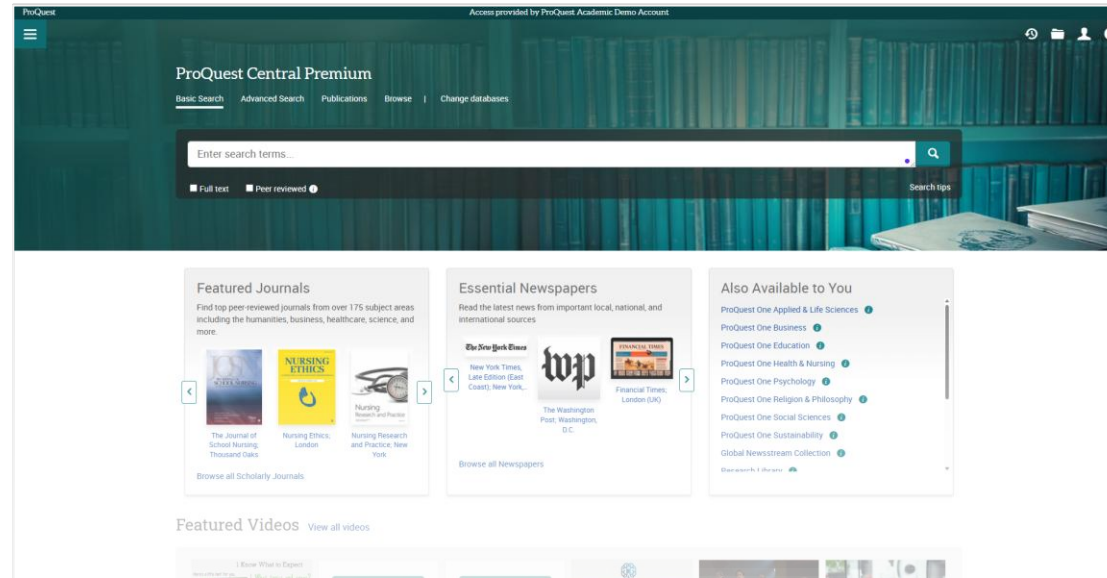


Billboard

Cross-search all resources or find users with their discipline needs in mind













ProQuest Central Premium includes content from 8 unique *ProQuest One* products that focus on key disciplines within the curriculum.

Each *ProQuest One* products presents content and features that inherently serve the needs of students and faculty in those areas of study.



ProQuest Central Premium: By the numbers

Multidisciplinary, multiformat content sources in one easy-to-use interface for the entire campus

 15,000+	 53,000+*	 450,000+	 50,000+
Full-text scholarly journals Key peer-reviewed sources, exclusive access to key titles.	Streaming video/audio + additional content from Medcom, Symptom Media, newspapers (NYT, Washington Post), CBS 60 minutes, and more.	Dissertations & theses Submitted from institutions around the world.	eBooks Over 50K titles from ProQuest One discipline products.
 1,600+	 3,300,000	 2,500,000	 6,300
Active full-text news sources Largest collection of contemporary news sources.	Working papers See cutting edge research before it's published.	Conference papers Content from global, national, and regional conferences.	Topic pages Understand a topic and relationships between topics.
 4,600+	 325,000	 780,000	 16,000
Magazines & trade journals The most sought out titles by students and faculty.	Case studies Across science, health, and medicine.	Reports (market, country & industry) The most complete coverage for business and economics.	Business cases Explore complex issues in real-life context.

News

Premier current news coverage with 40+ years of backfile

Researchers gain full-text access to over 1,600 sources from ProQuest's U.S., Canadian, and International Newsstream collections, including newspapers, newswires, broadcast transcripts, and websites, with an extensive archive reaching back to the 1980s, providing valuable historical context for their research.

THE WALL STREET JOURNAL.

The New York Times

theguardian

Le Monde



Premier Global Titles:

- Explore hundreds of U.S. and Canadian major dailies including *The New York Times*, *The Wall Street Journal* and *Globe and Mail* alongside leading international titles such as *The Guardian*, *Le Monde*, *The Times of India* and *The Age*.



Multi-Format Coverage:

- Extensive coverage across digital, print, and video news sources.
- Video sources are increasingly important to educators and researchers.
 - Watch *The New York Times* and *Washington Post* video, and *CBS 60 MINUTES* segments



Research Tools:

- Leverage ProQuest Research Assistant, an AI-powered tool that identifies document takeaways and suggests next research steps, plus detailed indexing, citation tools, and multilingual translation options.



2

A&I content

2. A&I content

Bibliographic indexes to support advanced research with reliable discovery of relevant literature across various disciplines.



20+ Discipline-specific A&I databases and content from respected databases:

- Wide range of disciplines
- Access to the latest research
- Precision and integration
- Comprehensive literature reviews and structured access
- Grey literature discovery (including full-text)



Highlighted databases include:

- MEDLINE
- ERIC
- AGRICOLA
- Sociological Abstracts
- Applied Social Sciences Index & Abstracts (ASSIA)
- And more



3

ProQuest One disciplines

Comprehensive and user-friendly resources designed to support the unique needs of those teaching, learning, and researching in the discipline.

3. ProQuest One disciplines

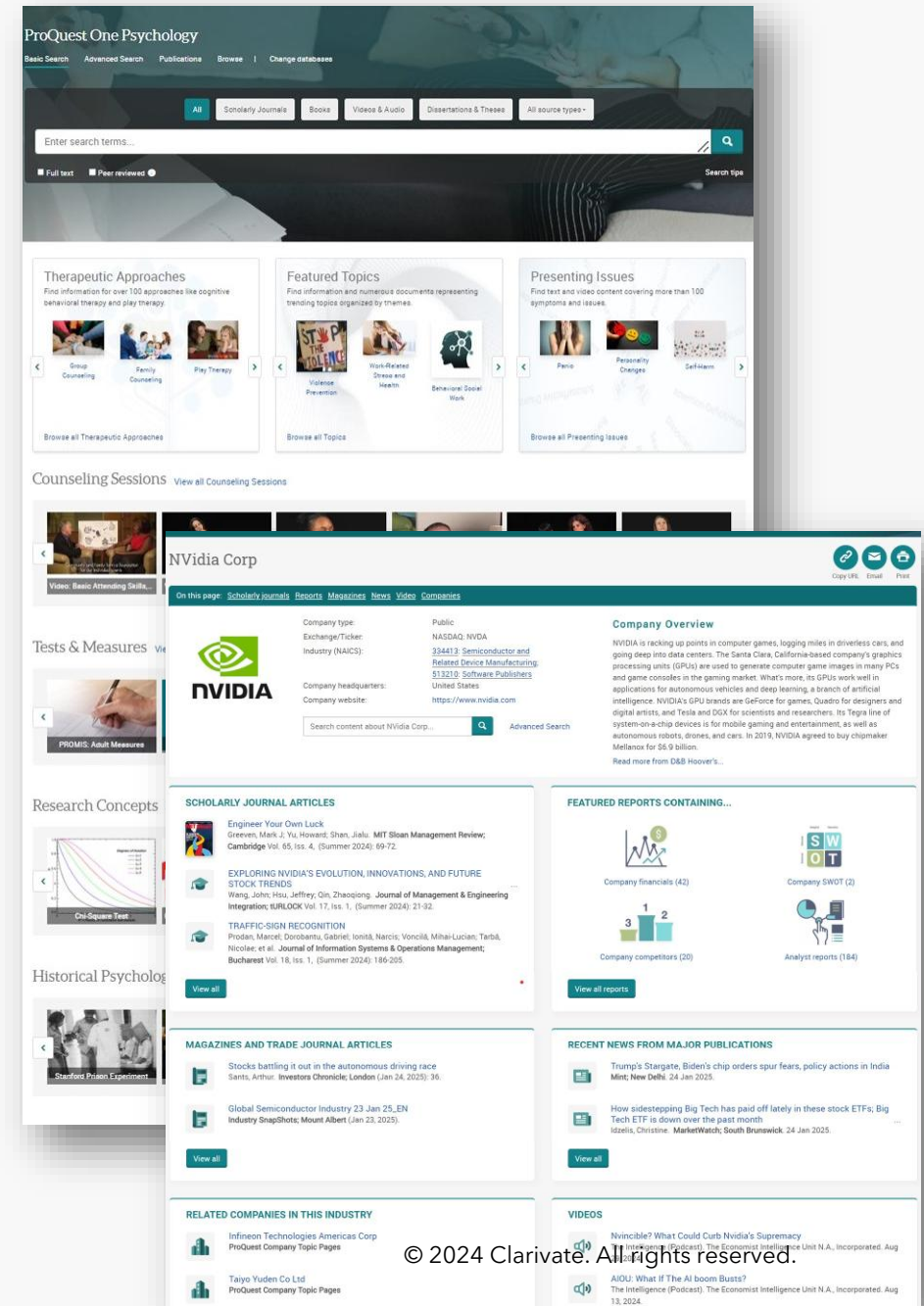
8 ProQuest One discipline solutions provide multiformat content catering to specific disciplines.

Cross-searchable within ProQuest Central Premium or access **stand-alone**.

Provide thoughtfully crafted, assignment-focused, and **curriculum-aligned discipline approach** to research, teaching, and learning.

Incorporating **topic pages** and **multiformat content** (including *videos, ebooks, journals, and primary sources*), these cater to each discipline's specific needs, providing essential resources for students and researchers to excel.

- Business
- Psychology
- Health & Nursing
- Applied & Life Sciences
- Sustainability
- Education
- Social Sciences
- Religion & Philosophy



ProQuest Central Premium Content Additions - Highlights

ProQuest One discipline solutions provide additional **multiformat content** catering to specific discipline needs

ProQuest One Business

- J. P. Morgan Research
- Entrepreneurship Collection
- 4,000 company & industry topic pages
- Business ebook Subscription

ProQuest One Psychology

- 2,500+ videos
- 1,700+ counseling transcripts
- 5,000+ curated ebooks
- 60k dissertations
- 1,000+ topic pages
- PTSDpubs

ProQuest One Social Sciences

- A&I content including Applied Social Sciences Index & Abstracts (ASSIA), National Criminal Justice Reference Service (NCJRS) Abstracts, Policy File Index, Sociological Abstracts and more

ProQuest One Applied & Life Sciences

- A&I content including Advanced Technologies & Aerospace Index, Biological Science Index, Engineering Index, and Materials Science Index

ProQuest One Education

- 12,500+ curated ebooks
- 5,500+ videos of teaching demonstrations, primary source footage and more
- 110,000+ dissertations
- Content indexed with ERIC
- 800+ topic pages
- Education Magazine Archive

ProQuest One Sustainability

- Nature Sustainability
- CABI Cases series of journals
- 500+ Topic Pages
- Sustainability ebook Collection
- 37,000+ dissertations
- A&I content including AGRICOLA

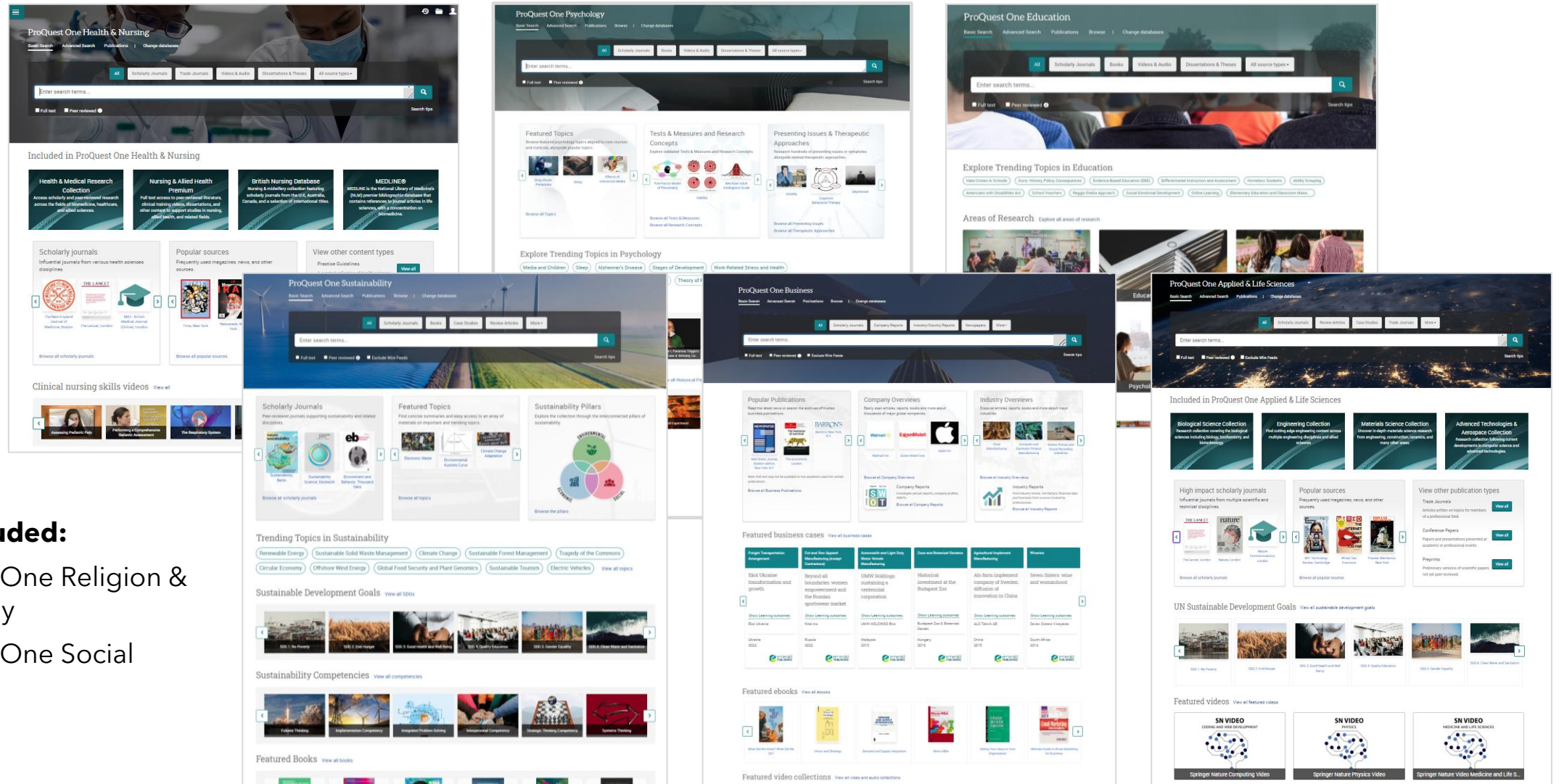
ProQuest One Health & Nursing

- A&I content including British Nursing Index, ComDisDome, MEDLINE, Sports Medicine & Education Index
- Nursing Education in Video and Clinical Nursing Skills in Video (streaming videos)

ProQuest One Religion & Philosophy

- Philosophy Research Collection
- Primary source content including:
- Digital Library of Classic Protestant Texts; and Catholic Reformation
 - Twentieth Century Religious Thought Library: Vol I - V
 - Religious Magazine Archive
 - Acta Sanctorum, Patrologia Latina, Luthers Werke

ProQuest One discipline lenses provide student and faculty focus



Also included:

ProQuest One Religion & Philosophy

ProQuest One Social Sciences

ProQuest One Topic Pages

Over 6,000 Topic Pages from our ProQuest One discipline products are provide users with one place to start their research on the most commonly studied and researched areas of a discipline, allowing them to:

- Quickly understand a topic
- Easily scan results by key content types
- Research it more deeply
- Explore it in its wider context
- Understand relationships between different topics.

The screenshot displays the ProQuest One Topic Page for 'Animal Production and Aquaculture'. The page is structured into several sections:

- Alpha Rhythms**: A sidebar on the left showing search results for 'Alpha Rhythms', including a classification in 'Biopsychology and Neuroscience' and a search bar.
- Industry Overview**: A central section providing a brief overview of the industry, stating that it involves raising animals for sale or production in controlled environments.
- Top companies in this industry**: A section featuring bar charts for major companies like Cal-Maine Foods Inc., Dairy Farmers of America, Miravia SA, Poulina Group Holding, and Kingflour PLC.
- RECENT NEWS ARTICLES**: A list of recent news items, such as 'Teals warn ALP majority must not kill crossbreed reform push' and 'World: How is the European Union fighting the latest outbreak of foot-and-mouth disease?'. Each item includes a small icon, a title, and a date.
- INDUSTRY REPORTS CONTAINING...**: A section with icons representing different report categories: 'Industry financials (2001)', 'Industry risk (1763)', 'Industry employment (393)', and 'Company financials (16)'. A 'View all reports' button is located at the bottom.
- SCHOLARLY JOURNAL ARTICLES**: A list of academic articles, including 'Comparison of blockchain vs. centralised IT infrastructure costs for food traceability' and 'Smart neck collar: IoT-based disease detection and health monitoring for dairy cows'. Each article entry includes a small icon, a title, and publication details.
- MAGAZINE AND TRADE JOURNAL ARTICLES**: A list of magazine and trade journal articles, such as 'U.S., Mexico settle pest mitigation dispute following U.S. threat to block livestock imports' and 'CANADA GRAINS 1 MAY 25_EN'. Each entry includes a small icon, a title, and publication details.
- ALL RESULTS OVER TIME**: A line graph at the bottom left showing the number of results over time, with a y-axis ranging from 0 to 1800.



4

ProQuest Research Assistant

ProQuest Research Assistant

Harnesses AI's powerful capabilities and applies them in a responsible, reliable manner as a research companion for students.

- Easily craft more effective and targeted searches
- More effectively review, analyze, and interrogate documents
- Quickly evaluate the usefulness of each document for your research
- Get guidance on next steps like choosing a research topic and understanding key concepts in the document



The screenshot displays the ProQuest Research Assistant interface. At the top, it shows the ProQuest Central Premium logo and the user's account information. The main content area displays a document titled "AI and XAI second opinion: the danger of false confirmation in human-AI collaboration" by Rosenbake, Rikard; Melhus, Åsa; McKee, Martin; Stuckler, David. The document is from the Journal of Medical Ethics, London, Vol. 51, Iss. 6, (Jun 2025): 396-399. The interface includes navigation options like "Back to results", "Full Text", and "Scholarly Journal". There are also icons for downloading the PDF, citing, copying the URL, printing, and viewing all options. The document content is displayed with highlighting, and there are options to translate and hide highlighting. The Research Assistant sidebar on the right provides "Insights" and "Key Takeaway" sections, along with "Additional topics discussed include" and "Relationship to your search terms". It also offers "Essential Details", "Findings and Conclusions", "Visualize Topics", "Important Concepts", and "Research Topics". A "More Like This" section suggests similar documents, and a "Search with Indexing Terms" section provides a list of related terms.

ProQuest Research Assistant - Search Helper and Document Insights

Designed to help students evaluate documents, craft better searches, and understand complex concepts

In search

1,215,094 results

319,214 results

6,730 results

More targeted results for users who start with search

In documents

Document insights & next steps for users who start on a document

Document Insights: analysis that goes beyond understanding a document

Task-oriented document view provides key next steps based on user context & document type

✦✦ Research Assistant

Key takeaway allows users to quickly determine relevance to their assignments

Here is the **key takeaway**.

False confirmation errors in AI-assisted medical decision-making can significantly decrease diagnostic accuracy, necessitating a cautious, evidence-based approach to integrating AI into clinical practice.

Additional topics discussed include:

- The impact of patient empowerment on second opinions
- The role of explainable AI in clinical decision-making
- Cognitive psychology techniques to mitigate decision-making errors

Relationship to your search terms:

The document discusses AI ethics in medical advice, particularly in the context of false confirmation errors and the need for critical engagement with AI outputs.

[Show less ^](#)

Important Concepts

define terms that are discussed in a document






Here are the important concepts.

1. **AI:** Artificial Intelligence (AI) is a central theme in the document, representing a technological tool that can provide second opinions in medical diagnoses. **Its significance lies in** the debate over its reliability and the potential for 'false confirmation' errors in clinical decision-making.
2. **XAI:** Explainable AI (XAI) refers to AI systems designed to provide understandable explanations for their decisions, which is crucial in medical contexts. **The document emphasizes** XAI's role in enhancing the transparency of AI diagnoses and mitigating the risks associated with false confirmations.
3. **Kempt and Nagel:** Kempt and Nagel are proponents of using AI for second opinions in medical diagnoses, advocating for a 'rule of disagreement' when AI's conclusions diverge from human assessments. **Their views are significant** as they represent one side of the ongoing ethical debate regarding AI's role in healthcare.
4. **Jongsma and Sand:** Jongsma and Sand argue for the necessity of a second human opinion regardless of AI's agreement, highlighting the fallibility of both human and AI judgments. **Their perspective is influential** as it challenges the reliance on AI and calls for a more cautious approach in clinical decision-making.
5. **false confirmation:** False confirmation is a critical concept

Research Topics

help users find new, related topics to expand their research

Here are related **research topics**.

1. **AI in medical second opinions:** Exploring the role of AI in providing second opinions can enhance diagnostic accuracy and patient care. 
2. **False confirmation in ai-assisted diagnosis:** Understanding false confirmation errors is crucial to prevent misdiagnoses and improve patient outcomes. 
3. **Explainable ai (xai) in healthcare:** XAI can improve trust and understanding in AI systems, facilitating better decision-making in clinical environments. 
4. **Cognitive biases in physician-ai collaboration:** Investigating cognitive biases can help mitigate errors in decision-making processes involving AI. 
5. **Ethical implications of ai in medicine:** Examining the ethical considerations surrounding AI use in healthcare is essential for responsible implementation. 

Document Insights: analysis that goes beyond understanding a document

Task-oriented document view provides key next steps based on user context & document type

✦ Research Assistant

Findings & Conclusions help make sense of complex research outcomes

Here are the **findings or conclusions**.

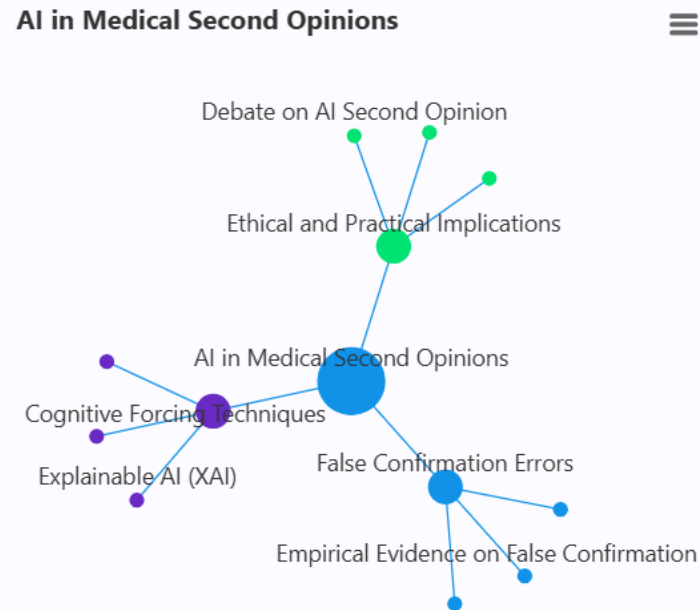
The document explores the implications of integrating artificial intelligence (AI) into the medical decision-making process, particularly regarding the use of AI as a second opinion in clinical settings. It aims to address the potential risks associated with "false confirmation," where AI erroneously validates incorrect human decisions, and to propose a framework for mitigating these risks.

The main findings of the document highlight several critical points:

- 1. False Confirmation Risks:** The study identifies that false confirmation errors can significantly undermine diagnostic accuracy, with rates potentially ranging from 5% to 30% in clinical practice. [1](#) [2](#) [3](#)
- 2. Debate on AI's Role:** There is a contrasting debate within the medical community regarding the role of AI in providing second opinions. Some advocate for AI's use when it aligns with human assessments, while others stress the necessity of a human second opinion regardless of AI's agreement. [4](#) [3](#)
- 3. Cognitive Biases:** The document discusses how cognitive biases, particularly confirmation bias, can lead physicians to accept AI confirmations without sufficient scrutiny, thereby increasing the

Mind Map visualizes the main topic and related subtopics to see a full picture of a document

Here's a **mind map** about this document's topics.



AI in Medical Second Opinions

The document explores the role, risks, and mitigation strategies of using artificial intelligence as a second opinion in clinical decision-making, focusing on the problem of false confirmation errors in physician-AI collaboration.

Essential Details help users understand each section of a document or article

Here are the **essential details**.

Main Argument

The article argues that AI is significantly transforming healthcare, particularly in developing countries, by enhancing diagnostic accuracy and improving patient care [1](#)

Supporting Points

AI tools like PANDA can aid in early detection of diseases such as pancreatic cancer, which is crucial for improving health outcomes [2](#); AI also optimizes imaging processes and fosters collaboration in cancer care [3](#); various AI applications are being utilized across African nations to address healthcare challenges [4](#)

Tone

Persuasive and analytical, emphasizing the potential benefits and challenges of AI in healthcare [1](#)

Author's Perspective

The author presents a positive view on the integration of AI in healthcare while acknowledging ethical concerns and disparities [4](#)

Key Takeaways

The successful deployment of AI in healthcare can lead to improved health outcomes, but it is essential to address ethical concerns and biases in AI systems [4](#)
includes human oversight. [2](#)

Research Assistant: Findings or Conclusions

inherent fallibility of both human and AI judgements, advocating a second human opinion regardless of AI's concurrence or dissent.

Underlying this debate is uncertainty about the prevalence and impact of 'false confirmation'—a scenario where the AI erroneously validates an incorrect human decision. Very limited data exist on the scope or scale of such occurrences.^{7,8} Our own preliminary empirical research⁹ and simulation studies¹⁰ suggest that the potential hazard of relying solely on AI for the incorrect confirmation from AI without voicing concerns may be a cognitive shortcut, reminiscent of the 'confirmation bias' often observed in human decision-making.

This risk could be substantial, echoing the concerns raised by researchers who have highlighted the potential for false confirmation or second opinions, especially in light of recent advances in AI-driven diagnosis, discussion and analysis of AI-driven diagnoses, and the need for a clear rationale for convergent or divergent diagnoses.

Within the context of physician-AI collaboration, with focus on joint physician-AI decision-making, revealing the potential for false confirmation. A subsequent study¹¹ on physician accuracy, highlighting the magnitude of the error, particularly decision-making rules and the risk of false confirmation when leveraging AI as a second opinion in clinical practice.

Students can find concise overviews that highlight the core findings and conclusions from an article. Each is accompanied by links that direct students to the exact text in the document from which the summary was created.

Framework to identify errors in human-AI/XAI decision-making

We can differentiate three distinct errors in joint physician-AI decision-making, to which we have assigned the following terminology: true conflict error—when the physician is incorrect but AI is correct; false conflict error—when the physician is correct but AI is incorrect; and false confirmation error—when the physician and AI agree but both are wrong⁹ (see table 1).

Table 1
Potential sources of error in human-AI/XAI collaboration⁹

	Physician right	Physician wrong
AI right	Correct	True conflict error
AI wrong	False conflict error	False confirmation error

Quote from document

Framework to identify errors in human-AI/XAI decision-making We can differentiate three distinct errors in joint physician-AI decision-making, to which we have assigned the following terminology: true conflict error—when the physician is incorrect but AI is correct; false conflict error—when the physician is correct but AI is incorrect; and false confirmation error—when the physician and AI agree but both are wrong⁹ (see table 1). Table 1 Potential sources of error in human-AI/XAI collaboration⁹ Physician right Physician wrong AI right Correct True conflict error AI wrong False conflict error False confirmation error

Show in document Copy quote

Here are the findings or conclusions.

The document explores the implications of integrating artificial intelligence (AI) into the medical decision-making process, particularly regarding the use of AI as a second opinion in clinical settings. It aims to address the potential risks associated with "false confirmation," where AI erroneously validates incorrect human decisions, and to propose a framework for mitigating these risks.

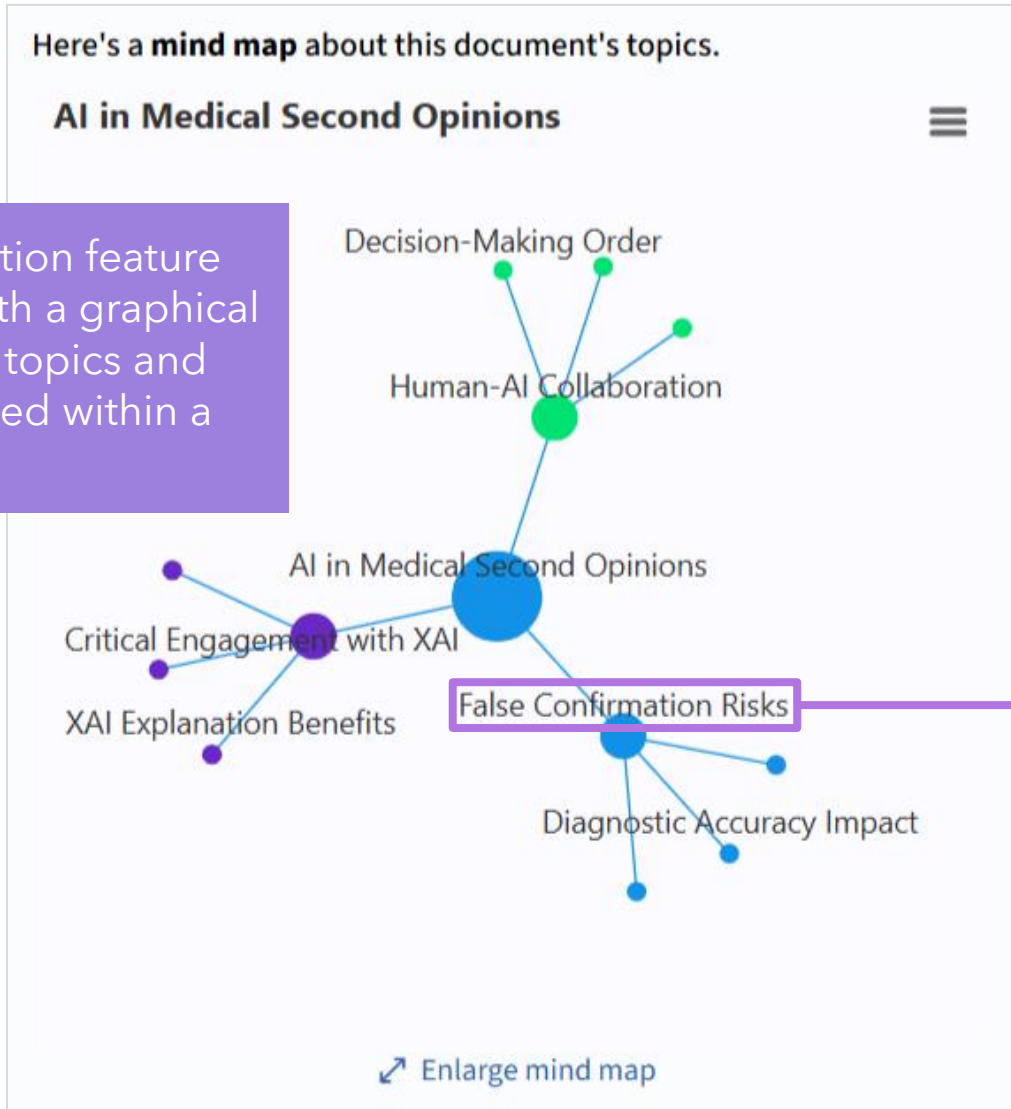
The main findings of the document highlight several critical points:

- 1. **False Confirmation:** The document identifies a significant risk of false confirmation, where AI erroneously validates incorrect human decisions, potentially leading to diagnostic errors. This risk is estimated to be between 10% to 30% in clinical settings.
- 2. **Confirmation Bias:** The document discusses how cognitive biases, particularly confirmation bias, can lead physicians to accept AI confirmations without sufficient scrutiny, thereby increasing the risk of diagnostic errors.
- 3. **Cognitive Biases:** The document discusses how cognitive biases, particularly confirmation bias, can lead physicians to accept AI confirmations without sufficient scrutiny, thereby increasing the risk of diagnostic errors.
- 4. **Framework for Errors:** A framework is proposed to categorize errors in physician-AI collaborations into three types: true conflict errors, false conflict errors, and false confirmation errors, each with distinct implications for clinical practice.
- 5. **Mitigation Strategies:** The authors suggest several strategies to mitigate the risks of false confirmation, including cognitive forcing techniques, nudging, and the use of explainable AI (XAI) to enhance understanding of AI-driven diagnoses.

In conclusion, the document emphasizes the need for a cautious and evidence-based approach to integrating AI into clinical decision-making.

Visualize the document: Mind Map

The new Visualization feature provides users with a graphical representation of topics and subtopics discussed within a document.



AI in Medical Second Opinions

The document discusses the role and challenges of using artificial intelligence as a second opinion in clinical decision-making, focusing on the risks of false confirmation and the potential of explainable AI.

False Confirmation Risks ^

This subtopic explores the prevalence of false confirmation errors where AI provides incorrect second opinions in clinical settings.

[More about False Confirmation Risks](#)

- **Confirmation Bias Heuristics**

Discusses how false confirmation errors resemble cognitive heuristics like confirmation bias affecting physician-AI collaboration.

[More about Confirmation Bias Heuristics](#)

- **Diagnostic Accuracy Impact**

Examines how false confirmation errors reduce diagnostic accuracy to between 5% and 30% in clinical practice.

[More about Diagnostic Accuracy Impact](#)

- **Simulation Evidence**

Reviews simulation studies demonstrating the pervasiveness of false confirmation errors in physician-AI decision-making.

[More about Simulation Evidence](#)

[Explainable AI Role](#)

[Human-AI Collaboration](#)

Brief descriptions of each subtopic are provided, along with what the document says about each one.

Get more detail about the subtopic within a document

Chat with a document

What is the role of AI (XAI) in clinical decision making?

Role of Explainable AI (XAI) in Clinical Decision Making

- The document states that XAI (explainable AI) is designed to clarify how AI systems reach their diagnoses, allowing physicians to understand and discuss the reasoning behind AI decisions (see "Framework to identify errors in human-AI/XAI decision-making").
- XAI can support more thorough decision-making by enabling doctors to compare their own clinical reasoning with the AI's logic, helping to spot differences or potential errors.
- However, the article notes that simply providing explanations through XAI did not significantly help physicians identify false confirmation errors without critical review, as the frequency of false confirmations remained high.
- In summary, XAI can support clinical thinking, but physicians engage

Students can ask questions about documents and receive answers based **solely on that document's content**. This "chat with the document" capability includes **multi-lingual support** and continues our commitment to keeping AI grounded in high-quality sources and context.


"Quel est le rôle de l'intelligence artificielle explicable (XAI) dans la prise de décision clinique?"

Rôle de l'intelligence artificielle explicable (XAI) dans la prise de décision clinique

- Selon le document, l'IA explicable (XAI) vise à fournir des explications sur la façon dont l'IA arrive à ses diagnostics, permettant ainsi aux médecins de mieux comprendre et discuter les raisons derrière les décisions de l'IA (voir « Framework to identify errors in human-AI/XAI decision-making »).
- XAI peut enrichir le processus de prise de décision en favorisant une analyse comparative entre le raisonnement du médecin et celui de l'IA, ce qui aide à détecter des divergences ou des erreurs potentielles.
- Cependant, l'étude citée dans l'article montre que l'ajout d'explications XAI n'a eu que peu d'effet sur l'identification des erreurs de confirmation fausse, car les médecins acceptaient souvent les confirmations de l'IA sans les remettre en question (voir « Empirical evidence of the frequency of false confirmations »).
- En résumé, XAI a le potentiel d'améliorer la transparence et la réflexion critique, mais son impact réel dépend de la façon dont les médecins utilisent et interrogent ces explications.

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Chat guardrails


When is the best time to invest in stocks? 

What I Can Do

- I can't provide financial advice or recommendations about paying off a mortgage, as that's outside the scope of this platform.
- My role is to help you understand and analyze the scholarly document you are viewing on ProQuest.
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AlZaabi, A and Masters, K
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EISSN: 1533-4406
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Journal information

EDITION: Science Citation Index Expanded (SCIE)
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LANGUAGE: English
REGION: USA
1ST ELECTRONIC JCR YEAR: 1997

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Title	Citation Count
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Lecanemab in Early Alzheimer's Disease	739
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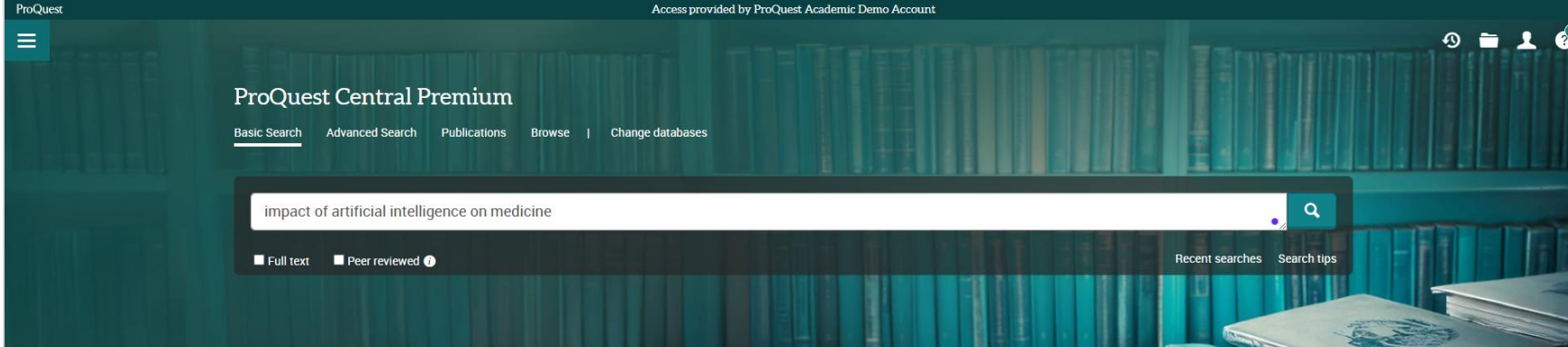
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4 **A pathway from fragmentation to interoperability through standards-based enterprise architecture to enhance patient safety** Full Text
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Journal of International Crisis and Risk Communication Research; Orlando Vol. 7, Iss. S6, (2024): 939-951.
 ...of modernizing its healthcare system. Patient safety is a fundamental aspect of...
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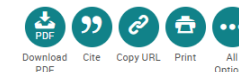
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Stark, Laura. [The New England Journal of Medicine](#); Boston Vol. 389, Iss. 24, (Dec 14, 2023): 2213-2215. DOI:10.1056/NEJMp2309872



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Abstract

Medicine's Lessons for AI Regulation

There are various possible futures for regulation of artificial intelligence in the United States. The history of rules governing the treatment of human subjects could hold important insights.

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Regulation of artificial intelligence (AI) is imminent in the United States and much of the world. In October, President Biden issued an executive order on AI, and lawmakers hope to pass legislation soon. Several U.S. states have already taken action on AI oversight. The European Union issued draft rules, which will be adopted in the coming months, that differ substantially from U.S. proposals. This range of jurisdictions and rules suggests that there are various possible futures for AI regulation in the United States. The path forward will have important effects on medicine.

This is far from the first time the United States has written rules to safeguard the public as science reached new capacities. Next year marks the 50th anniversary of the National Research Act, which created rules for the treatment of human subjects in medicine. Like AI regulations, rules for the treatment of human subjects were put in place swiftly during a time of intense public scrutiny of unethical uses of science. In 1972, the racial injustices of the Tuskegee Study of Untreated Syphilis were revealed in the U.S. mass media.¹ Although this unethical research had been under way for four decades, with results published in scientific journals, Tuskegee's exposure in the popular press galvanized lawmakers to pass legislation on research with human subjects that had been in the works for years.² Moreover, like the use of AI today, human-subjects research in the 1970s was a long-standing practice that held new potential, had innovative applications, received unprecedented levels of funding, and was taking place on a new, larger scale. And like the use of AI today, research using human subjects in the 1970s was both exciting and risky, with many effects unknown – and unknowable.

Rules governing the treatment of human subjects have traveled a bumpy road since they were first passed in 1974. Their history holds insights for AI regulation that aims for efficiency, flexibility, and greater justice.

Formal rules for the treatment of human subjects had been debated among scientists and policymakers in the United States for decades before any were enacted. The core disagreement was less about the content of potential rules – what they should say – than about who should regulate: the government or professions. Henry K. Beecher is often celebrated as a founder of American bioethics, yet he opposed government regulation of human-subjects protections. Instead, Beecher and his allies advocated for a renewed commitment to professional ethics, which would involve scientists retaining the power to judge the moral acceptability of their own actions. As Beecher told his Harvard colleagues in 1958, “These matters are much too complex, it seems to me, to permit the establishment of rigid rules in most cases.”³

Several years later, Beecher published his famous article “Ethics and Clinical Research.” In it, he underscored his view that professional judgment, rather than government regulation, was the best mode of oversight. “A far more dependable safeguard than consent,” he wrote, “is the presence of a truly responsible investigator.”⁴ At stake was scientific autonomy and the power of experts in a democracy. In practical terms, the issue was enforcement – specifically, whether rules regarding the treatment of human subjects would carry the force of law or only the soft discipline of colleagues.

Debates over AI have raised similar issues about the appropriate relationship between government and professional authority in the regulation of science. In July 2023, leaders of seven top AI companies made voluntary commitments to support safety, transparency, and antidiscrimination in AI. Some leaders in the field also urged the U.S. government to enact rules for AI, with the stipulation that AI companies set the terms of regulation. AI leaders' efforts to create and guide their own oversight mechanisms can be assessed in a similar light to Beecher's campaign for professional autonomy. Both efforts raise questions about enforcement, the need for hard accountability, and the merits of public values relative to expert judgement in a democracy.

Ultimately, Beecher and his supporters lost the debate over professional versus governmental oversight. In the years after Congress passed the National Research Act, administrators wrote the regulations that ushered in institutional review boards and formalized consent practices. The 1979 Belmont Report, which was mandated by the Act, established the philosophical underpinnings of the nuts-and-bolts regulation. The Belmont principles – respect for persons, beneficence, and justice – linked directly to regulatory requirements regarding consent documentation, risk-benefit calculations, and nondiscriminatory recruitment of subjects.

In each of these efforts, policymakers focused on the living people involved in biomedical studies – that is, “human subjects.” During the same decade, projects involving human genetic material and genetic data were proliferating. Yet protections for people as “data subjects” were largely omitted from the regulations. In the 1990s, Indigenous communities led the way in protesting researchers' unethical extraction and use of genetic material. Such protests moved the government toward stronger guidelines for the data that underpin new science. In one landmark case, the Havasupai tribe in the U.S. Southwest sued Arizona State University for unauthorized use of members' genetic material to generate

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Here is the key takeaway.

The history of human-subjects research provides critical insights for the regulation of AI, emphasizing the need for nimble rules that prioritize data ethics and the role of professional versus governmental oversight.

Additional topics discussed include:

- Data ethics in AI regulation
- The role of professional oversight versus government regulation
- The importance of adaptive regulatory frameworks for emerging technologies

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The document explores the parallels between the regulation of artificial intelligence (AI) and the historical regulation of human subjects in medical research, particularly in the context of the United States. Its primary goal is to draw lessons from past experiences in medical ethics and regulation to inform the future of AI oversight, emphasizing the need for a flexible and responsive regulatory framework.

The main findings of the document highlight several key points:

- 1. Historical Context:** The regulation of human subjects emerged in response to unethical practices, such as the Tuskegee Study, which galvanized public and legislative action. This historical precedent suggests that AI regulation may similarly evolve in response to public scrutiny and ethical concerns. [1](#) [2](#)
- 2. Professional vs. Government Oversight:** The document discusses the ongoing debate about the appropriate balance between professional autonomy and government regulation. Historical figures like Henry K. Beecher advocated for professional ethics over government oversight, a sentiment echoed in contemporary discussions about AI regulation, where industry leaders seek to shape their own regulatory frameworks. [3](#) [4](#)
- 3. Data Ethics and Protections:** The document emphasizes the importance of protecting individuals not just as human subjects but also as data subjects, particularly in light of the increasing use of personal data in AI systems. Historical cases, such as the Havasupai tribe's lawsuit, illustrate the need for clear rights regarding data.

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The history of human-subjects research provides critical insights for the **regulation of AI**, emphasizing the need for nimble rules that prioritize **data ethics** and the role of professional authority versus **government oversight**.

Additional topics discussed include:

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- The role of professional authority in **science regulation**

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1. **Henry K. Beecher**: A prominent figure in American bioethics who opposed government regulation of **human-subject protections**, advocating instead for professional ethics. His views on scientific autonomy and professional judgment are paralleled in contemporary debates about **AI regulation**.
2. **National Research Act**: A significant piece of legislation passed in the United States that established rules for the **treatment of human subjects in research**. Its historical context provides insights into the current regulatory landscape for AI.
3. **Tuskegee Study**: An unethical research study that revealed racial injustices and led to public outcry, ultimately influencing **legislation on human subjects**. This case serves as a cautionary tale for the ethical considerations necessary in AI applications.
4. **Belmont Report**: A foundational document that

Brainstorm **research topics** based on this document.

Here are **research topics** based on this document.

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2. **Historical lessons from human-subjects research**: Examining the history of human-subjects research can inform current AI regulatory practices and ethical considerations.
3. **Professional vs. government oversight**: Investigating the balance between professional autonomy and government oversight is essential for effective AI regulation.
4. **Data ethics in ai**: Focusing on data ethics is vital for addressing concerns related to data collection, ownership, and user rights in AI applications.
5. **Regulatory adaptability for emerging technologies**: Ensuring that regulations can adapt to rapidly

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Instead, Beecher and his allies advocated for a renewed commitment to professional ethics, which would involve scientists retaining the power to judge the moral acceptability of their own actions. As Beecher told his Harvard colleagues in 1958, "These matters are much too complex, it seems to me, to permit the establishment of rigid rules in most cases."³ Several years later, Beecher published his famous article "Ethics and Clinical Research." In it, he underscored his view that professional judgment, rather than government regulation, was the best mode of oversight. "A far more dependable safeguard than consent," he wrote, "is the presence of a truly responsible investigator."⁴ At stake was scientific autonomy and the power of experts in a democracy. In practical terms, the issue was enforcement – specifically, whether rules regarding the treatment of human subjects would carry the force of law or only the soft discipline of colleagues.

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... from the history of human subjects research provide a foundational framework for navigating the complexities of AI regulation in the modern era.

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- Aleut
- Algonquian languages
- Amharic
- Ancient Greek

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Web of Science integration

Seamless linking between platforms

- Journal analytics accessible from direct link on ProQuest Platform.
- Link to full text on ProQuest Platform, when available

Journal information

Science Citation Index Expanded (SCIE)

Category: MEDICINE, GENERAL & INTERNAL

Language: English | Region: USA | 1st Electronic JCR Year: 1997

Publisher: MASSACHUSETTS MEDICAL SOC | Address: WALTHAM WOODS CENTER, 860 WINTER ST, WALTHAM, MA 02451-1413 | Publication Frequency: 52 issues/year

Journal's performance

Journal Impact Factor (JIF)

2023 JOURNAL IMPACT FACTOR: **96.3** | JOURNAL IMPACT FACTOR WITHOUT SELF-CITATIONS: **95.6**

Journal Impact Factor Trend 2023

JCR Year	JIF
2019	~75
2020	~90
2021	~170
2022	~155
2023	96.3

Journal Impact Factor contributing items

Title	Citation Count
Efficacy and Safety of the mRNA-1273 SARS-CoV-2 Vaccine	1427
Dexamethasone in Hospitalized Patients with Covid-19	997
Empagliflozin in Heart Failure with a Preserved Ejection Fraction	794
Lecanemab in Early Alzheimer's Disease	739
Covid-19 Vaccine Effectiveness against the Omicron (B.1.1.529) Variant	685
New Creatinine- and Cystatin C-Based Equations to Estimate GFR without Race	633
Oral Nirmatrelvir for High-Risk, Nonhospitalized Adults with Covid-19	631
Monkeypox Virus Infection in Humans across 16 Countries - April-June 2022	600
Dapagliflozin in Heart Failure with Mildly Reduced or Preserved Ejection Fraction	524
Once-Weekly Semaglutide in Adults with Overweight or Obesity	503

Journal Citation Indicator (JCI)

2023 JCI: **25.31**

Total Citations

405,033

Citation network

Cited Half-life: 8.0 years | Citing Half-life: 5.0 years

Citation distribution

47 items | 28 citations | 6.84%

Content metrics

Source data: 300 total citable items

Average JIF Percentile: 99.5

Contributions by organizations

Contributions by country/region

Open Access (OA)

Items: 844 (2.31%) | Citations: 36,390 (8.96%)

Additional metrics

Eigenfactor Score: 0.56118 | Normalized Eigenfactor: 122.29263 | Article Influence Score: 0.1613

5 Year Impact Factor: 94.3 | Immediacy Index: 21.6

ProQuest Central Premium

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Back to results 1 of 1,030,511 Full Text | Audio or Video Work

Transcript Embed

Search transcript

00:00:00 TRANSCRIPT OF VIDEO FILE:

00:00:00 BEGIN TRANSCRIPT:

00:00:00 Is it a problem if AI hallucinates?

00:00:00 UNKNOWN : Large language models hallucinate. This is a word that computer scientists have co-opted to mean that they make things up. The fact that models hallucinate is often seen as a bad thing. But what's your view on this?

00:00:10 Abby Bertics

00:00:10 ABBY BERTICS : I think one of the really funny things is that the first time that you'll see the word hallucination used in like AI literature was, I think in the 2000s and it was used in a very positive context. Computer scientists that were working on computer vision were actually trying to get the models to hallucinate, because what they wanted to do was take a blurry image and make it sharper. And the only way to do that is by inventing

Is It A Problem If AI Hallucinates, in Economist Video
 in *Economist Video*. Economist Video. The Economist Intelligence Unit N.A., Incorporated. Jan 1, 2024.

Cite Copy URL Print All Options

Bi-directionally translate text of transcript, articles, or other text into 20 languages

Abstract
 Translate

Navigating the concept of hallucination in large language models: from its historical use in AI for enhancing images to the challenge of balancing creativity with factual accuracy in modern AI applications.

Details

Subject	Software; Artificial intelligence
Business indexing term	Subject: Artificial intelligence
Production company	The Economist
Identifier / keyword	Global Issues; Social Sciences; Environment and Social Issues; No
Clip length	00:01:28
Title	Is It A Problem If AI Hallucinates, in Economist Video
Publication title	Economist Video; London
Publication year	2024
Publisher	The Economist Intelligence Unit N.A., Incorporated
Place of publication	London

Here is the **key takeaway** for this document.

The concept of hallucination in AI, particularly in large language models, is complex, as it can be both a necessary aspect of creativity and a challenge to factual accuracy. Additional topics discussed in the text are: the historical context of hallucination in AI, particularly in computer vision, and the balance between creativity and factual accuracy in AI applications. These topics are significant for researchers as they highlight the evolving understanding of AI capabilities and the implications for future developments.

Understanding whether it is a problem if AI hallucinates is crucial for navigating the balance between creativity and accuracy in AI applications.

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Brainstorm **research topics** based on this document.

Here are **research topics** based on this document.

- AI hallucination in language models: Understanding AI hallucination is crucial for improving the reliability and accuracy of language models in various

Research Assistant now provides insights from video transcripts

NEW! Insight, guidance, and next steps delivered by responsible, curated AI

Dissertations become the beginning, and not the end, of discovery

The screenshot displays the ProQuest Central Premium interface. The main document is a dissertation titled "HARNESSING ARTIFICIAL INTELLIGENCE-DRIVEN PLATFORMS TO ADDRESS GLOBAL HEALTH CHALLENGES: FROM HEALTH AND FOOD SECURITY TO HEALTHCARE" by Peter Wen-Yow Wang, submitted for a Ph.D. at the National University of Singapore in 2023. The document is displayed in a viewer with a left sidebar for navigation (Full text - PDF, Abstract/Details, References, Documents with shared references) and a right sidebar for the Research Assistant. The Research Assistant sidebar provides AI-generated insights: a key takeaway about the IDentif.AI platform's potential, additional topics discussed (Antimicrobial resistance, Food security, AI-driven optimization), and foundational research including a paper by Blasiak, A. (2022) and a paper by Mukherjee, Devika, et al. (2022). At the bottom of the sidebar are buttons for "Brainstorm related research topics" and "Describe the important concepts."

A **key takeaway** allows users to quickly determine relevance

NEW Available only for Dissertations

Users are guided to related resources such as **similar dissertations** or highly-cited sources of **foundational research...**

...or to a set of **suggested research topics** based on the document



Let's review

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Think forward™

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