FIPPFF

Evidence informed policy and practice in education in Europe
Oslo 15 May 2014

Lessons from the health sector

The Norwegian Knowledge Centre for the Health Services

- Established 2004, by merging three separate institutions
- Independent and autonomous organization
- No normative authority
- Staff: 200 people, interprofessional
 - Librarians
 - Health care personnel
 - Social scientists





We:

- Collect, analyse and disseminate knowledge
- Promote and measure quality







Good knowledge contributes to good health services

Knowledge from research

Knowledge from experience

Knowledge based practice

Knowledge from patients

What is special about health care

- Several interventions with great impact on people – possible benefit and harm
- A long tradition and high production of research – indexed in good data bases
- Structured continuous medical education (CME)
- Internationalization



Information overload

- > 25 000 scientific journals
- 1,5 mill papers/year
- 11 systematic reports/day
- PubMed includes > 20 millioner articles

On the impossibility of being expert

More scientific papers are being published than ever before. Alan G Fraser and Frank D Dunstan call for that new strategies to deal with this avalanche of information

very doctor has an ethical duty to keep up to date. Is this just getting more difficult or has it already become impossible? Since Alvin Toffler coined the phrase "information overload" in 1970,1 the growth of scientific and medical information has been inexorable. There are now 25 400 journals in science, technology, and medicine, and their 1973) to 2009. Trends number is increasing by 3.5% a year2; in 2009, in papers on echocarthey published 1.5 million articles.2 PubMed now cites more than 20 million papers.

One response of the medical profession to the increasing scientific basis and clinical capacity of medicine has been to increase subspecialisation. of time, and the cube This may restrict the breadth of knowledge of the of time—was used to ultraspecialist, but can such subspecialists maintain their depth of expertise? Taking one medical publications to the end subspecialty as an example, we have examined of 2010 and annually the gap between information and human capactry, and we explore the implications for any doctor

tomography (CT), and coronary arteriography, as well as cardiovascular ultrasound (strategies 5-6,

All searches were performed for each year from

--- Echocardiography MeSH

-- Echocardiography Majr

Fig 1 | Trends in numbers of papers listed each

subject heading. Mair=as a main topic:

CTs=controlled clinical trials

year in PubMed, according to search strategies 1-4

in table. The numbers to the right of the vertical line,

PubMed: echocardiography was added in elled; a good fit-from a cubic model contain. predict the numbers of after 2009, are projected totals. MeSH=medical

been added, accounting for another eight years and 78 days. Before our recruit could catch up and start to read new manuscripts published the 1966 (the year before ultrasonics was introduced same day, he or she would-if still alive and even

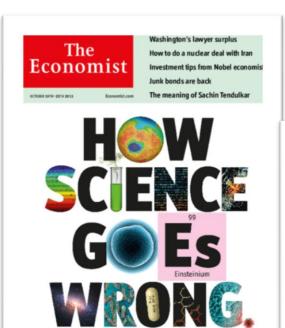
remotely interestedhave read 408 049 papers and devoted (or served a sentence of) 40 years and 295 days. On the positive side, our recruit would finish tust in time to retire

Reading only the major studies would need more than four years for strategy 3 and more than five years for strategy 6. Alternatively, if only one year was allocated for study.





An increasing number of studies are not replicable



Problems with scientific research How science g

Scientific research has changed Oct 19th 2013 | From the print edition

Why Most Published Research Findings Are False

John P. A. Ioannidis

Summary

current published research findings are false. The probability that a research claim bias, the number of other studies on the is less likely to be true when the studies conducted in a field are smaller; when effect sizes are smaller; when there is a greater number and lesser preselection there is greater financial and other

factors that influence this problem and some corollaries thereof.

Modeling the Framework for False Positive Findings

Several methodologists have pointed out [9-11] that the high rate of nonreplication (lack of confirmation) of research discoveries is a consequence of the convenient, yet ill-founded strategy of claiming conclusive research findings solely on the basis of a single study assessed by formal statistical significance, typically for a p-value less than 0.05. Research is not most appropriately represented and summarized by p-values, but, unfortunately, there is a widespread notion that medical research articles

It can be proven that most claimed research findings are false.

is characteristic of the field and can vary a lot depending on whether the field targets highly likely relationships or searches for only one or a few true relationships among thousands and millions of hypotheses that may be postulated. Let us also consider, for computational simplicity, circumscribed fields where either there is only one true relationship (among many that can be hypothesized) or the power is similar to find any of the several existing true relationships. The pre-study probability of a relationship being true is R/(R+1). The probability of a study finding a true relationship reflects the power 1 - β (one minus the Type II error rate). The probability of claiming a relationship when none truly exists reflects the Type I error rate, α . Assuming that ϵ relationships are being probed in the field, the expected values of the 2 × 2 table are given in Table 1. After a research finding has been claimed based on

«A rule of thumb among biotechnology venture-capitalists is that half of published research cannot be replicated»

lerpins science: "trust, but verify". Results should always be subject to eriment. That simple but powerful idea has generated a vast body of s birth in the 17th century, modern science has changed the world and overwhelmingly for the better.

eed complacency. Modern scientists are doing too much trusting and g-to the detriment of the whole of science, and of humanity

May 16, 2014

Cherry picking, i.e. choosing the single study that coincides with own preferences or interests





Ti sunne grunner til å ta deg et glass vin<u>i kveld</u>



Et par glass er bra ved høyt blodtrykk

Menn med høyt blodtrykk får redusert risiko for hjerteinfarkt hvis de drikker ett til to glass øl eller vin hver dag, viser ny amerikansk studie. Det er selve alkoholen som gir den gode virkningen.



Arnfinn Christensen Journalist

Tirsdag 02. januar 2007

Sunt med vin - eller bare en myte?



Undersøkelser har vist at hele 4 av 10 nordmenn mener at moderate mengder rødvin har positive helseeffekter. Forskere er enig, og de har spesielt pekt på at mengden av antioksidanter i vinen kan ha positiv effekt i forhold til sykdommer. Blant annet mot livsstilssykdommer som for eksempel hjerte- og karsykdommer, noen krefttyper, Alzheimers, Parkinsons, diabetes og ulike typer infeksjoner, samt den generelle aldringsprosessen.

I tidligere undersøkelser er det vist at moderat alkoholforbruk kan redusere risikoen for hjerte- og karsykdommer og total dødelighet, også blant mennesker med høyt blodtrykk.

Den nye undersøkelsen tar spesielt for seg menn med høyt blodtrykk og tilfelle av hjerteinfarkt som ikke ender med døden. Også her gir et par glass om dagen en helsegevinst.

Undersøkelsen er også mer langsiktig og grundigere enn tidligere studier.





Selv små eller moderate mengder alkohol

hver dag øker risikoen for å utvikle kreft,

spesielt hos kvinner. Og jo mer du drikker.

i fagtidsskriftet Journal of the National Cancer Institute.

enten der er brennevin, øl eller vin, jo mer

VG Nett følger

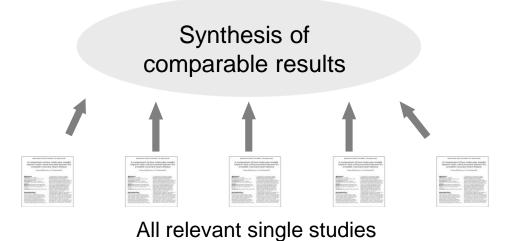
Helse og medisin

øker risikoen, viser en ny studie ved University of Oxford. Studien er publisert

iiiii kunnskapssenteret

Systematic review

P	- 1	С	0
Population Patient Problem	Inter∨ention Or Exposure	Comparison	Outcome
Who are the patients? What is the problem?	What do we do to them? What are they exposed to?	What do we compare the intervention with?	What happens? What is the outcome?



Formulate Question Systematic literature search Choose studies Assess study quality Extract data, synthesize (& GRADE) Write report

Two results:

- Estimated effect
- Quality of evidence

Health technology Assessment (HTA)

- Efficacy
- Safety
- Cost effectiveness
- Societal costs
- Ethics
- Organisational issues
- Legal issues

Is the new method safe and effective? Is it better compared with alternatives?

Is the new method cost-effective? What will be the overall costs?

What are the consequences for patients, health care services and society?

Thromboprophylactic treatment with rivaroxaban or dabigatran compared with enoxaparin or dalteparin in patients undergoing elective hip- or knee replacement

surgery

Report from Kunnskapsse No 13–2011 Health Technology Assess

kunnskapssent

Background: Due to a major orthopaedic sui prophylactic treatmen or without addition of commissioned by Hels hylaxis with rivaroxat heparins (LMWH, i.e. e and cost-effectiveness cement surgery. • We c cost-effectiveness anal life years and life time ficant differences betwembolism, deep vein to ranged from very low the we found statistically

Efficacy and cost-effectiveness of alendronate for the prevention of fractures in postmenopausal women in Norway

Report from Kunnskapssenteret (Nor No 10–2011

Health Technology Assessment (HTA)

kunnskapssenteret

Background: The Norwegian | teoporosis and osteoporosis is sphosphonates for women with also for women with T-score less Only women with T-score equives will have their drug expension. Since then, the price of alsity of Oslo has asked the Norwito evaluate how this price reducte. Methods: We developed a more perspective. The model follows fractures of the hip, spine and During the course of the mod result of the fractures. Half of the of alendronate, calcium and version of the mod version of the mod version of the fractures.

Factors promoting and hindering the practice of female genital mutilation/cutting (FGM/C)

Report from Kunnskapssenteret (Norwegian Knowledge Centre for the Health Services) No 23–2010

kunnskapssenteret

Systematic review

Background: In November 2008, the Norwegian Knowledge Centre for Violence and Traumatic Stress Studies (NKVTS) commissioned the Norwegian Knowledge Centre for the Health Services (NOKC) to conduct a systematic review about the factors promoting and hindering female genital mutilation/cutting (FGM/C), from the viewpoints of stakeholders residing in Western countries. The review would answer the question: What are the factors promoting and hindering the practice of FGM/C, as expressed by stakeholders residing in Western countries? Methods: We searched systematically for relevant literature in international scientific databases, in databases of international organisations that are engaged in aspects related to FGM/C, and in reference lists of relevant reviews and included studies. Additionally, we communicated with professionals working with FGM/C related issues. We selected studies according to pre-specified criteria, appraised the methodological quality using checklists, and summarized the study level results in tables before performing an integrative evidence synthesis. Our conclusions were summed in a conceptual model. Results: We inclu-

BMJ

RESEARCH

The influence of study characteristics on reporting of subgroup analyses in randomised controlled trials: systematic review

Xin Sun, research fellow, ¹² Matthias Briel, assistant professor, ¹³ Jason W Busse, scientist, ¹⁴ John J You, assistant professor, ¹⁵ Elie A AkI, associate professor, ¹⁶ Flip Mejza, research fellow, ⁷ Dalgorzata M Bala, research fellow, ⁸ Dirk Bassler, associate professor, ⁹ Dominik Mertz, research fellow, ¹⁰ Natalia Diazgranados, doctoral candidate, ¹ Per Olav Vandvik, researcher, ¹¹⁰ German Malaga, associate professor, ¹³ Sadeesh K Srinathan, assistant professor, ¹⁴ Philipp Dahm, associate professor, ¹⁵ Bradley C Johnston, postdoctoral fellow, ¹ Pablo Alonso-Coello, researcher, ¹⁶ Basil Hassouneh, research fellow, ¹ Jessica Truong, undergraduate student, ¹⁷ Neil D Dattani, medical student, ⁸ Stephen D Walter, professor, ¹⁰ Diane Heels-Ansdell, Statistidian, ¹ Neera Bhatnagar, librarian, ¹⁹ Douglas G Altman, professor, ²⁰ Gordon H Guyatt, professor, ²⁰ Gordon H Guyatt,

ABSTRACT Objective To

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nd Health.

Objective To investigate the impact of industry funding on reporting of subgroup analyses in randomised controlled trials

Design Systematic review. Data sources Medline.

wersity, Data sources Medi

Study selection Randomised controlled trials published in 118 core clinical journals (defined by the National Library of Medicine) in 2007, 1140 study reports in a 1:1 ratio by high (five general medicine journals with largest number of total citations in 2007) versus lower impact journals, were randomly sampled. Two reviewers, independently and in duplicate, used standardised,

piloted forms to screen study reports for eligibility and to

frequent prespecification of subgroup hypotheses (31.3% v 38.0%, adjusted odds ratio 0.49, 0.26 to 0.94), and less use of the interaction test for analyses of subgroup effects (41.4% v 49.1%, 0.52, 0.28 to 0.97) than non-industry funded trials.

Conclusion Industry funded randomised controlled trials, in the absence of statistically significant primary outcomes, are more likely to report subgroup analyses than non-industry funded trials. Industry funded trials less frequently prespecify subgroup hypotheses and less frequently test for interaction than non-industry funded trials. Subgroup analyses from industry funded trials with negative results for the primary outcome should be viewed with caution.

- Systematic reviews
- Meta-analyses
- Health Technology Assessments
- Methodology research

Transparency and usefulness

- Decision makers
 - Politicians
 - Managers
 - Clinicians
- Students
- Patients and the public



Norwegian Electronic Health Library (Helsebiblioteket)

- Publicly funded, internet based service
- Giving easy and free access to knowledge to health care personnel

/Ilhelsebiblioteket



helsebiblioteket.no

Health Library | Guidelines

In summary, the research

Journals

Databases

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Patient

Tools

Fagprosedyrer

Helsebiblioteket.no

Topics

Emergency Medicine

General practice Anaesthesia

Children and Youth

Blood

Older

Endocrinology with diabetes

Prison Health

Intoxications

Physio and occupational therapy

Gynecology -Obstetrics

Heart and vessels

Skin

Infection

Cancer Quality improvement

Laboratory Medicine

Medicines

Respiratory tract

Stomach and intestinal

Muscle and skeletal

Neurology

Kidney and Urinary Disorders

Mental/he/alth 2014

Daniela an and

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The European Journal of General Practice

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Journals

Select topic •

- Annals of Internal Medicine
- ▶ BMJ
- ▶ JAMA
- The Lancet
- The New England Journal of Medicine
- Norwegian / Scandinavian journals
- All journals

REFERENCE DATABASES

Databases

Select Database

Search databases to find many articles.

- PubMed full text
- Lexicomp by Martin Dale

CHOOSE YOUR SUBJECT LIBRARY

Topic Library

CLINICAL ENCYCLOPEDIA

Encyclopedias

Quick answers to questions in the patient encounter.

- BMJ Best Practice
- Uptodate
- Anatomical atlas (Norwegian)
- The Catalogue
- ▶ Telefonråd
- Several reference works

GUIDELINES AND TREATMENT RECOMMENDATIONS

Guidelines

Select topic

Advice and recommendations on the diagnosis and treatment of medical conditions.

- Guidelines International Network (GIN)
- Additional policies and guidelines

WHAT DOES THE RESEARCH?

In summary, the research

All research on a topic gathered, reviewed and summarized.

- Cochrane Library
- More information overviews

Helsebiblioteket.no

- Free access to updated knowledae
- · Publicly funded site
- Editorially independent

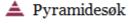
Editor: Professor MD Magne Nylenna



Contact Us

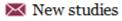


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Fewer hits and better answers

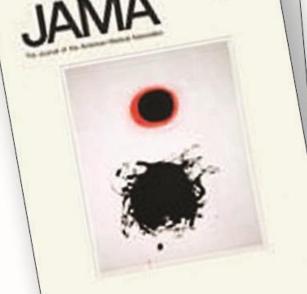
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Litigation Network



Annals of Internal Medicine



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IN THE CLICK Dystocherca

PLUS Renal function and risk of stroke Managing frequent migraine Chronic pelvic pain in women Don't miss septic arthritis in children

Should mental health services fear the private sector?



HE LANCET

"The New Stop TB Strategy and the Global Plan, with the important new developments outlined in this issue, present an ideal opportunity to turn the tide against tuberculosis."

The NEW ENGLAND JOURNAL of MEDICINE

JANUARY 54, 2003



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OSSESSAL ARTICLES Imaging Studies after a Fune Sebelle Discorp That infection in Young Children

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APICIAL ARTICLE

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Monitoring quality and patient experience

Guideline epidemic? The proliferation of loc

clinical quidelines in Norway

Eiring O1, Stolt Pedersen M2, Borgen K3, Jamtvedt G4

lines and procedures is above 45 000, in a country of

the hospitals are involved in the development of

29 out of 30 hospital trusts replied

4.9 million inhabitants.

By Cathy Schoen, Robin Osborn, David Squires, Michelle Doty, Roz Pierson, and Sandra Applebaum

New 2011 Survey Of Patients With Complex Care Needs In Eleven Countries Finds Care Is **Often Poorly Coordinated**

Overall patient satisfaction with hospitals: effects of patient-reported experiences and fulfilment of

expectations

Oyvind A Bjertnaes, Ingeborg Strømseng Sjetne, Hilde Hestad Iversen

Department for Quality surement and Patient

Background: Patient satisfaction and experiences are important parts of healthcare quality, but patient expectations are seldom included in quality assessments. The objective of this study was to estimate the effects of different predictors of overall natient satisfaction with hospitals, including patientreported experiences, fulfillment of patient expectations and socio-demographic variables.

Methods: Data were collected using a national patientexperience survey of 63 hospitals in the five health regions in Norway during the autumn of 2006. Postal questionnaires were mailed to 24 141 patients after their discharge from hospital. Non-respondents were sent a reminder after 4 weeks. Multivariate linear regression analysis including multilevel regression was used to assess the predictors of overall patient satisfaction with hospitals.

Results: Thirteen variables were significantly associated with overall patient satisfaction: two variables about fulfilment of expectations, eight about patient-reported experiences and three sociodemographic variables. The regression model explained 59% of the variation in overall patient satisfaction. The most important predictor of patient satisfaction with hospitals was patient-reported experiences with the nursing services (6=0.27 p<0.001), followed by fulfilment of patient expectations (β=0.21, p<0.001), experiences with doctor services (β =0.12, p<0.001) and perceived incorrect treatment (B--0.12 n<0.001) Multilevel regression analysis confirmed most of the findings, but revealed that age was not a significant predictor of overall patient satisfaction.

Conclusions: The study showed that both fulfilment of expectations and patient-reported experiences are distinct from but related to overall patient satisfaction. The most important predictors for overall patient

There is no consensus in the literature as to how to define and measure the patient perspective on healthcare. Four different approaches have been described in a systematic review of the patient-satisfaction literature: approaches based on expectations approaches based on health-service attributes; economic approaches; and holistic approaches.1 These approaches differ in various ways. For example, expectation-based approaches focus on the association between expectations, perceived experiences and natient satisfaction, while the health-service attribute approach normally excludes satisfaction and expectations, instead focusing on patient-reported experiences on different health-service factors. Holistic approaches try to include all important predictors of patient satisfaction, thus providing a compre hensive framework for exploring interactions between variables that affect consumer

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evaluations. One

rious illnesses or chronic hare of national health care x care needs in eleven ny, the Netherlands, New United Kingdom, and the 1, care is often poorly ry practices with attributes of nicians are accessible, know te care-gave higher ratings to experience coordination the survey, patients in ted significantly more positive ountries surveyed. Reported ed with recent reforms there ed States reported difficulty ase of costs. Our study ntries through redesigning

table across sites of care, and

liverse payment innovations

The United States in

other study countries.

10.1377/hlthaff.2011.0923 HEALTH AFFAIRS 30, NO. 12 (2011): -ex2011 Project HOPE— The People to People Health

EMBARGOED Not for release before 12:01 a.m. ET Wednesday. November 9, 2011

Cathy Schoen (cs@cmivf.org Cathy Schoen (cs@cmwt.org) is the senior vice president for policy, research, and evaluation at the Commonwealth Fund, in New York City.

Robin Osborn is the vice president and director of the ternational Program in Health Policy and Innovation at the Commonwealth Fund

David Squires is a senio Commonwealth Fund's

Michelle Doty is vice president of survey research and evaluation at the Commonwealth Fund.

Roz Plerson is vice presiden of public affairs at Harris Interactive, in New York City

Sandra Applebaum is a senior research manager at Harris

RN4CAST Nurse forecasting in Europe

Personell og pasientsikkerhet

INTOGURS JON
Personell er en betydelig innsatsfaktor i sykehus, og
prognoser tyder på at det vil bli en utfordring å balansere
tilbud og etterspørsel i årene som kommer. Det vil bli enda
viktigere med god forvaltning av personellressurser for å sikre pasientene trygg behandling og å utnytte fellesskapets ressurser best mulig. Et EU-finansiert internasjonalt prosjekt kalt "RN4CAST:

Nurse forecasting in Europe" har som formål å utvikle kunnskap som grunnlag for bedre forvaltning av disse ressursene. Sykepleiere utgjør den største yrkesgruppen i somatiske sykehus, og denne studien retter oppmerksom het mot sykepleiernes oppfatning av sin arbei Norge og elleve andre europeiske land.



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User experience surveys with maternity services: a randomized comparison of two ways of combining postal and electronic data collection

Øyvind Andresen Bjertnæs1, Hilde Hestad Iversen1

Background

Large-scale surveys of user reported experiences are a core component of quality evaluations in many western countries. However, low response rates are threatening the validity of such surveys, creating a need to identify initiatives to increase response rates and methods to assess the amount of non-response bias. The objectives of this study were to compare the effectiveness of two ways of combining postal and electronic data collection in a user experience survey with maternity services, and to assess the amount of non-response bias for both data collection procedures

Methods

As part of a national development and validation project related to user experience with maternity services, a randomized trial was conducted at a university hospital in Norway in 2010. Women giving birth in the period 1 june - 27 july were randomized to the following data collection models (n=734): Group A, postal distribution of questionnaires with electronic and paper response option in both postal requests; Group B, postal distribution of questionnaires with electronic response option in first request, electronic and paper in reminder. The primary outcome measure was response rate for each group, in addition we used three methods to assess the amount of non response bias.

variables none were significantly different between respondents and non-respondents in Group A, while two of six variables were significantly different between respondents and nonand admission type). Of a random sample of eight user experience questions none were significantly different between Group A and Group B. The six background variables were not at all or only weakly related to the eight user experience questions.

Providing nostal and electronic response options in both survey requests produced the highest response rate. However, both data collection models had little amount of non-response bias, indicating



· Clinical practice guidelines can be adapted and

embedded in hospitals' local procedural descrip

tions, possibly increasing uptake through strong

In Norway local clinical practice guidelines and

procedures are maintained within mandatory elec-

tronic quality systems within each hospital trust. The methodological quality of this work and the

The response rate was significantly higher in Group A (51.9%) than Group B (41.1%). Of six background respondents in Group B (mean number of diagnosis

adequate generalizability of both approaches

Dr Owind A Biertnaes

Department for Quality Measurement and Patie Safety, Norwegian Knowledge Centre for the St Olavs plass, 0130 Oslo,

Safety, Norwegian Knowledge Centre for the

Health Services, Oslo.

A requirement specification for an online a and presentation tool is currently being de national guidelines, and integration of the in the electronic medical record, enabled b

wners and main administrators of the quality sys- for a clinical tools, but to fulfill legal require

The Norwegian Knowledge Centre for the I Services coordinates a network of local de ers of evidence-based clinical guidelines an dures. The members of the network active nate their efforts and share their work.

guidelines and procedures are made accessi

Implications for guideline developer

In order to transform Norwegian local clini

tice guidelines and procedures into evident

New technical solutions

user-friendly tools that improve practice, so

The locally developed, clinical guidelines th with the requirements of AGREE are publish ian hospitals probably website of the Norwegian Electronic Health unt of redundant wor



integration of quidelines and procedures into the electronic medical journals of the health trusts

/ helsebiblioteket.no



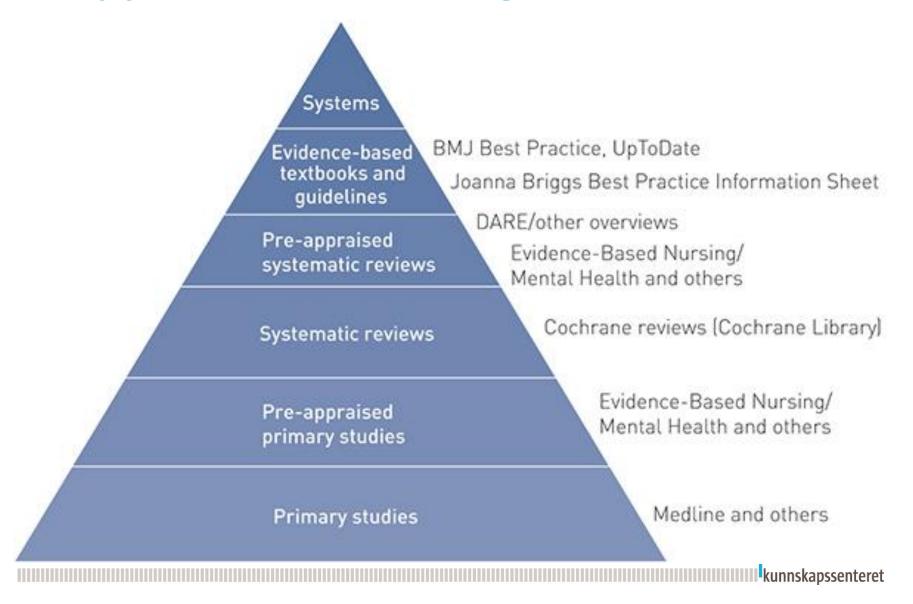
Health care versus education: a personal view



Developments from 2004 to 2014

- More interest, respect and systematic approach to knowledge based practice
- Expansion, growth at the Knowledge Centre
- Diversity
- Independence challenged
- From production to education
- From reports to support

The pyramide of knowledge



Teaching material



How can we find out reliably whether one treatment is better than another?

Home About Read the book Test your knowledge Learn more Feedback

Start here:

- 1. Why do we need fair tests of treatments?
- 2. What are fair tests of treatments?
- 3. What can be done to improve tests of
- 4. How can YOU help to improve tests of treatments?

This website is NOT about whether particular treatments work or not. For up to date information about SPECIFIC treatments, we recommend:

- PubMed Health | TRIP database
- NH8 Choices | NH8 Evidence



information for nationts and members of the public who want to promote better



Browse videos, cartoons and more

We are always on the lookout for great intera

resources about fair tests of treatments. Pleat

us if you find any you think we should include

 ECRAN: Video and alide presentation introducing Patients, the Public, and Research: a TTI guide leating Irestments I witter

New resources

 Tamifu: securing access to medical research data Tamifu or Shamifu? The evidence is now in, and it doesn't look good for Roche, http://t.co/cgErjhxMU

http://kunnskapsbasertpraksis.no/

Kunnskapsbasert praksis - Velkommen

Testing Treatments-Hva virker? Imogen Evans, Hazel Thornton, lain Chalmers & Paul Glasziou



Nettkurset gir en innføring i de viktigste begrepene i kunnskapsbasert praksis (KBP), og de seks trinnene i KBP. Vi anbefaler deg å følge trinnene kronologisk. Kurset er lagt opp med tekstmoduler, forelesninger og oppgaver.

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Information for neonle who are les about adentific methods and fair to



Educational efforts

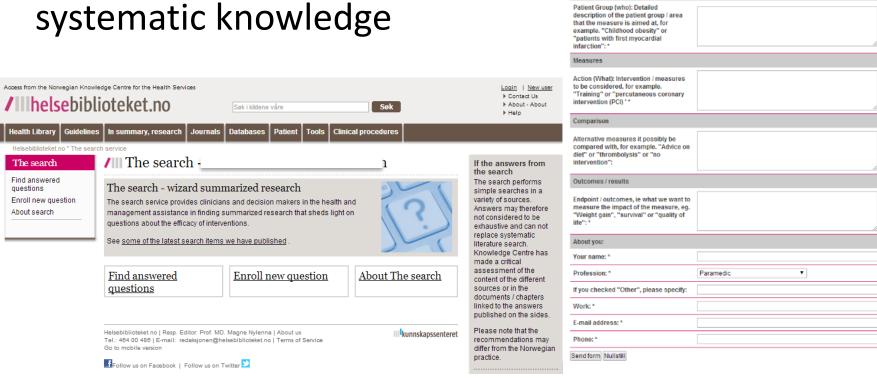
- "How to Practice Evidence-Based Health Care" A yearly one week workshop
- Courses
- Seminars
- Supporting
 - guideline-processes
 - evidence-based based decisions for introduction of new technology





Latest news – to be launched this week

 Searching service – guidance to systematic knowledge



Fill out the form:

Background and Questions

Patient Groups

Background for your order and precisely questions: *

