

의학논문 읽기 및 검색

- 2023 신입전공의 교육-

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논문이란?

논문이란 무엇인가?

INVESTIGATIVE AND CLINICAL UROLOGY
ICUROLOGY

icurology.org

Platinum open access journal
Indexed in MEDLINE, SCIE, Scopus, DOAJ and more
pISSN 2466-0493 eISSN 2466-054X

About

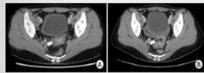
View Full-text

For Contributors

Search

Original Article

New Jan 2023 (v64 n1)



Endourology/Urolithiasis

Effects of hormone therapy on the clinical outcomes of endoscopic intervention in patients with endometriosis-related ureteral obstruction

Kim J, Boo Y, Lee CU, Ko KJ, Chung JH, Sung HH, Baek M, Jeon SS, Han DH.

<https://doi.org/10.4111/icu.20220224>

Abstract			Peer Review		
Abstract	11 (24.4%)	14 (29.2%)	Peer Review	11 (24.4%)	14 (29.2%)
Abstract	6.0%	7.9%	Peer Review	6.0%	7.9%
Abstract	6.0%	7.9%	Peer Review	6.0%	7.9%

Abstract			Peer Review		
Abstract	11 (24.4%)	14 (29.2%)	Peer Review	11 (24.4%)	14 (29.2%)
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Abstract	6.0%	7.9%	Peer Review	6.0%	7.9%

Early View

Past Issues

e-Submission

ICUrology on

Medline

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Web of Science

Search

Article Title, Author, Keywords

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논문이란 무엇인가?

- 과학계의 의사 소통 방법
- 최초의 학술지 – 300여년 전 (1665)

Journal des Scavans (France)

- 현재 학술 논문의 형태 – 100년 전
- 초기 논문: 기술적(descriptive) 형태

‘이것은 이러하고, 저것은 저러했다’

=> 가설 및 검증의 형태로 발전

논문을 쓰는 이유는?

- 본인의 연구 성과를 알린다.
 - 메시지를 전달한다.
 - 연구 방법에 대한 객관적인 검증을 받는다.
 - 가장 정확한 학술적 의사소통 수단
 - 본인의 연구 업적을 쌓는다.
 - 취업
 - 승진
 - 대학평가
-

논문을 쓰는 현실적인 이유는 ?

전문의 자격시험

마. 원서 접수 제출 서류

1) 논문 (별책으로 제출) - 각 1부

논문 제출	1편의 논문을 제출하되 원자가 1편 이상이어야 한다.
원저	<ul style="list-style-type: none">① 응시자는 제1저자이어야 하며 한국연구재단 등재지 및 등재후보지 또는 SCI(E) 잡지에 출간 또는 채택(accepted) 되어야 한다.② 원저에는 응시자 이외의 비노의학과 전공의도 참여저자로 포함될 수 있다. (단, 공동 제1저자는 인정하지 않고, 단독 제1저자여야 한다.)③ 증례보고는 원저가 될 수 없다.

* 게재예정증명서는 반드시 학회지 발간 단체의 직인이 들어간 원본으로 1부만 제출 또는 accept 메일 프린트 1부

* 제58차 전문의 고시부터 개정안 적용

의학논문을 읽는 이유는?

- 근거 중심의학(Evidence-Based Medicine)의 실현

“현재 존재하는 최고의 근거를 양심적이고, 명백하며, 분별 있게 이용하여 개별 환자의 치료를 결정한다”

- 최신 의학지식의 습득

- 최신 학술 동향을 파악

- 강의 준비..

- 저널리뷰 발표 준비..

근거중심의학 - 비판적인 정보습득

- 일화에 근거한 임상적 의사결정

“ 20년 전에 만났던 환자에게 이러저러하니까 좋아졌어”

- 객관적인 의사결정을 돕기 위해

- 특정 논문에 근거한 임상적 의사결정

*“ 최신 논문에 16세 미만의 요로감염증 환자는 반드시 전문가에게
검사를 의뢰하라는 내용이 실렸어”*

- 결과를 얻기까지의 방법이 중요

(무작위 배정?, 대조군?, 참여대상자, 중도탈락자)

근거중심의학 - 비판적인 정보습득

- 경험자의 의견에 근거한 임상적 의사결정

“ 분석 논문(review paper)에 이러한 치료가 우수하다고 되어 있어”

- 특정 임상분야 전문가라 하더라도 편견없이 문헌 고찰을 하여 모든 가능한 근거를 이용하여 객관적인 분석 논문을 쓰는 것은 매우 어렵다.

- 비용 최소화에 근거한 임상적 의사결정
-

논문? (Journal vs. Article)

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Guidelines – Sexual Medicine

Guidelines on Male Sexual Dysfunction: Erectile Dysfunction and Premature Ejaculation

Konstantinos Hatzimouratidis^{a,*}, Edouard Amar^b, Ian Eardley^c, Francois Giuliano^d, Dimitrios Hatzichristou^a, Francesco Montorsi^e, Yoram Vardi^f, Eric Wespes^g

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^fDepartment of Neuro-Urology, Rambam Medical Centre and Technion Faculty of Medicine, Haifa, Israel

^gHôpital Civil de Charleroi, Hôpital Erasme, Urology Department, Brussels, Belgium

Article info

Article history:

Accepted February 10, 2010

Published online ahead of print on February 20, 2010

Keywords:

Erectile dysfunction
Male sexual dysfunction
Premature ejaculation

Abstract

Context: Erectile dysfunction (ED) and premature ejaculation (PE) are the two most prevalent male sexual dysfunctions.

Objective: To present the updated version of 2009 European Association of Urology (EAU) guidelines on ED and PE.

Evidence acquisition: A systematic review of the recent literature on the epidemiology, diagnosis, and treatment of ED and PE was performed. Levels of evidence and grades of recommendation were assigned.

Evidence synthesis: ED is highly prevalent, and 5–20% of men have moderate to severe ED. ED shares common risk factors with cardiovascular disease. Diagnosis is based on medical and sexual history, including validated questionnaires. Physical examination and laboratory testing must be tailored to

SCI 논문이란?

- SCI에 등재된 논문
 - Science Citation Index (과학 기술논문 인용색인)
 - 미국 과학정보연구소(ISI : Institute for Scientific Information)가 과학기술분야학술잡지에 게재된 논문의 색인을 수록한 데이터베이스
 - 학술지가 얼마나 많이 인용되었는지에 대한 지표
 - SCI 등재여부
 - 학술지의 평가 기준 (세계적 권위를 인정)
-

SCI 논문이란?

- SCI 등재 논문 - 3,300여종
- SCIE (SCI extended) – 5,300여종
- SCI 등재 논문 수 및 인용도
 - 국가, 기관 간의 연구 수준을 비교하는 지표
 - 연구비 지원, 학술상 심사 등의 반영자료

IF 란?

- 영향력 계수(Impact Factor)

: 특정 기간 동안 한 학술지에 수록된 하나의 논문이 다른 논문에 인용된 평균 횟수

= 학술지의 논문이 인용된 총 횟수 / 학술지에 수록된 논문 수

- 학술지 평가를 위한 인용 분석 자료

Article 의 종류

- **Original article**
 - **Case report**
 - **Review paper**
 - **Meta-analysis**
 - **Editorial comments**
 - **Guidelines**
 - ...
-

논문의 구성

- 논문 구성의 표준적인 형태: **IMRAD**

(Introduction, Methods, Results And Discussion)

- **Introduction:** ‘어떤 의문이 연구되었는가’
 - **Methods:** ‘어떤 방법으로 연구되었는가?’
 - **Results:** ‘무엇을 발견하였는가?’
 - **Discussion:** ‘그 결과가 무엇을 의미하는가?’
-



논문의 구성



Original Article 의 구성

- **Title**
 - **Abstract**
 - **Introduction**
 - **Materials and Methods**
 - **Results**
 - **Discussion**
 - **Conclusion**
 - **Reference**
-

Title and Abstract

- Title

- 논문의 이름
- 논문의 핵심적인 정보 포함

“Effect of reducing intern’s work hours on serious medical errors in intensive care units”

Title and Abstract

- **Abstract**

- 논문의 얼굴

- 논문의 핵심내용 모두 포함

- Purpose (introduction)

- 연구 배경

- Materials and methods

- 연구 방법의 핵심적인 내용

- Results

- 주요 결과

- Conclusions

- 연구의 의미에 대한 간단한
결론

Introduction

- 연구 주제의 배경
- 이 분야의 선행 연구
- 선행 연구들이 가지고 있는 제한점
- 그 제한점을 해결하기 위한 연구자의 계획

Materials and Methods

- 연구 설계
- 연구 대상
- 무엇을 측정하였는지 - endpoint
- 어떻게 분석하였는지

Results

- 측정 항목들(endpoints)을 기술

- 기술적 결과 (descriptive)
- 분석적 결과 (analytic)

- 기술적 결과

“연구 대상은 위암 환자 150명인데, 그 중 60%는 흡연자이다”

“연구 대상의 평균 연령은 65 ± 12 세이다”

- 분석적 결과

“혈당의 평균값은 천식환자군에서 10mg/dL 더 높은 것으로 나타났다 ($p = 0.012$)”

Discussion

- 정확하게 연구 결과가 보여주는 것은 무엇인가?
- 그것이 의미하는 바는?
- 결과가 달리 해석될 수도 있을까?
- 다른 선행 연구들과 결과가 비슷한가?
- 이 연구의 강점과 단점은?

Conclusion

- 연구의 핵심 메시지를 간단히 요약
-

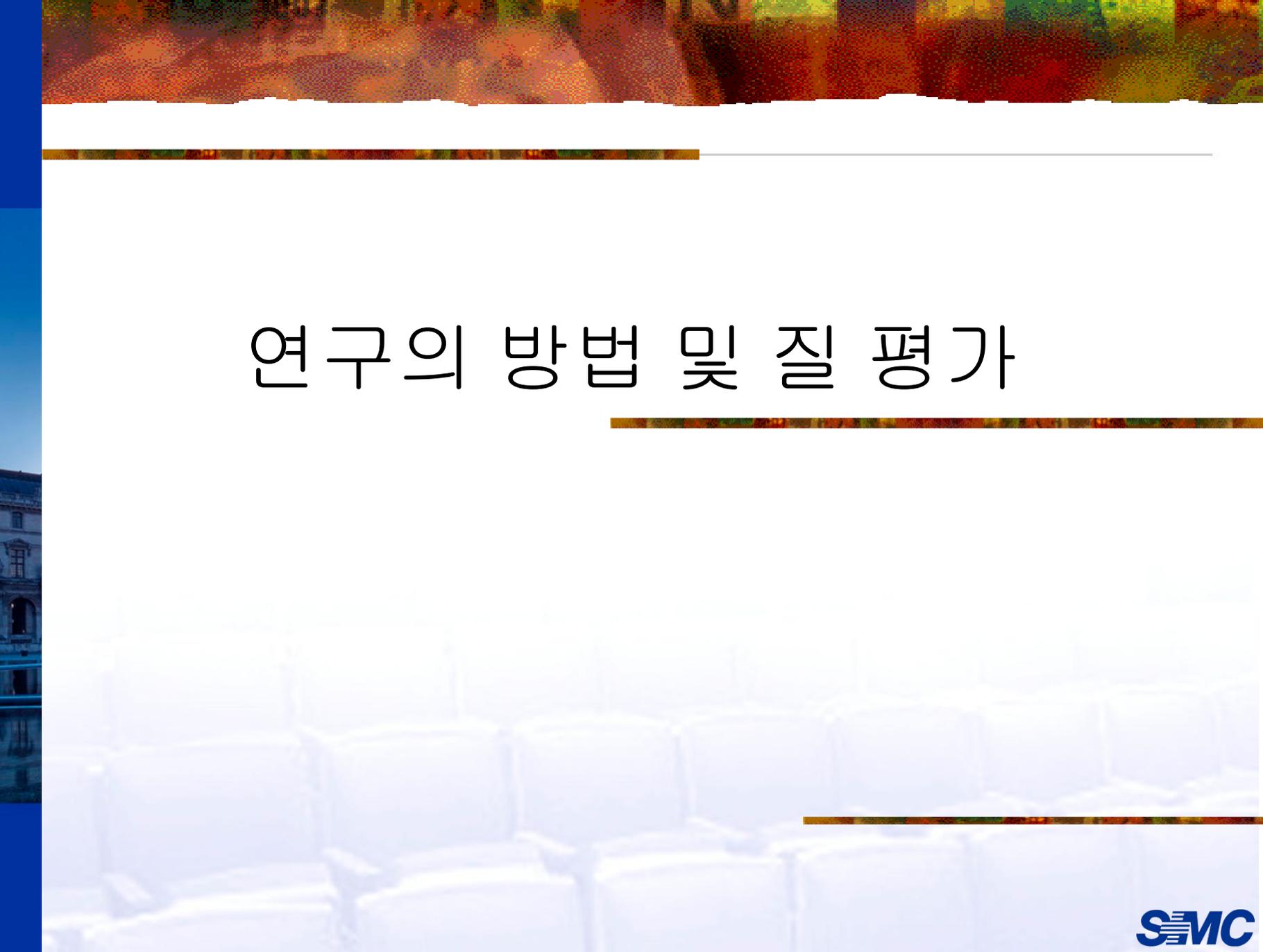
논문의 빠른 이해를 위한 Tip

- 논문의 주제가 되는 **topic**에 대한 사전 지식이 있어야 한다. *“아는 것 만큼 보인다”*

- 제목과 초록을 공략한다.

=> **figure** 및 **table** 의 내용을 이해한다.

=> 필요한 부분을 본문에서 찾아 읽어 논문에 대한 지식을 보충한다.



연구의 방법 및 질 평가

논문의 가치 평가

“모든 논문(연구)이 동등한 가치를 갖지는 않는다.”

“출판된 논문이 모두 반드시 가치를 갖는 것은 아니다”

• 논문이 읽을 만한 가치가 있는가?

- 흥미로운 가설

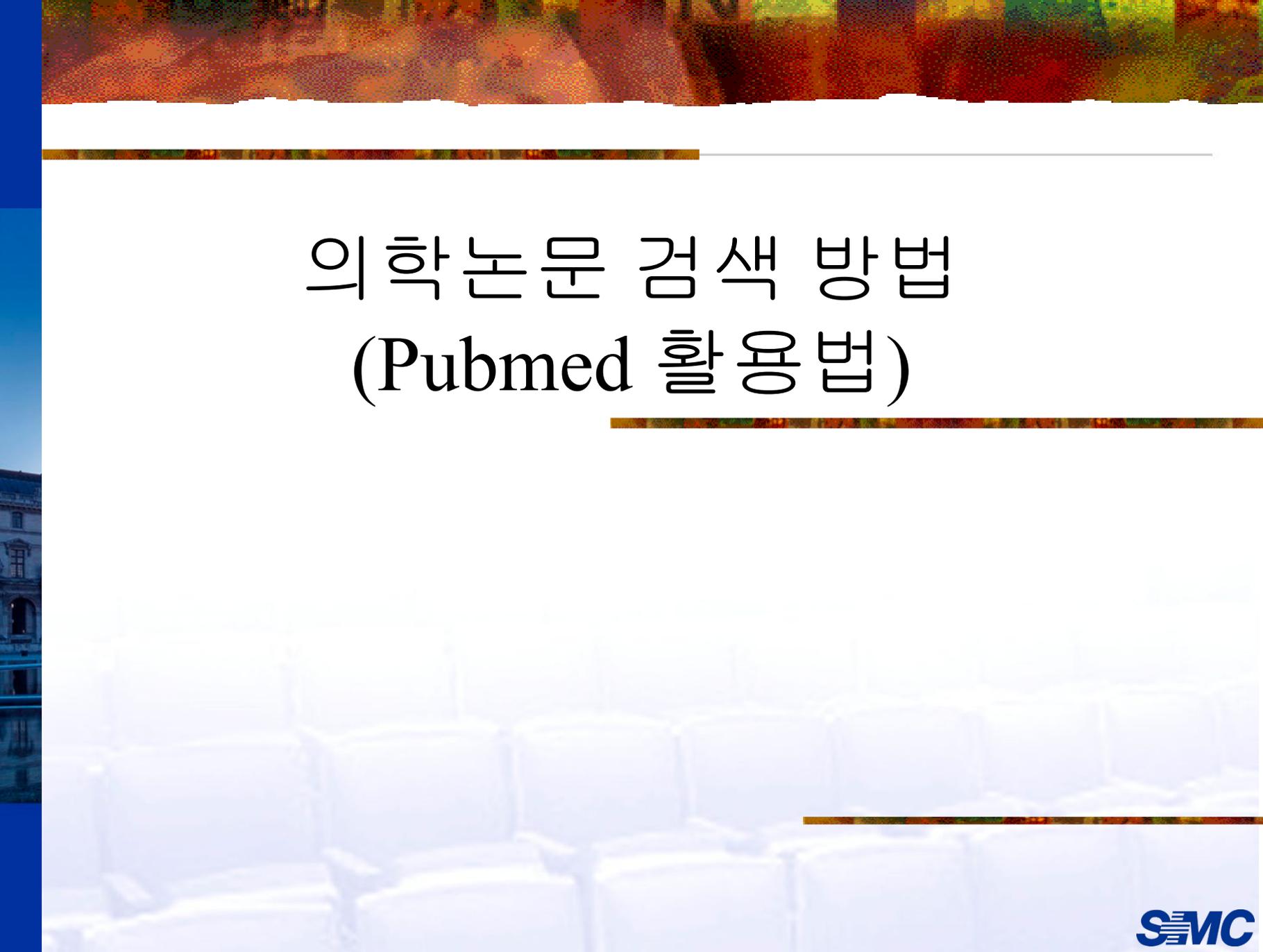
- 새로운 결과 및 기대효과

- 고찰에서 언급된 추정

=> 연구 방법론의 ‘설계’ 부분

전통적인 근거력의 순위

- 체계적인 분석 및 메타 분석
 - 무작위화시험
 - 코호트 연구
 - 환자-대조군 연구
 - 단면조사 연구
 - 증례보고
-



의학논문 검색 방법 (Pubmed 활용법)



PubMed 소개

PubMed 소개

- <http://pubmed.gov> (org, com)
- NLM의 NCBI에서 주관하는 프로젝트로 개발된 MEDLINE의 무료 검색도구
- 1997년 6월부터 무료로 개방
- NLM과 협찬 출판사들이 공동작업으로 참여하며, 출판사들은 저널 출판에 앞서 서지데이터를 NLM에 제공하고, 자신들의 웹사이트로 링크를 제공함으로써 원문을 입수할 수 있는 편리를 제공
- MEDLINE 등재 5,000 여종 저널의 1950년~현재까지 논문 수록
- 갱신주기 : 매일 (최신 자료 이용 용이)

PubMed 메인화면

https://pubmed.ncbi.nlm.nih.gov

NIH National Library of Medicine
National Center for Biotechnology Information

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PubMed.gov

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Explore

MeSH Database
Journals

검색 (1) : 검색어 입력

The screenshot shows the PubMed.gov search interface. At the top left is the PubMed.gov logo. A search bar in the center contains the text 'prostate cancer'. To the right of the search bar is a 'Search' button. Below the search bar are links for 'Advanced', 'Create alert', and 'Create RSS'. On the right side, there is a 'User Guide' link. Below the search bar are buttons for 'Save', 'Email', and 'Send to'. To the right of these buttons are 'Sorted by: Best match' and 'Display options' with a gear icon. Below the search bar, the text '203,583 results' is displayed. To the right of this text are navigation arrows and 'Page 1 of 20,359'. On the left side, there is a section for 'MY NCBI FILTERS' and 'RESULTS BY YEAR'. The 'RESULTS BY YEAR' section includes a bar chart showing the number of results from 1894 to 2023. Below the chart are two icons: a square with an upward arrow and a square with a downward arrow. Below the chart are three checkboxes: 'Abstract', 'Free full text', and 'Full text'. Below these checkboxes is the text 'ARTICLE ATTRIBUTE' followed by a horizontal line. The main content area displays two search results. The first result is titled 'Genetics and biology of prostate cancer.' and is ranked 1. It lists the authors 'Wang G, Zhao D, Spring DJ, DePinho RA.' and provides the citation 'Genes Dev. 2018 Sep 1;32(17-18):1105-1140. doi: 10.1101/gad.315739.118.' It also includes the PMID '30181359' and a link to the 'Free PMC article.' with a 'Review.' link. The 'Share' section for this result contains the text 'Despite the high long-term survival in localized prostate cancer, metastatic prostate cancer remains largely incurable even after intensive multimodal therapy. The lethality of advanced disease is driven by the lack of therapeutic regimens capable of g ...'. The second result is titled 'Prostate cancer between prognosis and adequate/proper therapy.' and is ranked 2. It lists the author 'Grozescu T, Popa F.' and provides the citation 'J Med Life. 2017 Jan-Mar;10(1):5-12.' It also includes the PMID '28255369' and a link to the 'Free PMC article.' with a 'Review.' link. The 'Share' section for this result contains the text 'The risk of over-diagnosing and over-treating many prostate cancer cases (indicated by all the major European and American studies) is real and poses many question marks. The present paper was meant to deliver new research data and to reset the clinical approach in ...'.

PubMed.gov

prostate cancer

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User Guide

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RESULTS BY YEAR

203,583 results

Page 1 of 20,359

1894 2023

Abstract

Free full text

Full text

ARTICLE ATTRIBUTE

Genetics and biology of **prostate cancer**.

1 Wang G, Zhao D, Spring DJ, DePinho RA.

Cite Genes Dev. 2018 Sep 1;32(17-18):1105-1140. doi: 10.1101/gad.315739.118.

PMID: 30181359 [Free PMC article](#). [Review](#).

Share Despite the high long-term survival in localized **prostate cancer**, metastatic **prostate cancer** remains largely incurable even after intensive multimodal therapy. The lethality of advanced disease is driven by the lack of therapeutic regimens capable of g ...

Prostate cancer between prognosis and adequate/proper therapy.

2 Grozescu T, Popa F.

Cite J Med Life. 2017 Jan-Mar;10(1):5-12.

PMID: 28255369 [Free PMC article](#). [Review](#).

Share The risk of over-diagnosing and over-treating many **prostate cancer** cases (indicated by all the major European and American studies) is real and poses many question marks. The present paper was meant to deliver new research data and to reset the clinical approach in ...

검색 (2) : display 조건 설정

PubMed.gov prostate cancer

[Advanced](#) [Create alert](#) [Create RSS](#) [User Guide](#)

Sorted by: Most recent

MY NCBI FILTERS

RESULTS BY YEAR

TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- Associated data

203,583 results

- Risk factors for lymphorrhea and lymphocytopenia in metastatic castration-resistant prostate cancer: a retrospective case-control study.**
1
Cite Zheng WC, Ke ZB, Wu YP, Chen JY, Chen SH, Zheng QS, Wei...
World J Urol. 2023 Feb 16. doi: 10.1007/s00345-023-04321-...
Share
PMID: 36792813
- Low hemoglobin and PSA kinetics are prognostic factors for overall survival in metastatic castration-resistant prostate cancer patients.**
2
Cite Hakozaiki Y, Yamada Y, Takeshima Y, Taguchi S, Kawai T, Nakamura M, Iwaki T, Teshima T, Kinoshita Y, Akiyama Y, Sato Y, Yamada D, Suzuki M, Kume H.
Share
Sci Rep. 2023 Feb 15;13(1):2672. doi: 10.1038/s41598-023-29634-5.
PMID: 36792713
The objective of this study was to identify the prognostic factors and to propose a new risk model in metastatic castration-resistant **prostate cancer** (mCRPC) patients. The clinical data were retrospectively obtained for 102 mCRPC patients who received **cancer** ...

DISPLAY OPTIONS

- Format: Summary
- Sort by: Most recent
- Per page: 20
- Abstract snippets: Show Hide

Clinical Trial > [N Engl J Med. 2004 Oct 28;351\(18\):1838-48. doi: 10.1056/NEJMoa041406.](#)

Effect of reducing interns' work hours on serious medical errors in intensive care units

Christopher P Landrigan ¹, Jeffrey M Rothschild, John W Cronin, Rainu Kaushal, Elisabeth Burdick, Joel T Katz, Craig M Lilly, Peter H Stone, Steven W Lockley, David W Bates, Charles A Czeisler

Collaborators, Affiliations + expand

PMID: 15509817 DOI: 10.1056/NEJMoa041406

[Free article](#)

Abstract

Background: Although sleep deprivation has been shown to impair neurobehavioral performance, few studies have measured its effects on medical errors.



검색 (3) : 초록

Methods: We conducted a prospective, randomized study comparing the rates of serious medical errors made by interns while they were working according to a traditional schedule with extended (24 hours or more) work shifts every other shift (an "every third night" call schedule) and while they were working according to an intervention schedule that eliminated extended work shifts and reduced the number of hours worked per week. Incidents were identified by means of a multidisciplinary, four-pronged approach that included direct, continuous observation. Two physicians who were unaware of the interns' schedule assignments independently rated each incident.

Results: During a total of 2203 patient-days involving 634 admissions, interns made 35.9 percent more serious medical errors during the traditional schedule than during the intervention schedule (136.0 vs. 100.1 per 1000 patient-days, $P < 0.001$), including 56.6 percent more nonintercepted serious errors ($P < 0.001$). The total rate of serious errors on the critical care units was 22.0 percent higher during the traditional schedule than during the intervention schedule (193.2 vs. 158.4 per 1000 patient-days, $P < 0.001$). Interns made 20.8 percent more serious medication errors during the traditional schedule than during the intervention schedule (99.7 vs. 82.5 per 1000 patient-days, $P = 0.03$). Interns also made 5.6 times as many serious diagnostic errors during the traditional schedule as during the intervention schedule (18.6 vs. 3.3 per 1000 patient-days, $P < 0.001$).

Conclusions: Interns made substantially more serious medical errors when they worked frequent shifts of 24 hours or more than when they worked shorter shifts. Eliminating extended work shifts and reducing the number of hours interns work per week can reduce serious medical errors in the intensive care unit.

검색 (4) : 검색어+필드

PubMed.gov

prostate cancer[Title]

Search

Advanced Create alert Create RSS

User Guide

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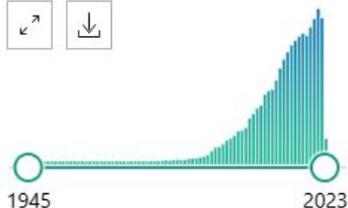
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“prostate cancer”라고 하는 단어가 title에 있는 논문 검색

Display options

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RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

90,056 results

Page 1 of 4,503

1 Low hemoglobin and PSA kinetics are prognostic factors of overall survival in metastatic castration-resistant **prostate cancer** patients.

Cite Hakozaiki Y, Yamada Y, Takeshima Y, Taguchi S, Kawai T, Nakamura M, Iwaki T, Teshima T, Kinoshita Y, Akiyama Y, Sato Y, Yamada D, Suzuki M, Kume H.
Share Sci Rep. 2023 Feb 15;13(1):2672. doi: 10.1038/s41598-023-29634-5.
PMID: 36792713

2 Re: Sensitivity of Multiparametric MRI and Targeted Biopsy for Detection of Adverse Pathologies (Cribriform Gleason Pattern 4 and Intraductal Carcinoma): Correlation of Detected and Missed **Prostate Cancer** Foci with Whole Mount Histopathology.

Cite Bernardino R, Fleshner N.
Share Eur Urol. 2023 Feb 13:S0302-2838(23)02573-3. doi: 10.1016/j.eururo.2023.01.028. Online ahead of print.
PMID: 36792385 No abstract available.

Clipboard (1)

검색결과를 리뷰하면서 원하는 논문만을 선택(체크박스표시)하여 "Clipboard"로 보낸 후 모아둔 논문을 일괄 저장, 인쇄, 이메일 전송할 수 있음

The screenshot shows the PubMed.gov search interface. At the top, the search bar contains 'prostate cancer' and the 'Search' button is highlighted. Below the search bar, there are options for 'Advanced', 'Create alert', 'Create RSS', and 'Clipboard (5)'. The 'Clipboard' button is highlighted with a red box. Below the search bar, there are buttons for 'Save', 'Email', and 'Send to'. The 'Email' button is selected. Below the buttons, there is a section for 'Email citations' with a subject line 'prostate cancer - PubMed'. The 'To' field contains 'email@example.com'. The 'Selection' dropdown is set to 'Selection (3)'. The 'Format' dropdown is set to 'Summary'. Below the dropdowns, there is a reCAPTCHA verification box with the text '로봇이 아닙니다.' and a 'Send email' button. The 'Clipboard' button is highlighted with a red box.

The screenshot shows the PubMed.gov search results for 'prostate cancer'. The search bar contains 'prostate cancer' and the 'Search' button is highlighted. Below the search bar, there are options for 'Advanced', 'Create alert', 'Create RSS', and 'Clipboard (5)'. The 'Clipboard' button is highlighted with a red box. Below the search bar, there are buttons for 'Save', 'Email', and 'Send to'. The 'Email' button is selected. Below the buttons, there is a section for 'Email citations' with a subject line 'prostate cancer - PubMed'. The 'To' field contains 'email@example.com'. The 'Selection' dropdown is set to 'Selection (3)'. The 'Format' dropdown is set to 'Summary'. Below the dropdowns, there is a reCAPTCHA verification box with the text '로봇이 아닙니다.' and a 'Send email' button. The 'Clipboard' button is highlighted with a red box.

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193,509 results 3 items selected × Clear selection << < Page 1 of 9,676 >>

RESULTS BY YEAR

1894 2022

TEXT AVAILABILITY

A Novel Artificial Intelligence-Powered Method for Prediction of Early Recurrence of Prostate Cancer After Prostatectomy and Cancer Drivers.

Cite Huang W, Randhawa R, Jain P, Hubbard S, Eickhoff J, Kummar S, Wilding G, Basu H, Roy R. JCO Clin Cancer Inform. 2022 Feb;6:e2100131. doi: 10.1200/CCI.21.00131.

Share PMID: 35192404

PURPOSE: To develop a novel artificial intelligence (AI)-powered method for the prediction of prostate cancer (PCa) early recurrence and identification of driver regions in PCa of all Gleason Grade Group (GGG). MATERIALS AND METHODS: Deep convolutional neural network ...

Item in Clipboard



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prostate cancer - Search ... prostate cancer - Search ... Clipboard - PubMed Clipboard - PubMed Clipboard - PubMed

Advanced Create alert Create RSS Filters Timeline Best match ...

203,583 results Page 1

1 **Genetics and biology of prostate cancer.**
Wang G, et al. Genes Dev. 2018. PMID: 30181359
Free PMC article. Review.
Despite the high long-term survival in localized prostate cancer, metastatic prostate cancer remains largely inc ...
Cite Share

2 **Prostate cancer between prognosis and adequate/proper therapy.**
Grozescu T, et al. J Med Life. 2017. PMID: 28255369
Free PMC article. Review.
The risk of over-diagnosing and over-treating many prostate cancer cases (indicated by all the major European and American stu ...
Cite Share

3 **Brief Overview of Prostate Cancer Statistics, Grading, Diagnosis and Treatment Strategies.**
Schatten H. Adv Exp Med Biol. 2018. PMID: 30229546

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Genetics and biology of prostate cancer.
Wang G, et al. Genes Dev. 2018. PMID: 30181359
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Prostate cancer between prognosis and adequate/proper therapy.
Grozescu T, et al. J Med Life. 2017. PMID: 28255369
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Clipboard - PubMed

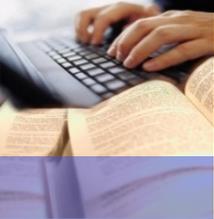
* To:
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Selection:
Selection (2)

Format:
Summary

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