



2

"Ethical lapses are almost never a case of bad people, doing bad things, for no good reason. More often they are good people, doing bad things, for good reasons" - M. Angell RIGHT BAD BELIEF ACTION

3

Why is PICU research necessary?

- Inform practice ["evidence based care"]
- Improve care
 - Ensure treatment is effective and safe
 - Optimise patient outcomes
- Burden of critical illness growing globally
 - Human and financial cost
- Medical care should be based on best available evidence.
 - Balance between discovering new knowledge and protecting patients

Weijer (2004) Critical Care 8: 85 – 86 ATS Statement Am J Respir Crit Care Med 170: 1375 - 1384

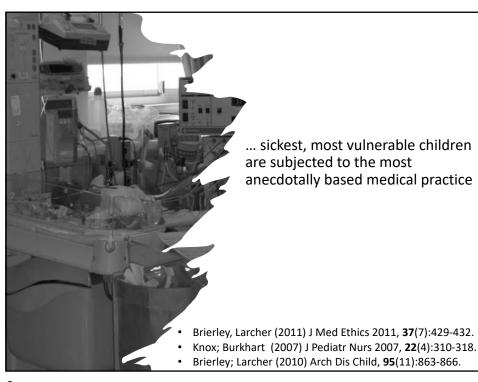
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In PICU....

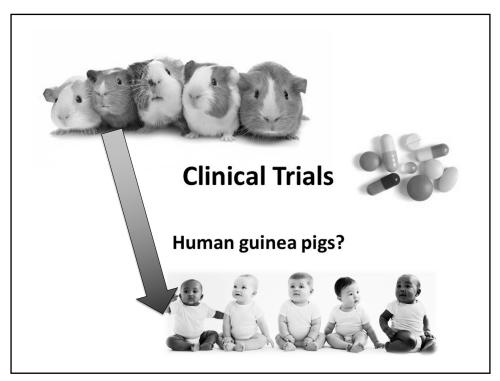
- Medical management still largely based on experience, anecdote and adult/animal studies.
- ... "therapeutic orphans"
 - Dr. Harry Shirkey, the "father of pediatric therapeutics in the U.S", 1960s

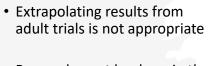


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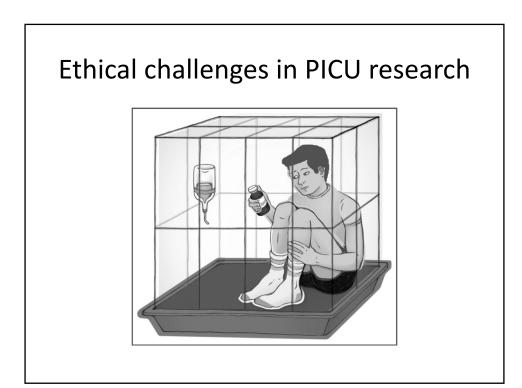


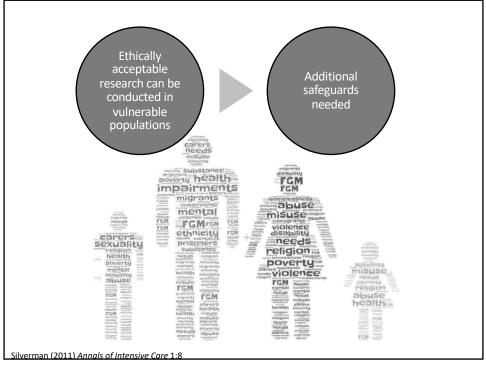
 Research must be done in the PICU population



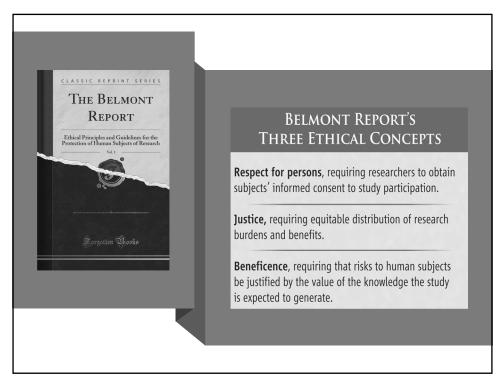
Knox; Burkhart (2007) J Pediatr Nurs 2007, 22(4):310-318.

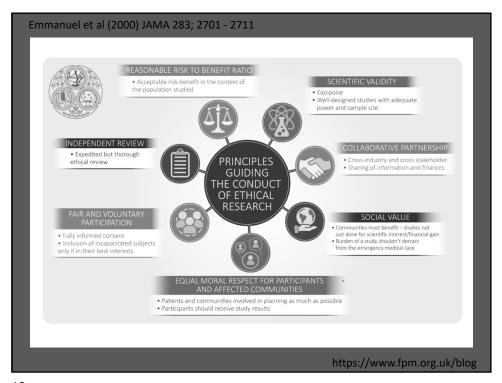
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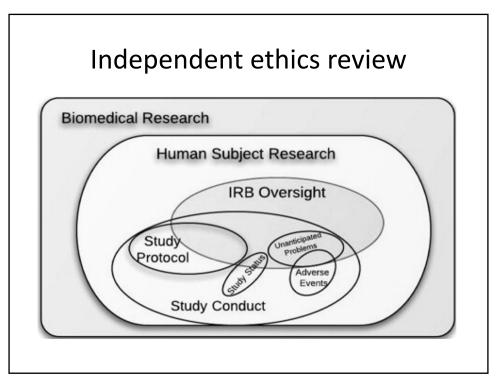


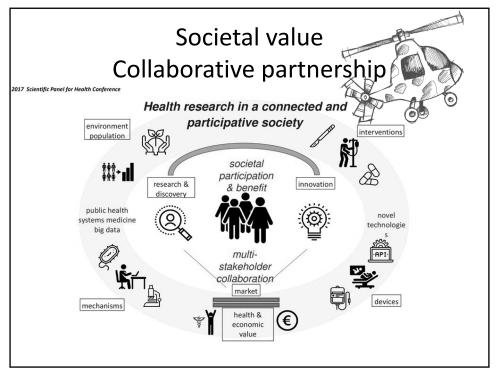
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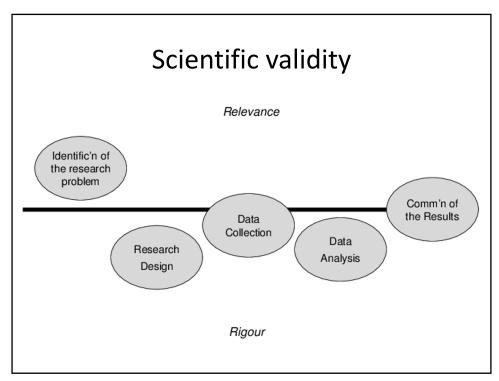


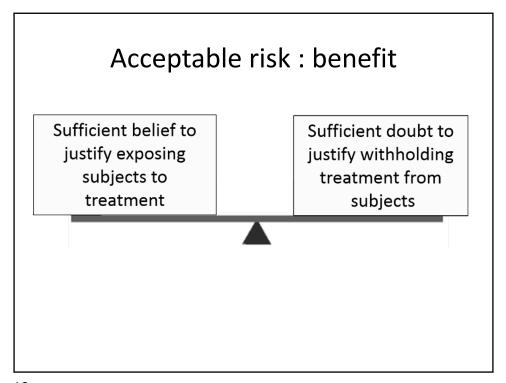
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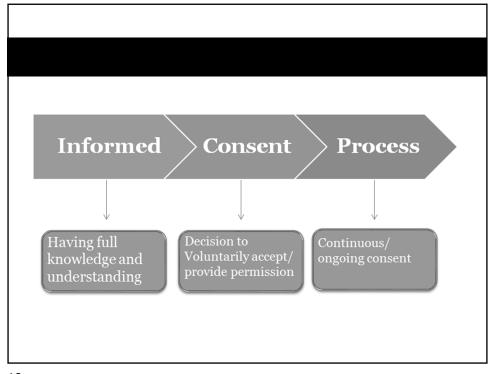
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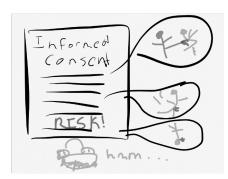
16





18

- Obtaining informed consent is particularly difficult in
 - emergency situations
 - research involving children



• Brierley; Larcher (2010) Arch Dis Child, 95(11):863-866.

19

 "When the two sets of circumstances combine, as they do when research involves the care and treatment of critically ill infants and children, there may by particular difficulties in satisfying the requirement to obtain voluntary informed consent"

• Brierley; Larcher (2010) Arch Dis Child, 95(11):863-866.

20

Informed consent...issues and options

- Children have no legal authority to make decisions for themselves
- Parent/s or legal guardian make the decision for the child

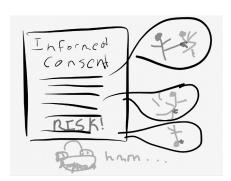


Zawistowski CA, Frader JE (2003). Crit Care Med, 31(5 Suppl):S407-10.

21

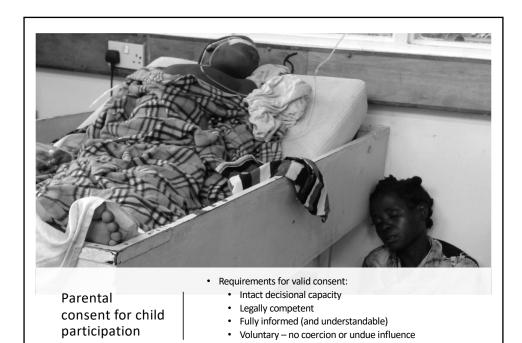
Parental consent for child participation

- Requirements for valid consent:
 - Intact decisional capacity
 - Legally competent
 - Fully informed (and understandable)
 - Voluntary no coercion or undue influence



 $\underline{\text{http://www.medicalprotection.org/southafrica/booklets/consent/introduction}}$

22



Parental incapacity

- if at the time a decision needs to be made he or she is unable, temporarily or permanently and irrespective of the cause
 - to make the decision for him or herself on the matter in question; or
 - to communicate his or her decision on that matter.
- if he or she is unable
 - to understand or retain the information relevant to the decision; or
 - to make an informed, rational decision based on that information.
 - South African Law Reform Commission, Discussion Paper 105, <u>Assisted Decision-making: Adults with Impaired Decision-making Capacity</u> (January 2004).

24

- In order to make decisions for their children, the parent would need to display:
 - · commitment to the child's best interests
 - · adequate knowledge and information
 - · emotional stability
 - the ability to make reasoned judgements
 - (Childress 1985)
- Only a parent with decisional capacity can give truly informed consent



- Zawistowski CA, Frader JE (2003). Crit Care Med, 31(5 Suppl):S407-10.
- Childress (1985) Protecting handicapped newborns. In Genetics and the Law: III. Edited by Milunsky A, Annas GJ. New York: Plenum Press.

- Problems with obtaining consent from a parent with a critically ill child
 - Impracticability (parent absent or urgent action needs to be taken, e.g. resuscitation)
 - Concern about validity of consent:
 - Severe illness of a child has significant emotional and psychological effects on parents which may impair capacity for rational informed decision making, including decisions relating to research
 - Levels of stress approach panic at times
 - May be **completely unable to assimilate study information** under the circumstances
- Brierley, Larcher (2011) J Med Ethics 2011, **37**(7):429-432.
- Shudy et al (2006). Pediatrics, **118 Suppl 3**:S203-18.
- Molyneux et al (2013). PLoS One, 8(2):e54894.

26

Clinical Research vs Clinical care

Clinical Research

 Generate generaliseable knowledge for future patients

Clinical care

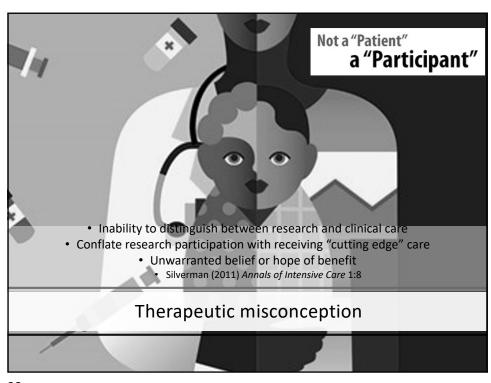
 Provide benefit to individual patient (now)





Silverman et al 2005 Crit Care Med 33(4) 867 - 882

27



28

Do you ALWAYS need informed consent?

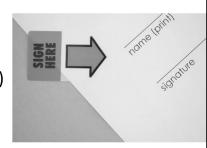
- Research in critically ill or injured children may be ethically justifiable without full voluntary informed consent if
 - potential to benefit the population by producing evidence or a better understanding of best treatment,
 - and where the intervention has only minimally increased risk in the context of the child's underlying condition.

Brierley, Larcher (2011) J Med Ethics 2011, 37(7):429-432.

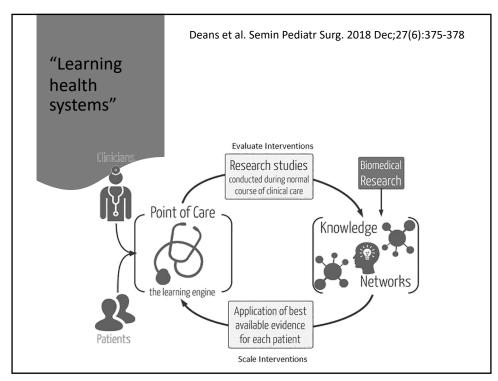
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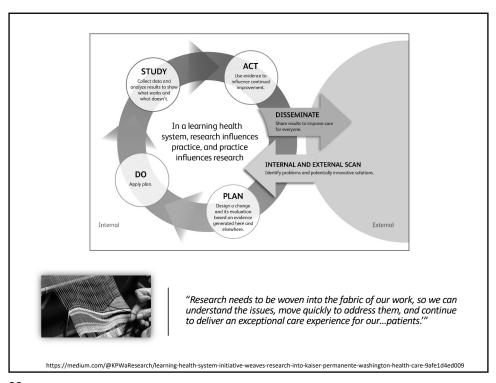
Informed consent models

- Prospective IC (>minimal risk)
 - E.g. Drug trials
- Deferred (low risk/emergency Rx)
 - E.g. paed CPR
- Waived (very low risk)
 - E.g folder reviews/audits



30





32

