

آشنایی با منابع نوین اطلاعات بالینی و نقش آن‌ها در تصمیم‌سازی اثربخش درمانی

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وزارت بهداشت، درمان و آموزش پزشکی



Clinical Questions

- There are 2 Types of Clinical Questions:
 - Background Questions
 - Foreground Questions

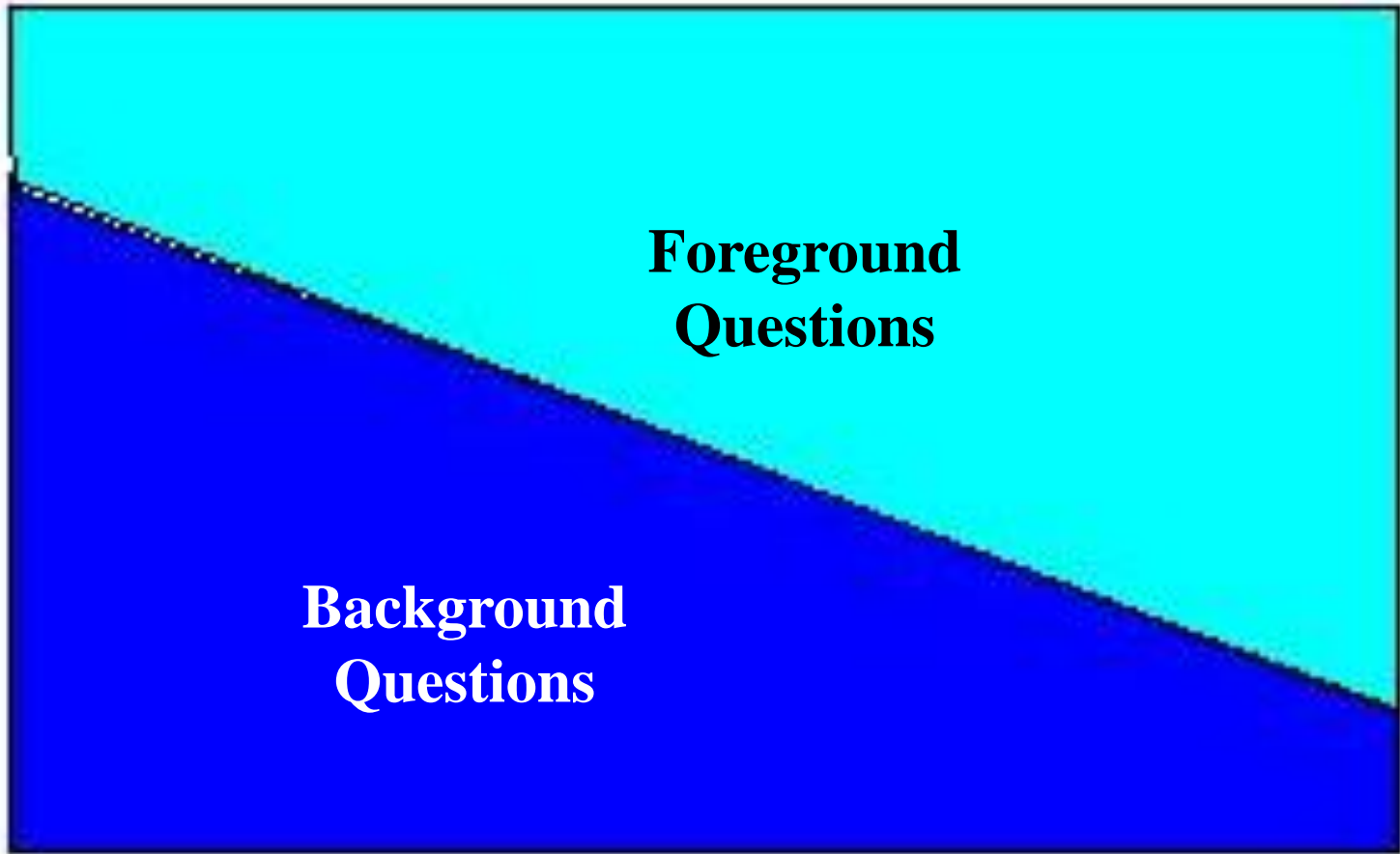
Clinical Questions

■ Background Questions

- Ask for general knowledge about a disorder.
- Two essential components: A question root (who, what, where, when, how) a disorder, or an aspect of a disorder

■ Foreground Questions

- These questions ask for specific knowledge about diagnosis, prognosis, and treating. The Patient and/or Problem, Intervention, Comparison & Outcome are included.



Experience with Condition

Information Resources

■ دانش پایه (Basic Knowledge)
کتابها (Books)

■ دانش روزآمد (Updated Knowledge)
مجلات و نشریات ادواری (Periodicals)

انواع مقالات در علوم پزشکی

- Original Article
- Review Article
- Case Reports
- Editorial
- Short Communication
(short papers)
- Letter to Editor
- مقاله پژوهشی اصیل
- مقاله مروری
- مقاله گزارش مورد
- سرمقاله (سخن سردبیر)
- مقاله کوتاه
- نامه به سردبیر

انواع مقالات مروری در علوم پزشکی

- ◆ **Traditional** Review Articles
(Narrative Review)

■ مقالات مروری سنتی
مرور روایتی

- ◆ **Systematic** Review
(Meta-analysis)

■ مقالات مروری نظام‌مند
مرور ساختاردار



Half-time or Half-life of
Clinical Medical Science is
now

about 6 Month



Doubling time of
biomedical science was

about 19 years in 1991



Doubling time of
biomedical science was

about 20 months in 2001

So you work in a job which:

- Its **half-time** (half-life) is **6 months**, &
- Its **doubling-time** is **20 month**

- You works in a **ever-changing** & **ever-growing** profession !

- So you should **keep updating** !

Question components: **PICO**

- What types of **P**atients?
- What types of **I**nterventions?
- What types of **C**omparison?
- What types of **O**utcomes?

طراحی سؤال بالینی در قالب PICO

Components of Clinical Questions

Patient/ Population	Intervention/ Exposure	Comparison	Outcome
In patients with acute MI	does early treatment with a statin	compared to placebo	decrease cardiovascular mortality?
In women with suspected coronary disease	what is the accuracy of exercise ECHO	compared to exercise ECG	for diagnosing significant CAD?
In post-menopausal women	does hormone replacement therapy	compared to no HRT	increase the risk of breast cancer?

What is 'level of evidence'?

سطوح شواهد چیست؟

- The extent to which one can be confident that an estimate of **effect** or **association** is **correct** (unbiased).

Hierarchy of studies

سلسله مراتب مطالعات



Evidence Pyramid

هرم شواهد

Systematic Review

Randomized Controlled Trial

Cohort studies

Case Control studies

Case Series/Case Reports

Animal research

Levels of Evidence

Level of Evidence	Type of Study
1a	Systematic reviews of randomized clinical trials (RCTs)
1b	Individual RCTs
2a	Systematic reviews of cohort studies
2b	Individual cohort studies and low-quality RCTs
3a	Systematic reviews of case-controlled studies
3b	Individual case-controlled studies
4	Case series and poor-quality cohort and case-control studies
5	Expert opinion based on clinical experience



انواع بانک‌های اطلاعاتی در علوم پزشکی

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انواع منابع اطلاعاتی در پزشکی بالینی

- Primary resources
- Secondary resources
- Tertiary resources

Primary Resources

منابع اطلاعاتی اولیه

- A primary source is **firsthand** original research or direct evidence concerning a **topic under investigation not interpreted**.
- Primary resources are generally **original articles** that appear in peer-reviewed journals and are found primarily by searching Medline.
- Require **more work** to validate.
- Samples are **Medline, Embase, ISI Web of Science, Scopus, ...**

Secondary Resources

منابع اطلاعاتی ثانویه

- Secondary sources describe or analyze the primary sources, are summaries and analyses of the evidence derived from and based on primary sources.
- A secondary source is a work that appraises, interprets or analyzes.
- ◆ Already reviewed, less work to validate.
- Samples are Clinical Evidence, ACP Journal Club, and Cochrane Library, EBMR.

Tertiary Resources

منابع اطلاعاتی ثالثیه

- Tertiary resources list, compile, digest or index primary or secondary sources.
- Examples of tertiary resources include UpToDate, DynaMed, TripDatabase.

UpToDate Level of Evidence

- There are two levels of recommendation strength (**1** or **2**)
 - Strong
 - Weak
- There are three levels of quality of evidence (**A**, **B**, **C**)
 - High
 - Moderate
 - Low

UpToDate Level of Evidence

- 1. **Strong** recommendation: Benefits clearly outweigh the risks and burdens (or vice versa) for most, if not all, patients
- 2. **Weak** recommendation: Benefits and risks closely balanced and/or uncertain

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مدلاین

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No.	Title	Subject Category	Publisher/Holder	IF	IF Quartile	CiteScore	CiteScore Quartile	H-Index	Indexed in	Details
1	CA: A Cancer Journal for Clinicians ISSN/ISBN: 0007-9235, 1542-4863	Oncology Hematology	Wiley, ProQuest	244.585	Q1	130.47	Q1	137	ISI, Scopus, PubMed, Embase	
2	New England Journal of Medicine ISSN/ISBN: 0028-4793, 1533-4406	Internal Medicine General Medicine	ProQuest	79.258	Q1	14.75	Q1	902	ISI, Scopus, PubMed, Embase	
3	The Lancet ISSN/ISBN: 0140-6736, 1474-547X	Internal Medicine General Medicine	ClinicalKey, Elsevier, ProQuest	53.254	Q1	8.60	Q1	670	ISI, Scopus, PubMed, Embase	
4	Chemical Reviews ISSN/ISBN: 0009-2665, 1520-6890	Chemistry	Other	52.613	Q1	51.08	Q1	581	ISI, Scopus, PubMed	
5	Nature Reviews Materials ISSN/ISBN: 2058-8437		Other	51.941	Q1	25.79	Q1	33	ISI, Scopus	

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