


AMEE 醫學教育研討會心得分享：
台灣實證教學之困境

衛生福利部雙和醫院
實證健康照護中心
譚家偉 主任





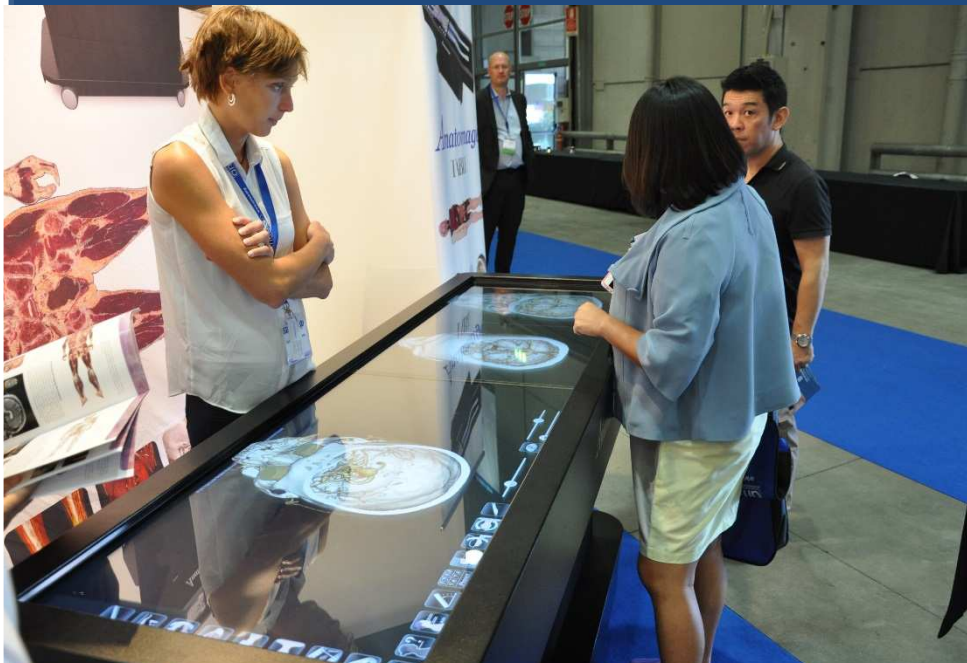


amee 2014



AN INTERNATIONAL ASSOCIATION FOR MEDICAL EDUCATION

Simulation Rural teaching
Continuing education development **Assessment**
Research education **Competency** Standardized patients
Interview Curriculum **Accreditation** OSCE
Mobile learning Interprofessional learning
OSTE Residents as teacher Practical skills
Case-based discussion **Evidence-based medicine**
Feedback Instructional design
Performance-based test Education environment



THE UNIVERSITY OF SYDNEY

Which type of MMI

Multiple Mini Interview (MMI)

- Six Stations, 8-minute each, 2 mins inbetween
- Two types
 - Behavioural ...Tell me a time when...
 - Situational.. Imagine you are...
- Marked on a 7-point on a Behaviourally Anchored Rating Scale (BARS).

EXAMPLE of Behavioural

Can you tell me about a time when you dealt with a patient who became emotional during your consultation.

Prompts: (to be used as necessary)

- What strategies did you use?
- What are the ways in which the patients emotions might have impacted upon you?

Probes

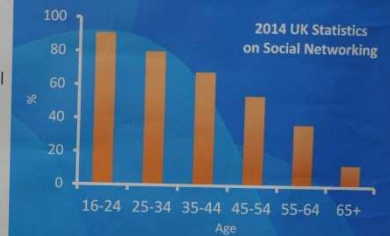
- What happened?
- Why do you do that?
- How did you do that?

USING AN INNOVATIVE ONLINE COLLABORATIVE PLATFORM TO RECRUIT STUDENTS FOR INTERNATIONAL MEDICAL VOLUNTEERING

FAHEEM AHMED,^A NAEEM AHMED,^B MAHFUJ AHMED,^A
 RAIHAANAH AL-HOQUE,^C MUSLIMA CHOWDHURY,^C
SCHOOL OF MEDICINE, KING'S COLLEGE LONDON,^A
 ST GEORGES HOSPITAL UK,^B SELFLESS UK,^C

BACKGROUND

Over the past decade, there has been a significant rise in electives undertaken in developing countries by students and doctors in the UK and US. Understanding the complexity of tropical disease and developing cross-cultural communication skills has become increasingly important in daily practice to meet the needs of diverse patients backgrounds. Handling challenging clinical duties in developing countries has also shown dramatic improvements to participants' clinical knowledge and emphasises the importance of learning how to manage patients with limited resources.



SUMMARY OF WORK

Evidence suggests that almost all medical students in the developed world actively use a form of social. Selfless UK, is an international charity that has developed an innovative online platform for students to volunteer on medical placements overseas. Students are able to create their own profile and select projects that particularly appeal to them, ranging from general medicine to ophthalmology. Our international projects help facilitate students' elective placements tailored to their needs. By using social media, we have been able to successfully engage and promote global health opportunities to a wider audience of students.

RESULTS

Selfless has over 1,000 online members. Students have provided strong positive feedback for our programmes overseas, stating that the projects were 'easily accessible', serving as a 'highly efficient solution to arranging a tricky elective process' and enabled them 'to get hands on clinical experience'.

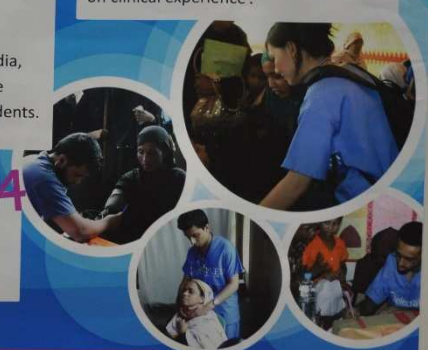
CONCLUSION

Recognising the importance of social media, Selfless UK has used its unique volunteering platform to increase the number of international medical electives by providing greater opportunities to a wider audience

TAKE-HOME MESSAGE

'Social media is an effective tool in increasing medical volunteering opportunities in the developing world.'

selfless



師者：傳道、授業、解惑也

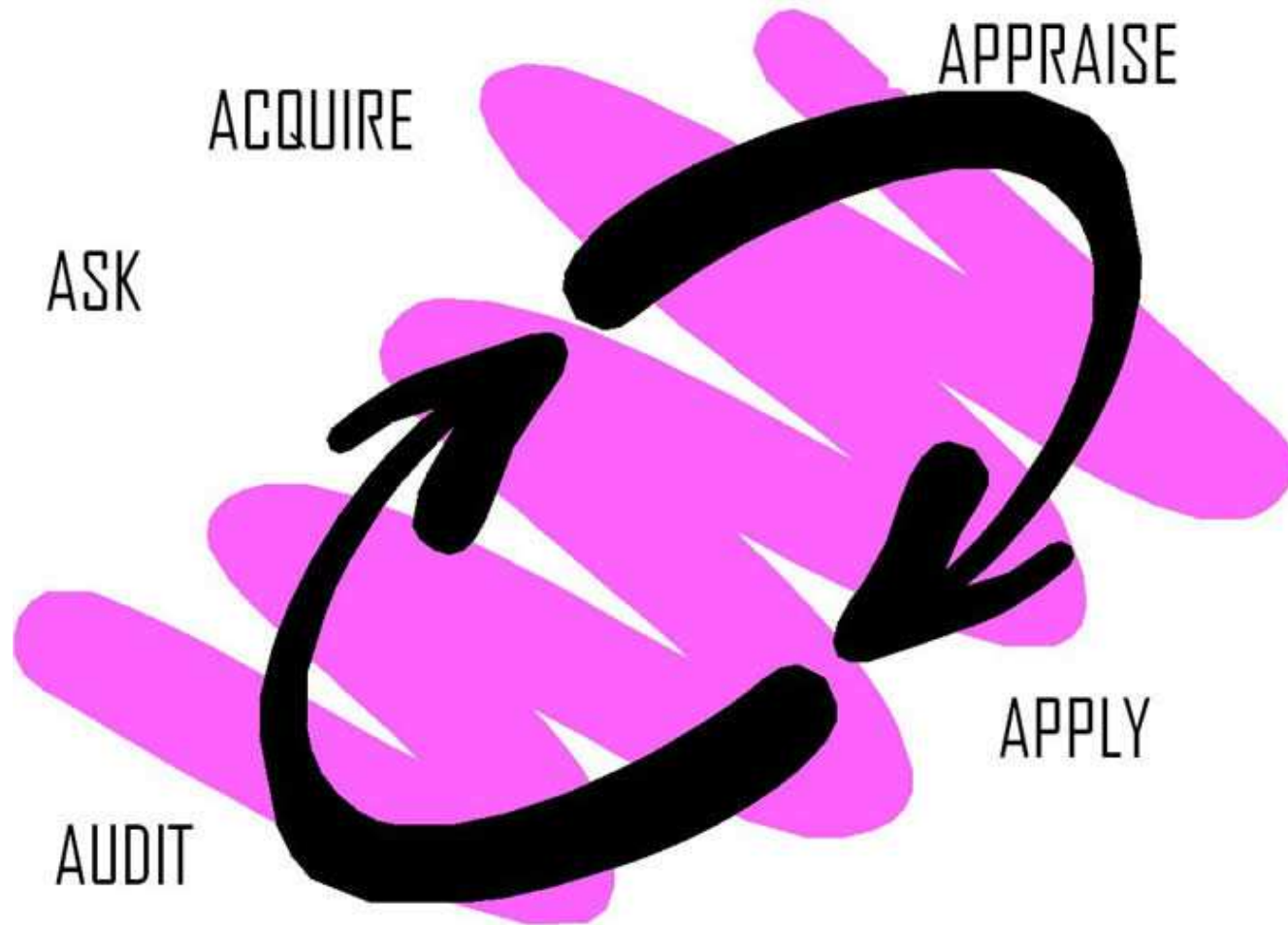


台灣實證教學之困境

- 上級：支持卻不深入
- 推動者：了解卻常誤解
- 學員：可學卻非必要學




The Five Steps of EBM






Definition of EBM

- EBM is the conscientious, explicit and judicious use of current best evidence in making decisions about the care of the individual patient. (Sackett D, 1996)
- 



The Core values of EBM

- Developments of hierarchy of evidence
 - The “truth” should be assessed based on the “totality of evidence”
 - Evidence is necessary but not sufficient for decision-making
- 

GRADE

Box 2 | Quality of evidence and definitions

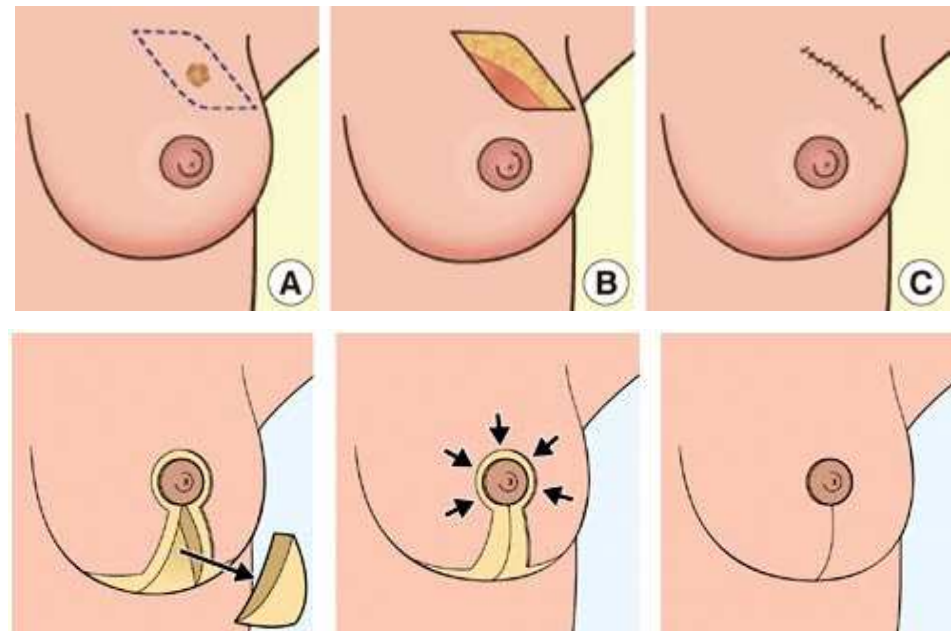
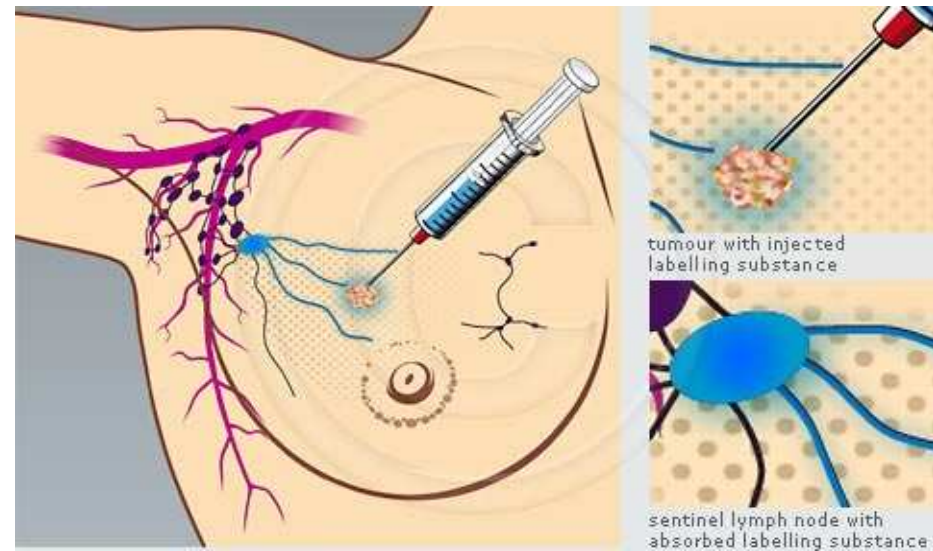
High quality— Further research is very unlikely to change our confidence in the estimate of effect

Moderate quality— Further research is likely to have an important impact on our confidence in the estimate of effect and may change the estimate

Low quality— Further research is very likely to have an important impact on our confidence in the estimate of effect and is likely to change the estimate

Very low quality— Any estimate of effect is very uncertain

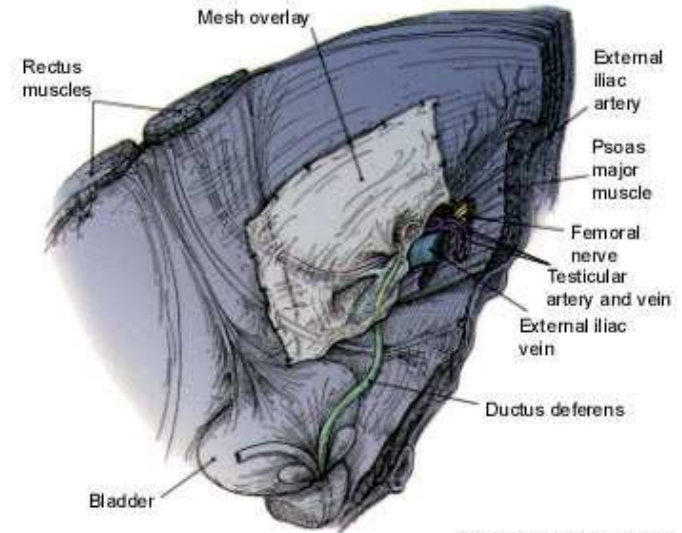
Breast cancer



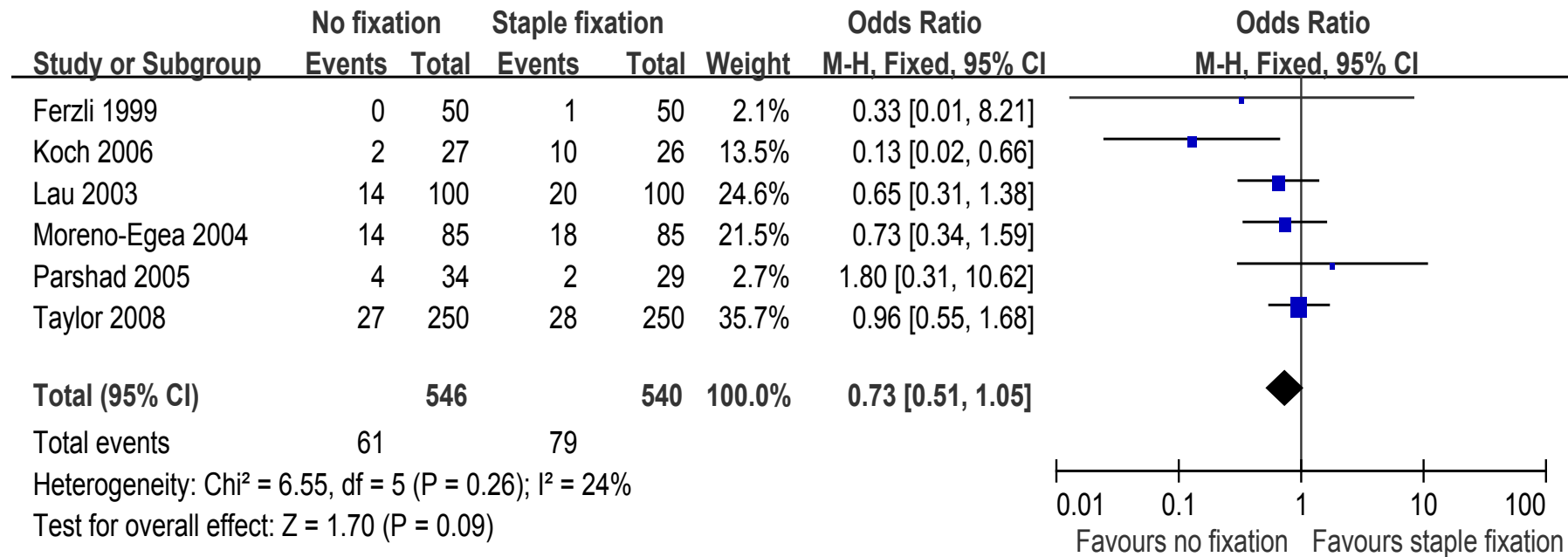
Water versus Ice



TEP hernia repair



© 1999 Floyd E. Hosmer



Share decision making

付諸實行

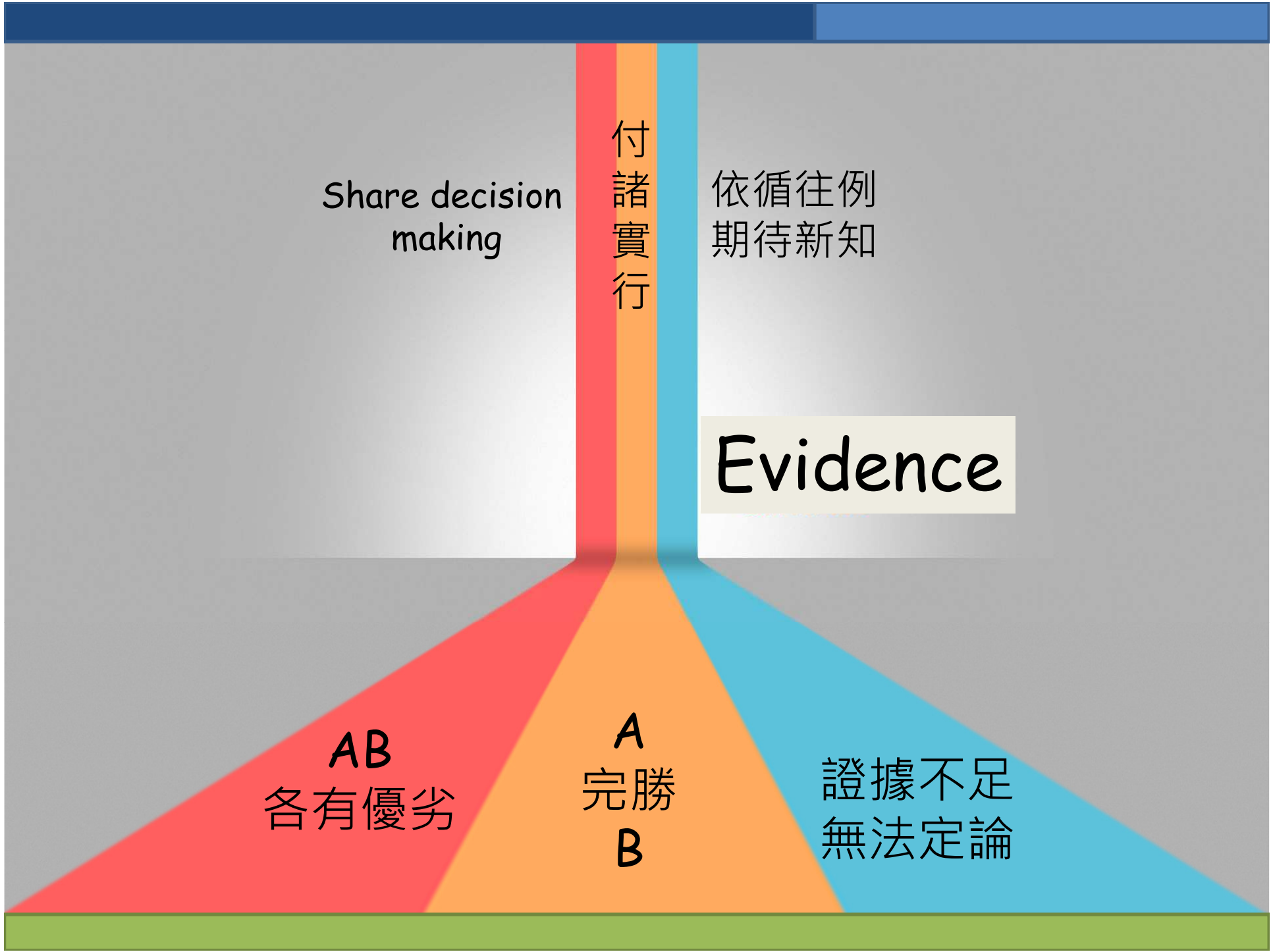
依循往例
期待新知

Evidence

AB
各有優劣

A
完勝
B

證據不足
無法定論



浮萍理論



GRADE

Evidence

- Study limitation
- Inconsistency of results
- Indirectness of evidence
- Imprecision
- Reporting bias
- Treatment effect
- Dose-response relation
- Plausible biases

=> high, moderate, low
and very low grade **evidences**

Recommendation

- Relative values
- Benefit and harms
- Economic considerations

=> Strong or weak
recommendations

Knowledge provider

Author / Editor

- All trials registered
- All results reported
- Journals for (-) results
- Protocol publication
- Reporting guideline
- Core outcome measurement

To reduce

- Reporting bias
- Publication bias

Systematic review

- Meta-analysis
- Network meta-analysis
- Individual patient data meta-analysis

Guideline

- AGREE
- GRADE

Acquire

- Database
- Open access
- Translation

To detect

- Selection bias
- Performance bias
- Detection bias
- Attrition bias
- Other bias



Ask / Subscribe

- My NCBI
- Email alert

Appraisal

- Level of evidence
- Appraisal tools

Apply

- Aware } EBM journal club
- Accepted }
- Applicable }
- Able } Plan/Do/Check/Act
- Acted on } Education
- Agreed to } Share decision making
- Adhered to } Value-based decision making


Audit

- Over diagnosis, over treatment
- Health technology assessment
- Media

Knowledge user

台灣實證教學之前境

- 讓學生成為水而不是冰
 - EBM journal club
- 謹記證據有強弱，強弱代表以後被推翻的機率
- Systematic review是實證存在最主要的價值
 - Just do it
- 浮萍理論
 - Case-based / PBL / EBM Discussion



Thank you for your
attention!

