Koncept i osnove medicine zasnovane na dokazima

Zarko Alfirevic

Professor of Fetal and Maternal Medicine

Cochrane Pregnancy and Childbirth Module - Editor



Evidence Based Medicine

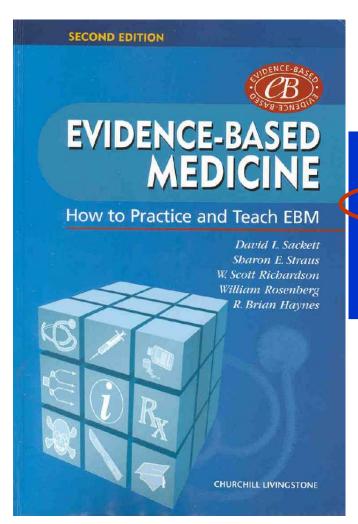
'The conscientious, explicit and judicious use of current best evidence in making decisions about the care of individual patients'.

Sackett et al 1997

Provjerbena Medicina

'Savjesno, jasno i promisljeno koristenje trenutno najboljih dokaza i potvrda za odluke o brizi (lijecenju) individualnog bolesnika.

Sackett et al 1997



INTEGRATION OF

- · the best research evidence
- · our clinical expertise
- · patient's unique values and circumstances

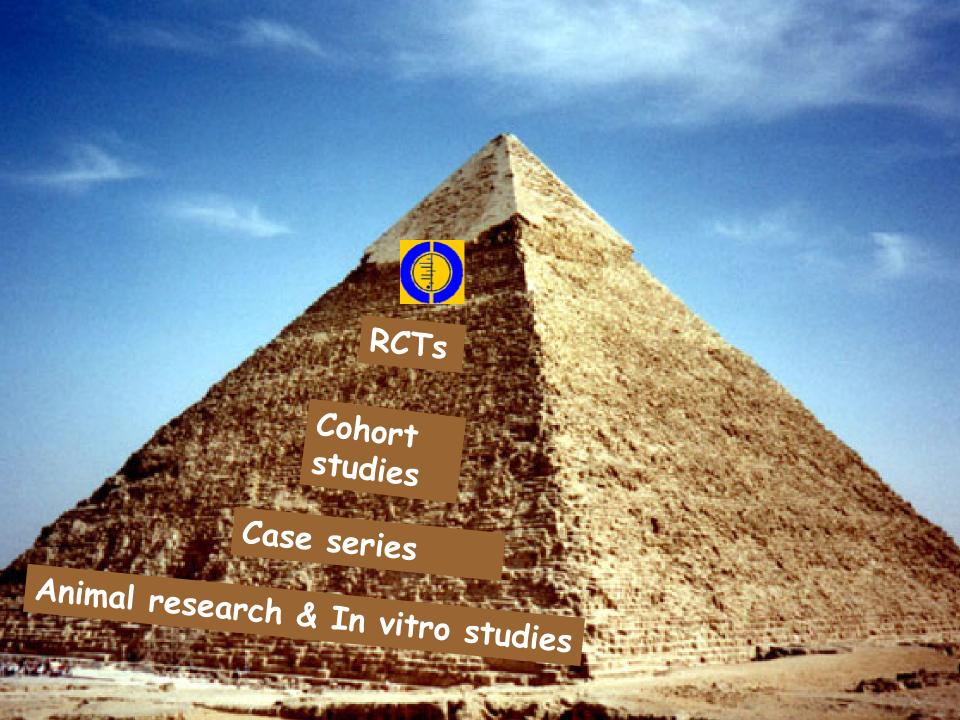


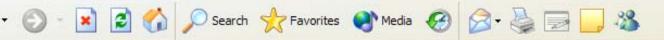
Step 1 - converting the need for information (about prevention, diagnosis, prognosis, therapy, causation) into an answerable question.

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Vazno pravilo: Pitaj jednostavna pitanja – i to jedno po jedno

Step 2 - tracking down the best evidence with which to answer the question.





http://www.rcog.org.uk/resources/Public/pdf/aminiocentesis_chorionicjan2005.pdf

























Α



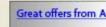












Classification of evidence levels

- Ia Evidence obtained from meta-analysis of randomised controlled trials.
- Ib Evidence obtained from at least one randomised controlled trial.
- IIa Evidence obtained from at least one welldesigned controlled study without randomisation.
- IIb Evidence obtained from at least one other type of well-designed quasi-experimental study.
- III Evidence obtained from well-designed nonexperimental descriptive studies, such as comparative studies, correlation studies and case studies.
- IV Evidence obtained from expert committee reports or opinions and/or clinical experience of respected authorities.

Grades of recommendations

- Requires at least one randomised controlled trial as part of a body of literature of overall good quality and consistency addressing the specific recommendation. (Evidence levels Ia, Ib)
- Requires the availability of well controlled clinical studies but no randomised clinical trials on the topic of recommendations. (Evidence levels IIa, IIb, III)
- Requires evidence obtained from expert committee reports or opinions and/or clinical experiences of respected authorities. Indicates an absence of directly applicable clinical studies of good quality. (Evidence level IV)

Good practice point



Recommended best practice based on the clinical experience of the guideline development group.

Step 3 - critically appraising the evidence for its validity (closeness to truth), impact (size of effect), and applicability (usefulness in our clinical practice).

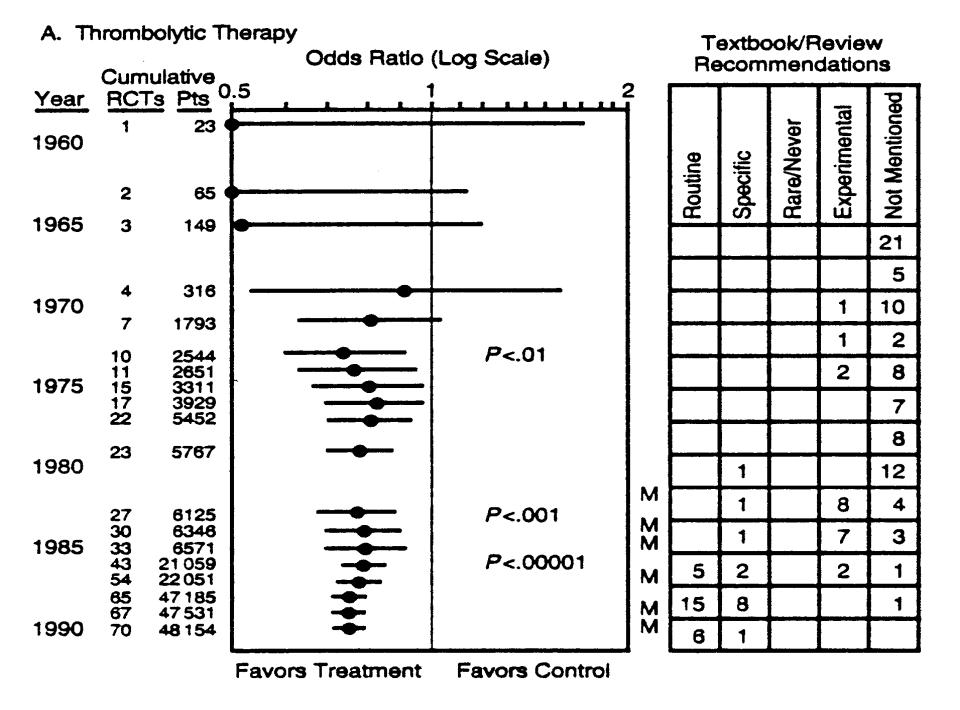
Systematic reviews with meta-analysis

•A comparison of results of meta-analyses of randomised controlled trials and recommendations of clinical experts.

Treatments for myocardial infarction.

Antman, Lau, Kuplenick, Mosteller and Chalmers.

•JAMA 1992, 268; 240-8.



Interpretacija meta-analize

Studija A Studija B Studija C **Ukupni rezultat**

Terapija bolja

Interpretacija meta-analize

Studija A

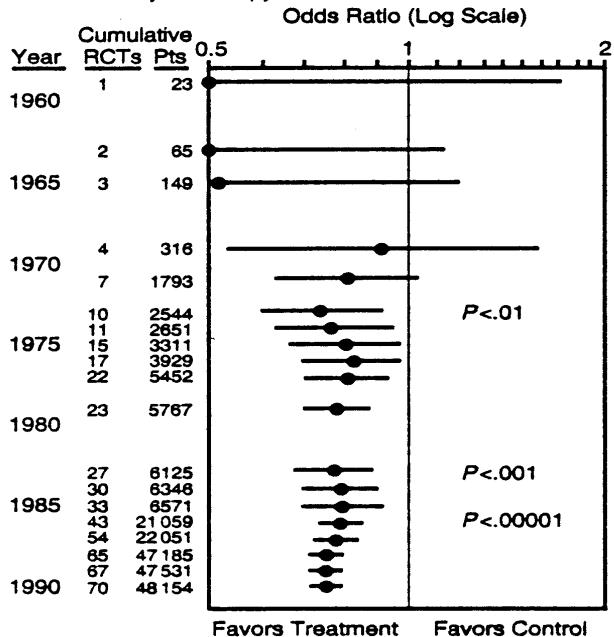
Studija A+B

Studija A+B+C

Ukupni rezultat

Terapija bolja

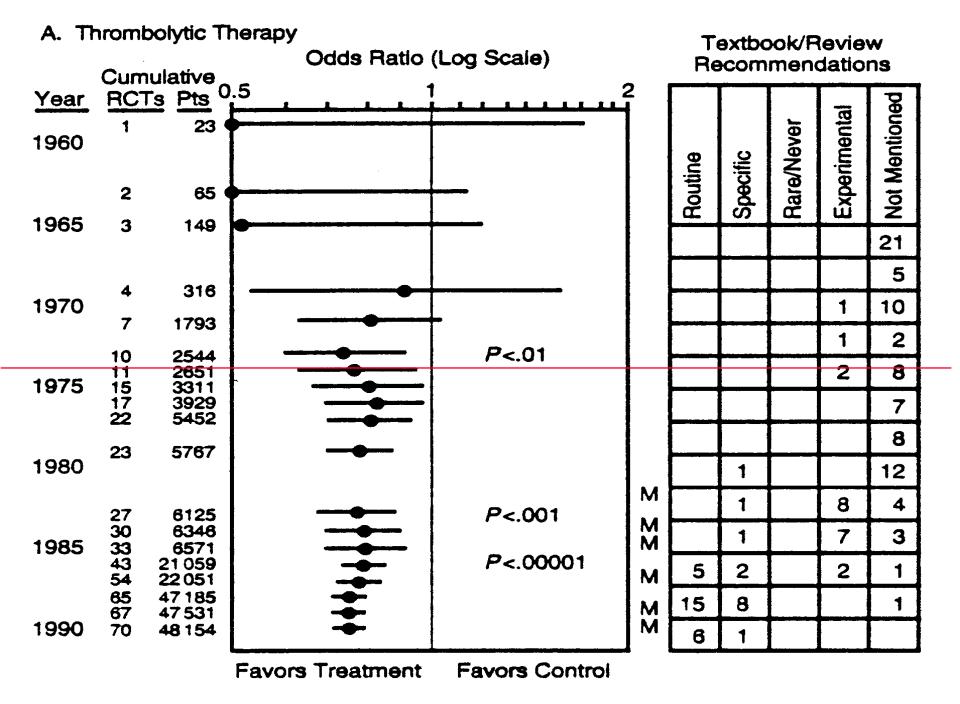
A. Thrombolytic Therapy



Textbook/Review Recommendations

	necommendations						
	Routine	Specific	Rare/Never	Experimental	Not Mentioned		
					21		
					5		
				1	10		
				1	2		
				2	8		
					8		
					8		
		1			12 4 3 1		
ZZ Z ZZ		1		8	4		
		1		8 7 2	3		
	5	2		2			
	15	8			1		
M	6	1					

Year	
	ı



Step 4 - integrating the critical appraisal with our clinical expertise and with our patient's unique biology, values and circumstances.

Ginekologija i porodnistvo u Liverpoolu i Zagrebu

Slicnosti, razlike i uloga provjerbene medicine

Zarko Alfirevic

Liverpool Women's Hospital

		Liverpool	Pe	trova	
Porodi		6,000			5,000
Tercijarni referalni cen	Da		Da		
Medicinski studenti		310		250	
Nadsluzba	12		11		
Specijalisti	0			19	
Specijalizanti		35		46	

Babice

Ginekologija

Liverpool

Petrova

Spirala sa levonogestrelom cesto nikad

Resekcija endometrija cesto rijetko

Resekcija septuma vrlo rijetko cesto

CIN III LLETZ konizacija

Dopler u boji nikad rutinski

Kirurska maska nikad rutinski

Peritonizacija vrlo rijetko rutinski

Opstetricija

Liverpool Petrova

Rutinski UZV nakon 20 tj. ne da

Down serum screening da ne

Vaginalni pregledi ne da

Papa u trudnoci ne da

Klizma i brijanje ne da

Antibiotici kod carskog reza da ne

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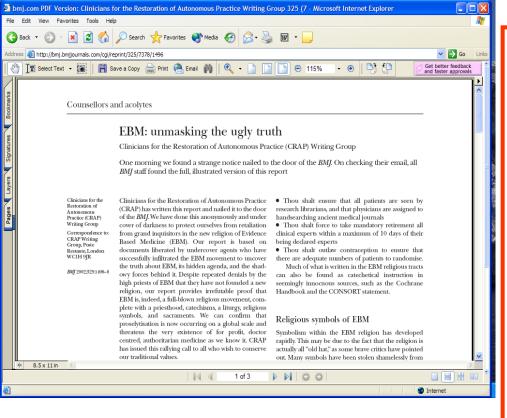
Step 3 - critically appraising the evidence for its validity (closeness to truth), impact (size of effect), and applicability (usefulness in our clinical practice).

Step 4 - integrating the critical appraisal with our clinical expertise and with our patient's unique biology, values and circumstances.

Step 5 - evaluate our ability to execute steps 1-4 and seek ways to improve.

Provjerbena medicina u praksi

- Klinicki problem
- Protokol
- Kriticka evaluacija
- Implementacija
- Analiza ucinka
- Revizija protokola
- Novi ciklus



EBM Priests and Their Commandments

- You shall treat all patients according to the EBM cookbook, without concern for local circumstances, patients' preferences, or clinical judgment
- You shall put basic scientists to the rack until they repent and promise to randomise all mice, materials, and molecules in their experiments
- You shall neither publish nor read any case reports, and punish those who blaspheme by uttering personal experiences
- You shall force to take mandatory retirement all clinical experts within a maximum of 10 days of their being declared experts











