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Evidenced Based Practice & Developmental Science

- "The integration of the best available research with clinical expertise in the context of patient characteristics, culture, and preferences" APA, 2005
- "The systematic synthesis of research and applications to promote optimal developmental outcomes in the context of stakeholder characteristics, culture, & preferences"



 "Prepare, maintain & make accessible systematic reviews of the effects of interventions so as to inform precedent and inauguration (Boruch)



Beneficence & NonMaleficence

As the potential for developmental science to promote the welfare of children and families increases so does the potential to unintentionally inflict harm:

- Ill-informed social policies
- Group stigmatization
- Direct harm to individual participants



Beneficence & Scientific Validity

 To be of benefit, an "experiment should be such as to yield fruitful results for the good of society"

Nuremberg Code, 1946



- Scientific principles
- > Systematic collection of reliable and objective information Campbell Collaboration Evidence Grading Scheme (EGS);
- Multidisciplinary & Multi-Contextual
 Knowledge & Methods
- Knowledge of biological, physical, interpersonal, cultural, & historical factors relevant to desired outcomes
- Multidisciplinary & multi-contextual methods of assessment (Boruch)
- Co-morbidity (Weisz)



Temporality of change

- Change produced by interventions at one point in the life cycle may be only temporary; Weisz "Do treatment effects last?"
- Research most useful for practice & policy -- will consider shortterm and long-term outcomes--including the need for developmental boosters.
- "Treatments are designed to be linear but problems are not" Weisz recommends a modular approach



- Efficacy-Effectiveness Studies
- Standardized Vs.
 Clinical/Educational/Services Practice
- Evidence Based Assessment (needs & outcomes)

(Weisz)



- Research benefits can be maximized and harms minimized by analysis of characteristics of participants and experimental methods that may conjointly reduce or exacerbate research vulnerability.
- Fitting research procedures to participant characteristics will maximize scientific advancement and the protection of participant and social welfare.

Weisz Specificity of Treatment Effects



Goodness of Fit Intervention Design & Evaluation

Bidirectionality

- Research and theory guide intervention strategies
- Evaluation of interventions & policies inform theory & future research



Intervention Goods Who decides?

"Public health is what we, as a society, do collectively to assure the conditions in which people live can be healthy." 10M 1988

"Public health is primarily concerned with the health of the entire population, rather than the health of individuals"

Childress et al (2002) J Law, Medicine & Ethics



Gatekeepers & Stakeholders

- Policy Makers
- Funders
- Investigators
- Communities
- Service Providers
- Family Members
- Participants



Role of Gatekeepers & Stakeholders

- Identify problems in need of investigation
- Ecological validity of:

Hypotheses

Data interpretation

One "size fits all" risk prevention & development promoting programs

- Feasibility & Sustainability of:
 - Manualized treatment
 - Standardized teaching
- Individual and group harms



We need to fit intervention research to:

- The need for treatment options recognizing stakeholder disagreements (parent-childtherapist)
- Co-morbidity
- Standardized vs. Clinical Methods
- With practitioner competence & possibilities for training
- Need for easily accessed information (Campbell Corporation)

Stakeholder Knowledge and Goals

INVESTIGATOR

- Apply & Generate Knowledge
- Scientific method
- Testable hypotheses,
- Range of ethical procedures available to protect participant rights and welfare
- Continued research support

SPONSORS & POLICY MAKERS

- Fiscal Priorities
- Political priorities
- Timing priorities
- Obligations to constituents outside the participant community

PARTICIPANT COMMUNITY

- Health priorities
- Cultural values
- Fears and hopes about the general or specific scientific enterprise
- The real world context in which hypotheses will be studied

PRACTIONE RS

- Employment concerns
- Intervention skills & preferences
- Training needs
- Fears & hopes about the consequences of evaluation
- Understanding of the real world context in which hypotheses will be studied



- Mutual investment in scientifically valid and ethically conducted studies
- Different perspectives on the value, validity, risks and potential benefits of research.
- The responsible conduct of research is informed by and implemented through a fitting of these mutual goals and different perspectives.
- Goodness of fit is achieved through a process of colearning among stakeholders



Which stakeholder represents the primary ethical relationship?

- Participants: Protection of autonomy & privacy, welfare
- Science: Threats to scientific validity
- Practitioners: Privacy protections, respect for professionalism, training
- Community: Social value, community stigma, &sustainability
- Sponsors & Policy Makers: Feasibility & accountability



Goodness of Fit Ethics

- Ethical Commitment to do the right thing
 "Minimizing bias" (Campbell Collaboration)
- Ethical awareness to identify ethical challenges among stakeholder needs
- Ethical competence to generate alternative solutions to balance ethical priorities



- Resist pressure to conduct studies that serve the wishes of the majority society at the expense of participant population needs
- Resist societal or policy pressures to draw conclusions about cause-effect relationships that go beyond the data
- Avoid confusing economic, multilevel or process limitations of an intervention strategy with limitations of populations served
- Evidence that an intervention is ineffective serves society as well as evidence of intervention effectiveness (both new interventions & treatment as usual)

Justice

 Children and families should have equal opportunities to share the benefits and burdens of intervention research

Scientific Validity through a Cultural Lens

Race, Ethnicity & Culture

Definition Fluidity

Identity

- Panethnic categories
- Population Generalizability
- Within group differences

Goodness of Fit

- Describe theory & evidence for definitions of race, ethnicity, or culture
- Avoid panethnic terminology
- Consider within group differences
- Justify the use of comparative designs
- Select/construct measures with psychometric evidence of cultural validity/equivalence
- Consider the effect of racial discrimination
- Study coping & resilience



EXPERIMENTAL & CONTROL GROUPS

Equipoise

"There is a state of honest disagreement in the community of experts as to the preferred intervention"

Control Groups

- > Local vs. Best Practices
- Ethnic & class disparities in access to services

Longitudinal Studies

- Cannot provide effective intervention at end of study
- > Discourage individuals from seeking services
- > Sustainability



Informed Consent

How can investigators:

- Respect the dignity and autonomy of vulnerable participants to consent to intervention research and
- Insure that ill-informed or incompetent choices do not jeopardize their welfare or leave them open to exploitation?



Goodness-of-Fit

Identifying Vulnerability
 Which characteristics of the individual and research context render participants more or less susceptible to consent misunderstandings or coercion.



Individual Consent Vulnerabilities

- Cognitive Vulnerabilities
 - Mental Health Disorders
 - Medical Disorders
 - Immaturity & lack of experience
- Legal Naiveté
 - Consent is a waiver of rights
 - Unfamiliar with state reporting laws



Research Context Consent Vulnerabilities

Dual Roles

- Investigator & Service Provider
- Research & Service Program

Consequences

- Fears about continuation of services
- Therapeutic misconception



Waiving Parental Permission

- Permission should not be waived for investigator convenience
- Mature minors
- Confidentiality concerns
- Best interests of the child
- Familiarity with research & research rights
- Cultural conceptions of adult authority
- History of Family Decision Making
- Avoid Institutional biases and cultural stereotypes
- Consent Advocate



Minimizing Consent Vulnerability
How can research and ethical procedures be fitted to participant characteristics to minimize vulnerability?



Enhancing Consent Capacity

- Simplified presentation
 - Terms
 - Reading level (5th grade)
 - Video presentation
 - Sequential single-unit disclosure
 - Question-answer format
- Supported decision-making
- Participant advocates



Research Participant's Bill of Bruzzese & Fisher (2003) Applied Developmental Science

- To be fully informed
- To have all questions answered
- To freely choose to participate or to refuse participation
- To withdraw or not answer questions

- To privacy and confidentiality
- To be protected from harm
- To know the results of the study
- To understand these rights



Confidentiality

Protects

Participant privacy
Social, economic, and criminal harms

Encourages

Future participation
Participant responsibility

Avoids

Feelings of betrayal

Actions based on false or inaccurate data

Undue investigator decisional authority (Fisher, 2002, 2003)



Confidentiality Procedures

- Anonymity
- De-identification
- Subject Coding
- Certificate of Confidentiality



Confidentiality Uncommon Challenges

- Recruitment Risks
 - Identified treatment sites
 - Interviews in the community
 - Interviews with informants
- Disclosure Risks
 - Identification of members of unique populations



Confidentiality Uncommon Challenges

- Unexpected Information About Harmful Behaviors
 - Toxic drug dose to self or others
 - Child abuse or neglect
 - Statement of violent or suicidal intent



The Scientist-Citizen Dilemma

- Do scientists have a citizen's obligation to help those they know are in jeopardy?
- Does the investigator role supercede such citizen obligations?
- Do scientists with expertise in problems of suicidality, child abuse, or violence have a special obligation to help those they know are in jeopardy?



Reasons to Disclose

- Mandatory Reporting Laws
- Participants who are suicidal may not know they need help
- Others may be in harms way
- Iatrogenic effects of failure to disclose



Goodness of Fit Confidentiality & Disclosure Practices

- Identify behaviors or other information that might require disclosure for the specific population within the specific research context
- Evaluate whether risk can be validly assessed and if so a criteria for disclosure
- 3. Identify relevant laws for researchers & practitioners
- 4. Identify referral & reporting resources--if necessary and feasible help institutions develop services



Goodness of Fit Disclosure Practices

- 5. Consider disclosure/reporting risks (scientific validity; over-reporting; lack of services)
- Determine a policy that fits the needs of the population, legal requirements, and research and community resources Train the research & intervention team
- 7. Clearly explain disclosure procedures in parent permission & child assent.



Training for Evidence Based Intervention Research

- Developmental research methods & theory
- Interpreting Effect Size & use of meta-analysis (Weisz)
- Normative & atypical developmental processes
- Contextual influences & multidisciplinary collaboration
- Policy analysis
- Stakeholder needs analysis, program design, & evaluation
- Evidence based assessment & interventions
 Weisz graph on evidence based training; Campbell Corporation database
- Co-learning approaches to investigator-participant partnerships (identify problems, train practitioners, feasibility)
- Principles for the responsible conduct of research