کارگاه آشنایی با منابع EBM(۲) – upto date- clinical query pubmed

مدرس: دکتر مریم زرقانی

تاریخ : ۳۰ آبان ۱۴۰۲
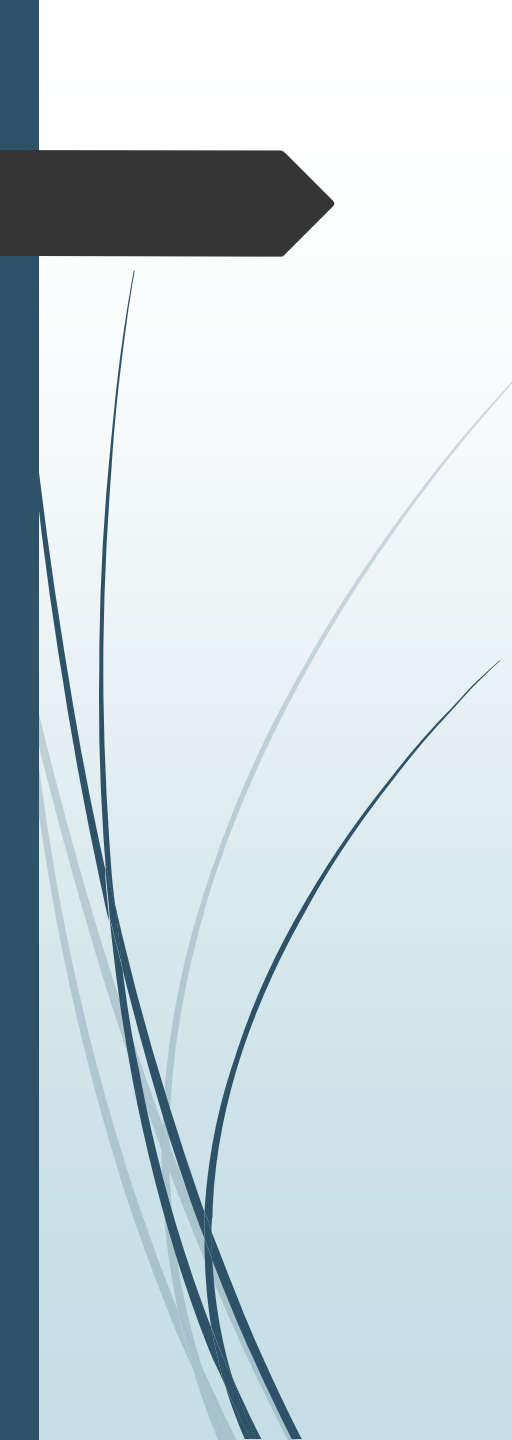
Hierarchy of EBM Resources

Categories of EBM Resources

The previous pages helped you decide what type of evidence is likely to answer your question. However, to know where to search for evidence, you need to understand how evidence is organized into categories of EBM resources.

DiCenso A, Bayley L, Haynes RB (2009). Accessing pre-appraised

evidence: fine-tuning the 5S model into a 6S model. *Evidence-Based*

Nursing, 12(4),99-101.

The 6S Hierarchy of Evidence-Based Resources is a useful model for guiding clinical decision making.The model proposes six layers of evidence sources. The search for evidence-based resources should begin at the highest possible layer. The categories of EBM resources described here correspond to layers of the 6S model of EBM resources.

From a practical point of view, resources can be viewed in three broad categories: summaries and guidelines, pre-appraised research and nonappraised primary studies.

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Categories of EBM Resources

Category	Description	Where to Find
Summaries and Guidelines	Online summaries provide the body of evidence at a topic level (not limited to a single question, intervention, or outcome). This also includes clinical practice guidelines with recommendations for clinical decision making.	ACP Smart Medicine & AHFS DI® Essentials™ BMJ Best Practice DynaMed Plus UpToDate Natural Medicine
Pre-Appraised Resources	Synopses of systematic reviews, systematic reviews and synopses of studies provide an assessment of an original study or a summary of a number of studies.	Cochrane ACP Journal Club (now is Annals of Internal Medicine) BMJ EvidenceAlerts McMaster *PLUS*
Non-Appraised Primary Studies	All primary studies with no pre-appraisal.	PubMed (MEDLINE) MEDLINE - Ovid CINAHL Embase - Ovid

Evidence-Based Medicine: EBM Resources

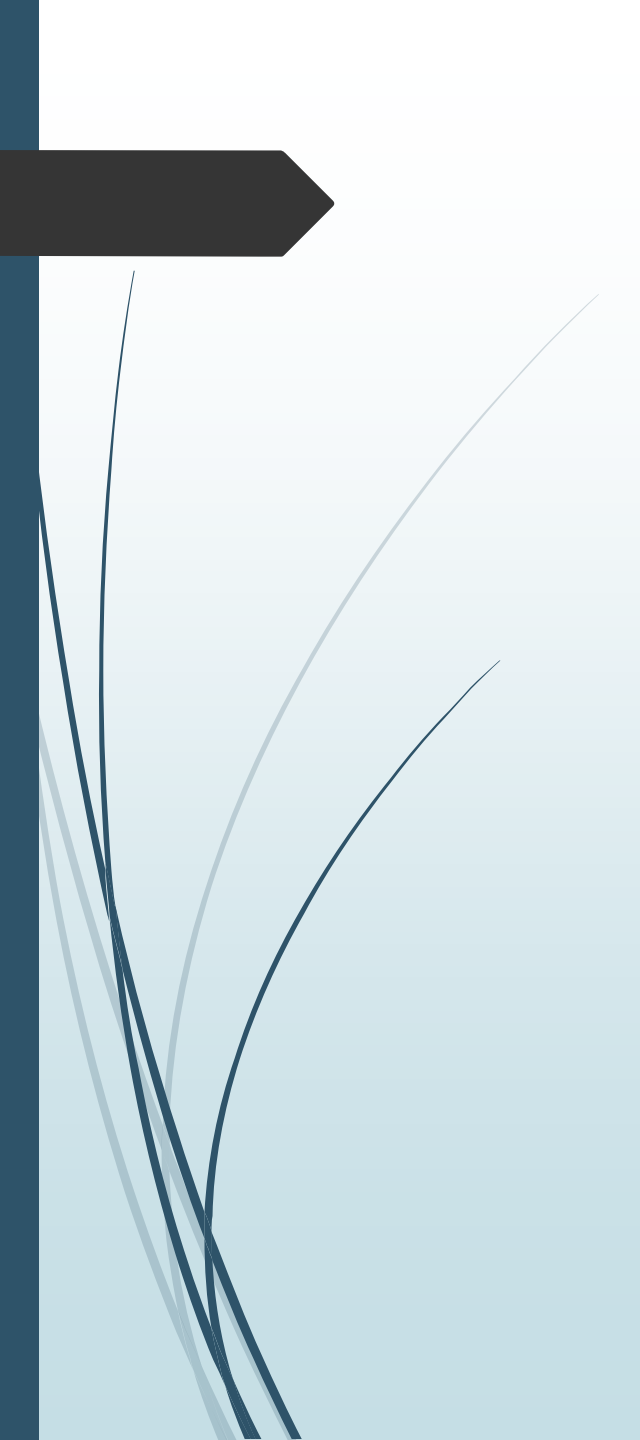| EBM Resources	Resources for EBM Summaries
Summaries	• Dynamed ⬈
Clinical Guidelines	• Natural Medicines (NatMed Pro) ⬈
Pre-appraised resources	• UpToDate ⬈
Primary studies	
Federated search resources	

Clinical Practice Guidelines Resources

- ASCO Practice Guidelines
- ASH Guidelines
- Australian Government Clinical Best Practice
- British Columbia Cancer Agency
- Cancer Care Ontario Guidelines
- Cancer Council of Australia
- ECRI Guidelines Trust
- European Society for Medical Oncology (ESMO)
- European Society of Breast Cancer Specialists (EUSOMA)
- German Guidelines Clearinghouse
- Guidelines International Network
- Institute for Clinical Systems Improvement
- National Comprehensive Cancer Network (NCCN)
- National Health and Medical Research Council
- National Institute for Clinical Excellence (NICE)
- Registered Nurses' Association of Ontario (RNAO) Nursing Best Practice Guideline
- Royal College of Radiologists
- Scottish Intercollegiate Guidelines Network (SIGN)
- Society of Gynecologic Oncology

Pre-Appraised resources

- ACP Journal Club

- Cancer Treatment Reviews

- Cochrane Library

- EvidenceAlerts

- McMaster PLUS

Primary Studies

- PubMed ↗
- Medline Ovid ↗
- Embase ↗
- Scopus ↗
- CINAHL Plus ↗
- PsycINFO ↗

Federated Search Resources

- ACCESSSS
- Epistemonikos
- SUMSearch 2
- TRIP (Turning Research into Practice) ↗

EBM
Tools and Calculators

EBM Calculators (Knowledge Translation Program, Toronto):
These calculators were developed by the Evidence-Based Centre in Toronto. They include calculators for statistics and Odds Ratio to NNT Converter. Links for Palm OS EBM Calculators and Pocket PC EBM calculators are also included.

CATMaker and EBM Calculators (Oxford Center for Evidence-Based Medicine):
CATMaker is a computer-assisted critical appraisal tool that helps you create Critically Appraised Topics (CATs) for the key articles you encounter about therapy, diagnosis, prognosis, etiology/harm and systematic reviews of therapy
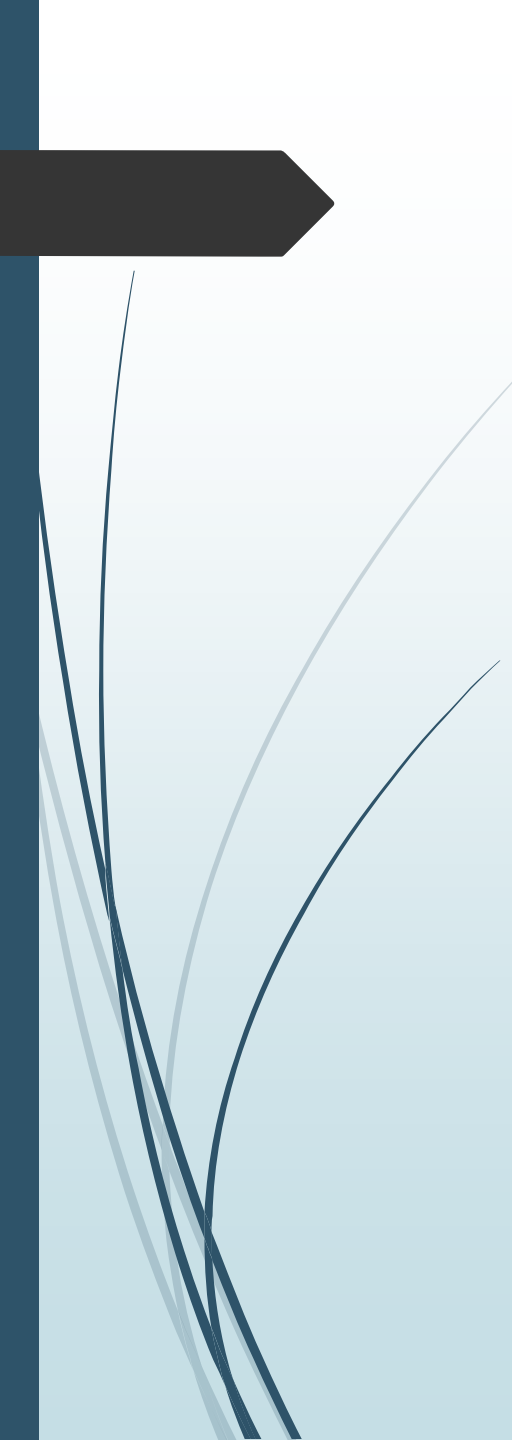
Evidence-Based Medicine Toolkit (University of Alberta)

This is a collection of tools for identifying, assessing and applying relevant evidence for better health care decision-making. The appraisal tools are adapted from the Users' Guides series prepared by the Evidence Based Medicine Working Group and originally published in JAMA.
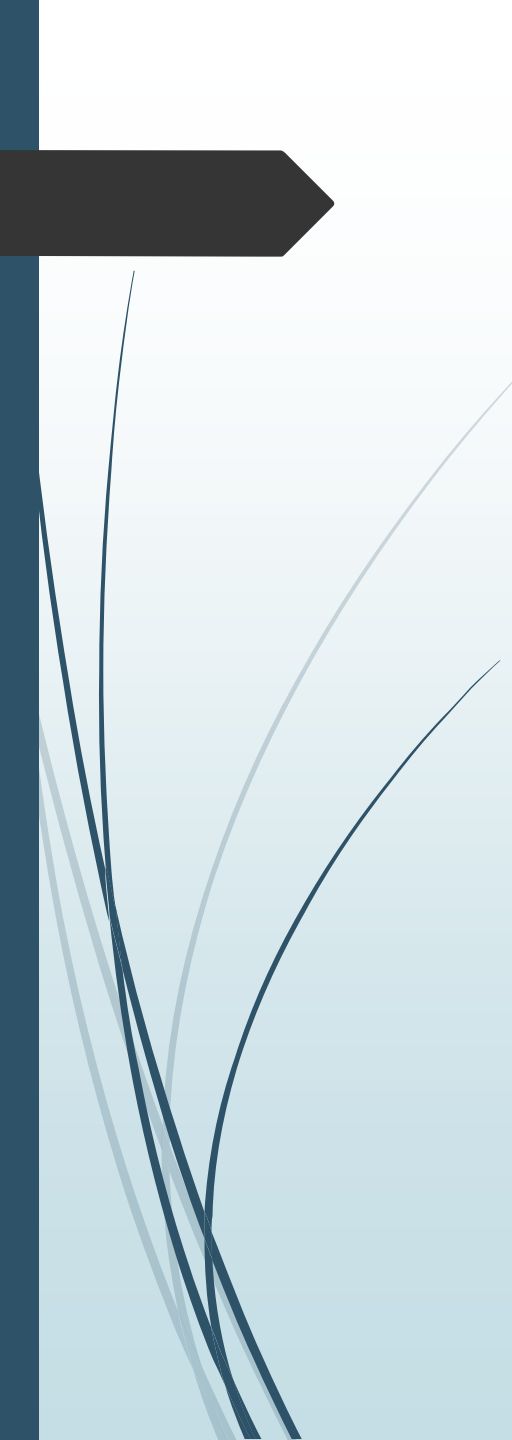
Therapy/Prevention
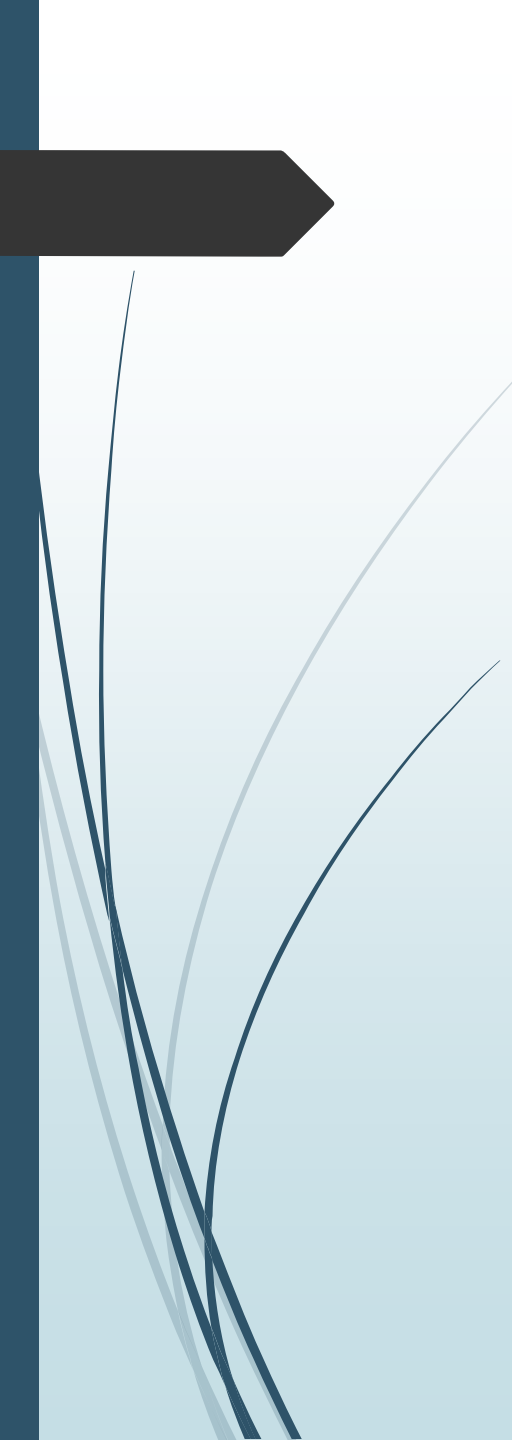
Diagnostic Tests

Harm/Etiology

Diagnostic Test Calculator (Alan Schwartz, University of Illinois at

Chicago) : This calculator can help you determine various characteristics of diagnostic tests, such as sensitivity and specificity.

Bayesian Analysis Model (MEDCalc): Calculates information (e.g. predictive value, likelihood ratio) about

diagnostic tests.

UpToDate Calculators: UpToDate includes calculators to help you quickly and accurately calculate many different medical measurements in various specialties.

EBMcalc : MedCalc 3000 is a computerized medical reference and tool set. MedCalc 3000 encompasses a wide array of pertinent medical formulae, clinical criteria sets and decision tree analysis tools used everyday by clinicians, medical educators, nurses and health care students. Also available as MedCalc 3000 mobile app.

MedCalc : Medcalc performs automatic computations of more than 300 hundred clinical formulas, equations and scores commonly used in medical

practice. Also includes valuable point of care information.

MDCalc : A site for medical professionals to do calculations and process algorithms and scores.Calculators are listed by categories for specialty and system.

Grey
Literature Databases and Clinical Trials Registries

General Grey Literature Resources

- New York Academy of Medicine Grey Literature Report ⬈
- GreySource Index ⬈
- Global Index Medicus ⬈
- WorldCat OAIster ⬈
- Center for Research Libraries ⬈
- National Technical Information Service ⬈
- CADTH Grey Matters ⬈
- FDA Drug Information ⬈

Clinical Trial Registries

- MD Anderson Cancer Center Clinical Trials ⬈
- Cancer Clinical Trials from NCI ⬈
- ClinicalTrials.gov ⬈
- CenterWatch Oncology Trials ⬈
- EORTC Clinical Trials Database ⬈
- WHO International Clinical Trials Registry ⬈

Mobile Resources

Useful links
App Recommendations
App Reviews and News: iMedical Apps

AHRQ ePSS	Free Access United States Preventative Services Task Force (USPSTF) recommendations, guides, and tools on the go. App does not require an internet connection after download.		
ACP Clinical Guidelines	Developed by American College of Physicians (ACP), this app includes clinical recommendations and guidance statements, as well as the rationale for recommendations, summary tables and algorithms.		

UpToDate	UpToDate is an electronic information resource that can be used to get specific, detailed answers to your clinical questions from the office, exam room or bedside. Over 80 million patient-related problems are researched each year with UpToDate. To use, register for a free account online and download the app. Free via Research Medical Library subscription.

پاسخ به سوالات بالینی در پایگاه up to date و clinical query- pubmed

سوالات پایه

- ۱. مدارکی را پیدا کنید که در ارتباط با circadian rhythms و melatonin در انسان باشد.

- ۲. مدارکی در خصوص heart surgery پیدا کنید . د رنهایت نتایج جستجوی مرحله اول را باین مرحله ترکیب کنید.
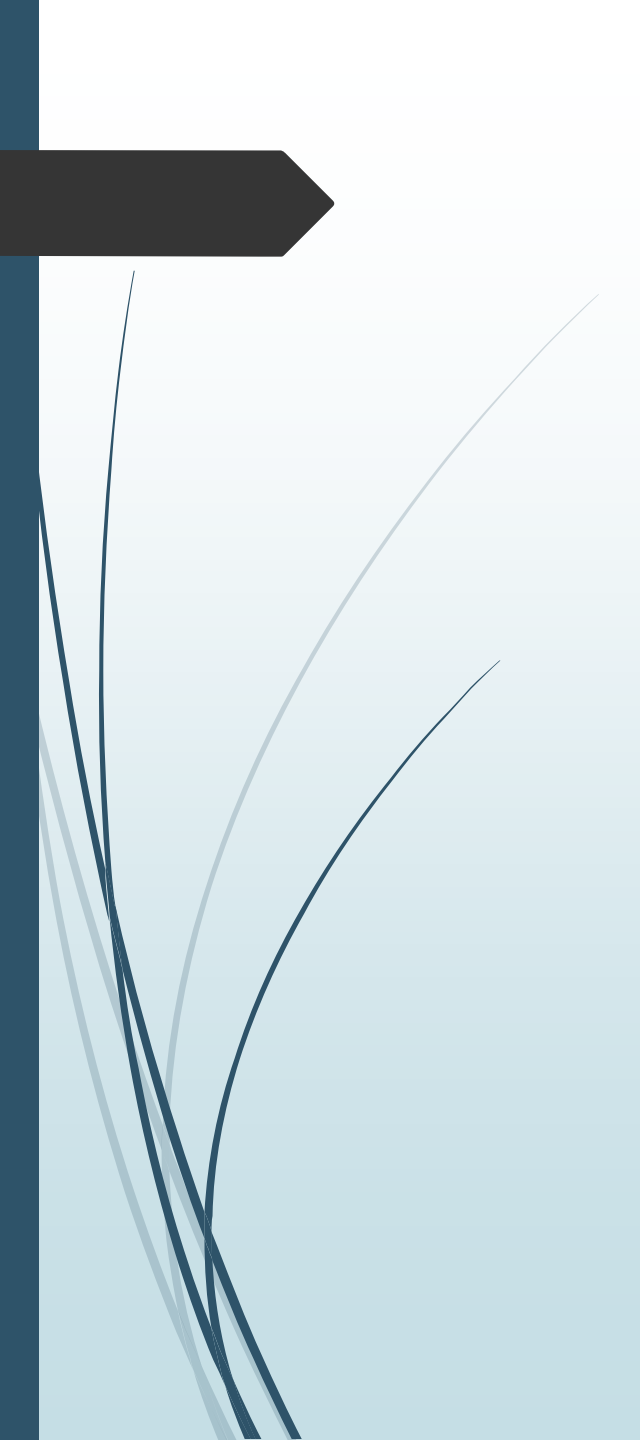
۲. پزشکان در مورد تعداد بیمارانی که اورژانس را بدون معاینه ترک میکنند نگران هستند معمولا به خاطر معطلی زیاد این اتفاق میافتد. مقالاتی در این خصوص بیابید(Pubmed)

Emergency service, hospital

Patient dropouts

Time factors

۳. در ارتباط با علت بیماری pelizaeus-Merzbacher اطلاعاتی مربتط پیدا کنید. (clinical queries)

۴. اثرات اقتصادی سرطان پستان برجامعه چیست؟ (از mesh subheadingsیا بخش health services research queries کمک بگیرید)- از mesh کمک بگیرید

Breast cancer

Community health services

community

۴. آخرین مطالعات مروری در خصوص Edward syndrome را پیدا کنید.

۵. خانمی با زوال عقل() به پزشک مراجعه کرده است. نتایج حاصل از پاتولوژی نشان دهنده بیماری عروقی مغزی(cerebrovascular disease) است. اطلاعاتی در مورد تشخیص و درمان آن پیدا کنید. (clinical queries) و تاریخچه- ترکیب نتایج

7. مروری های نظامند را ردخصوص حوادث ناشی از محرومیت خواب(sleep deprivation) را پیدا کنید.

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➡ PICO برای سؤالات اتیولوژی (علت شناسی)

"Do obstetrical complications during pregnancy increase the likelihood of schizophrenia in *the child?"*

P= Pregnant females

I = Obstetrical complications

C = No obstetrical complications

O= Childhood schizophrenia

...

PICO برای سؤالات تشخیصی ➡

"In patients with suspected pulmonary fibrosis, how does high-resolution CT compare with *lung biopsy for establishing the diagnosis?"*

P= Pulmonary fibrosis

I = High-resolution CT

C = Lung biopsy

O= Sensitivity/specificity/PVs/LRs

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◗ PICO برای سؤالات درمانی

</div>

"Is glucosamine sulphate an effective agent in the short-term treatment of

osteoarthritis?"

P= osteoarthritis

I = glucosamine sulphate

C = Do not use glucosamine sulphate

O= short-term treatment

➡ PICO برای سؤالات پروگنوستیک (پیشبینی کننده)

''In patients with acute leukemia, is a normal white cell count at the time of diagnosis an independent predictor of disease-*free survival?''*

P= Acute leukemia

I = Normal white cell count

C= Abnormal white cell count

O= Disease-free survival

سوال بالینی

- A (P)54 year old male patient was diagnosed with intermediate grade prostate cancer and wants to know whether to get a (I) radical prostatectomy or (C)radiation treatment. He is concerned about (O)death from prostate cancer and also risks of impotence and incontinence.

- Qestion:

In 54 year old male patients with intermediate grade prostate cancer, is radical prostatectomy more effective compared to radiation treatment in reducing the risk of mortality, impotence, and incontinence?