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JOHNS HOPKINS
BLOOMBERG
SCHOOL *of* PUBLIC HEALTH

Section C: Balancing the Different Dimensions and Outcomes of PHC Field Research

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Dimensions of PHC Field Research



Balancing Different Dimensions of PHC Field Research

- Objectives
- Design
- Implementation



Balancing Different Dimensions of PHC Field Research

- Objectives
- Design, management, and evolution of interventions
- Cost, effectiveness, and replicability



Balancing Different Dimensions of PHC Field Research

- Priorities and needs
- Level of involvement, control, and empowerment
- Sustainability
- Use of controls and other ethical issues



Dimensions of PHC Field Research



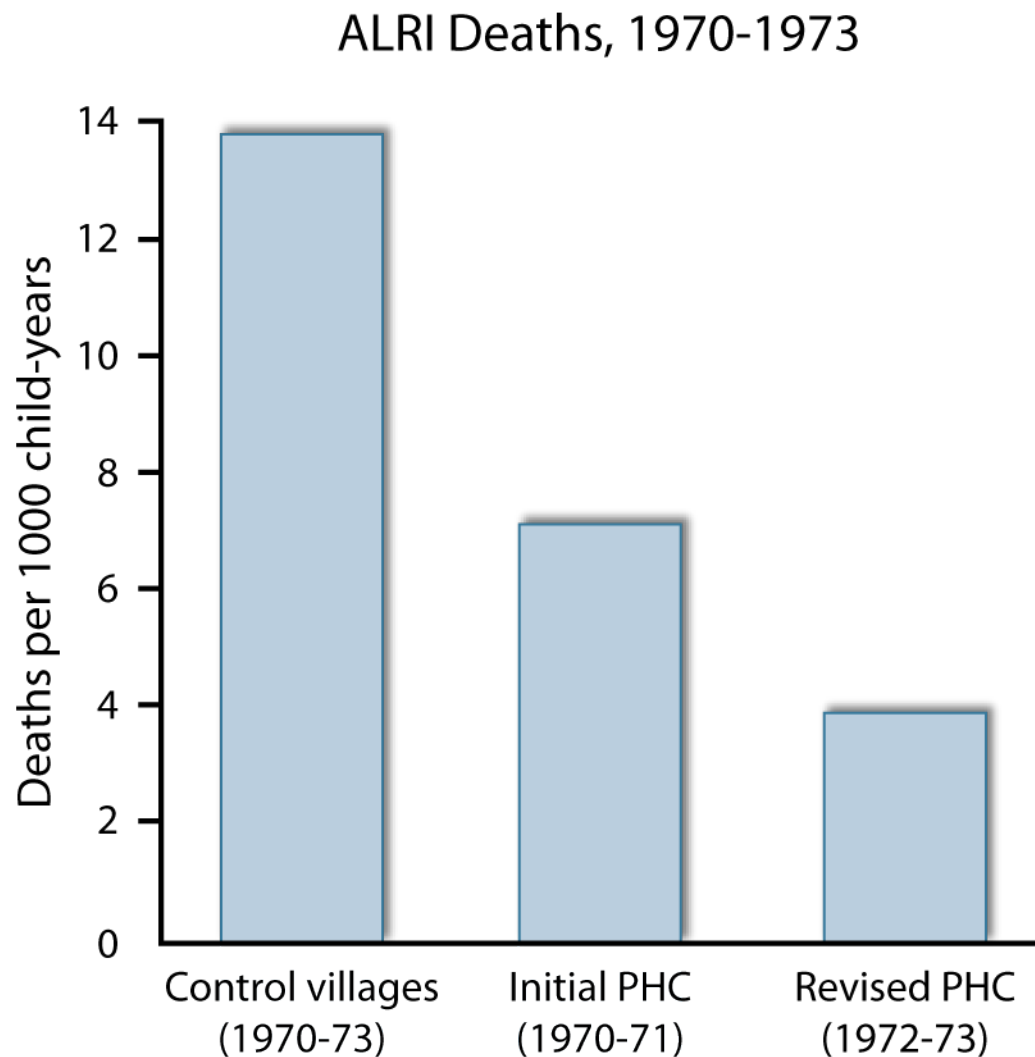
The Narangwal Experience

- Started with clear external research objectives
- Services were not static but evolved over the life of the project
- Design: workers per experimental cell the same, interventions varied
- Community involved from the beginning

Experimental Cells

	No nutrition	Nutrition	
No health care	<p>CONT-N</p> <p>Ghuman Jane</p>	<p>NUT</p> <p>Kalad Gurum Bcol</p>	
Health care	<p>HC</p> <p>Tugal Rottowal</p>	<p>NUTHC of FPCC</p> <p>Mansuran Rattan Saya</p>	<p>FPWSCC or NUTHC-P</p> <p>Ballowal Chaminda Dhaipee Dolan Kalan</p> <p>Child care</p>
	<p>CONT-P</p> <p>Dangon Leel Nangal Kalan Rajgarh</p>	<p>I-PED</p> <p>Barmi Rajoana-Kafan Lijtar Rajoana Khurd</p>	<p>F-PWS</p> <p>Chomon Sekha Uksi-Dudhal Kishanpura</p> <p>No child care</p>
		No women's services	Women's services

ALRI Deaths in Children: Narangwal Project, 1970-1973

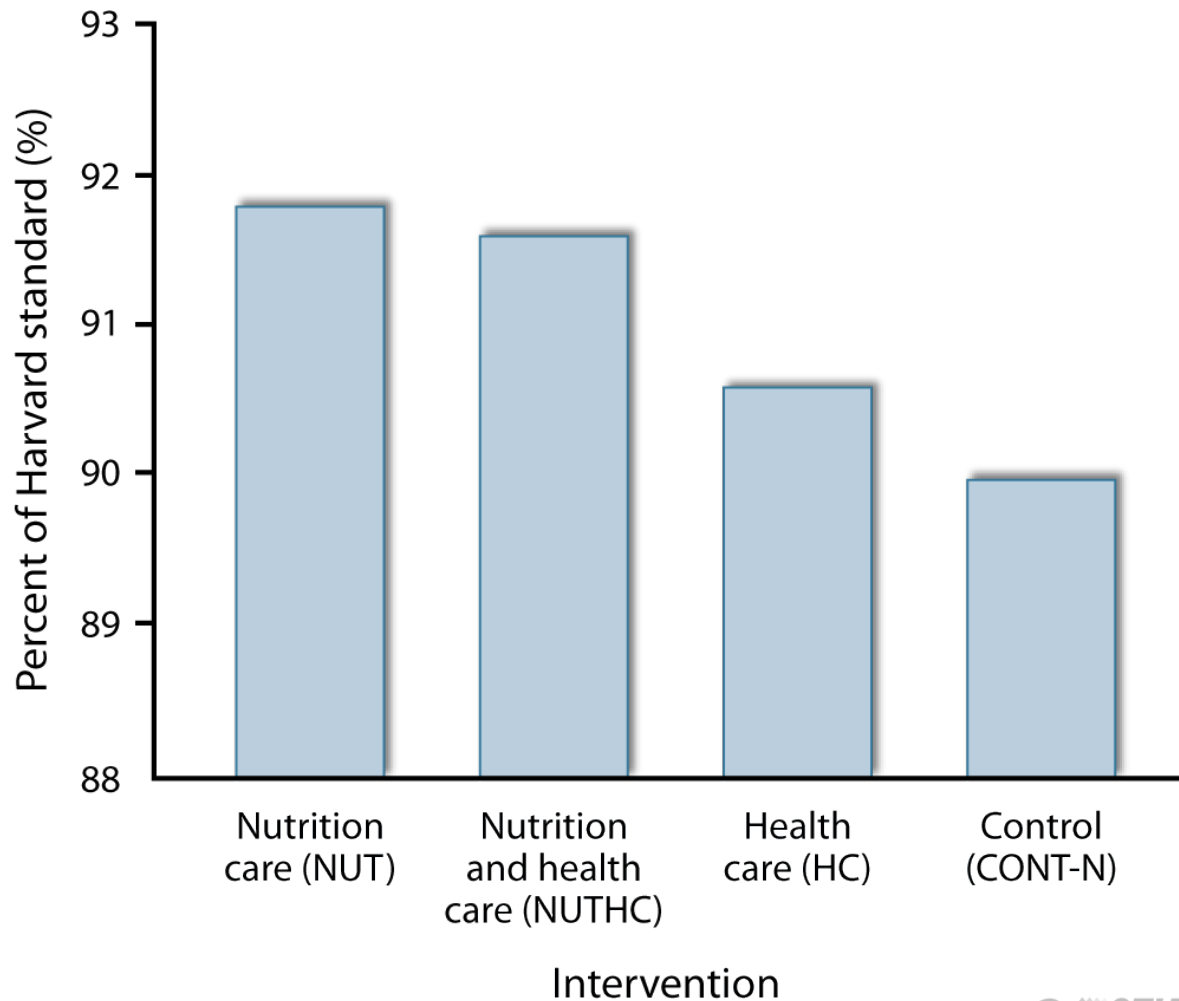


Mortality Rates by Experimental Groups 1970-1973

	Control	Health care	Nutrition	HC+NUT	HC+NUT +WS
<i>NMR</i>	77.8	46.7	48.3	47.4	63.9
<i>PNMR</i>	52.2	23.3	48.3	33.6	54.2
<i>IMR</i>	129.2	70.0	96.6	81.0	118.1
<i>1-3MR</i>	18.6	11.0	11.0	13.3	7.3

Effects of Interventions

Effects of Interventions on Height-for-Age at 24-36 Months of Age
Narangwal Nutrition Project



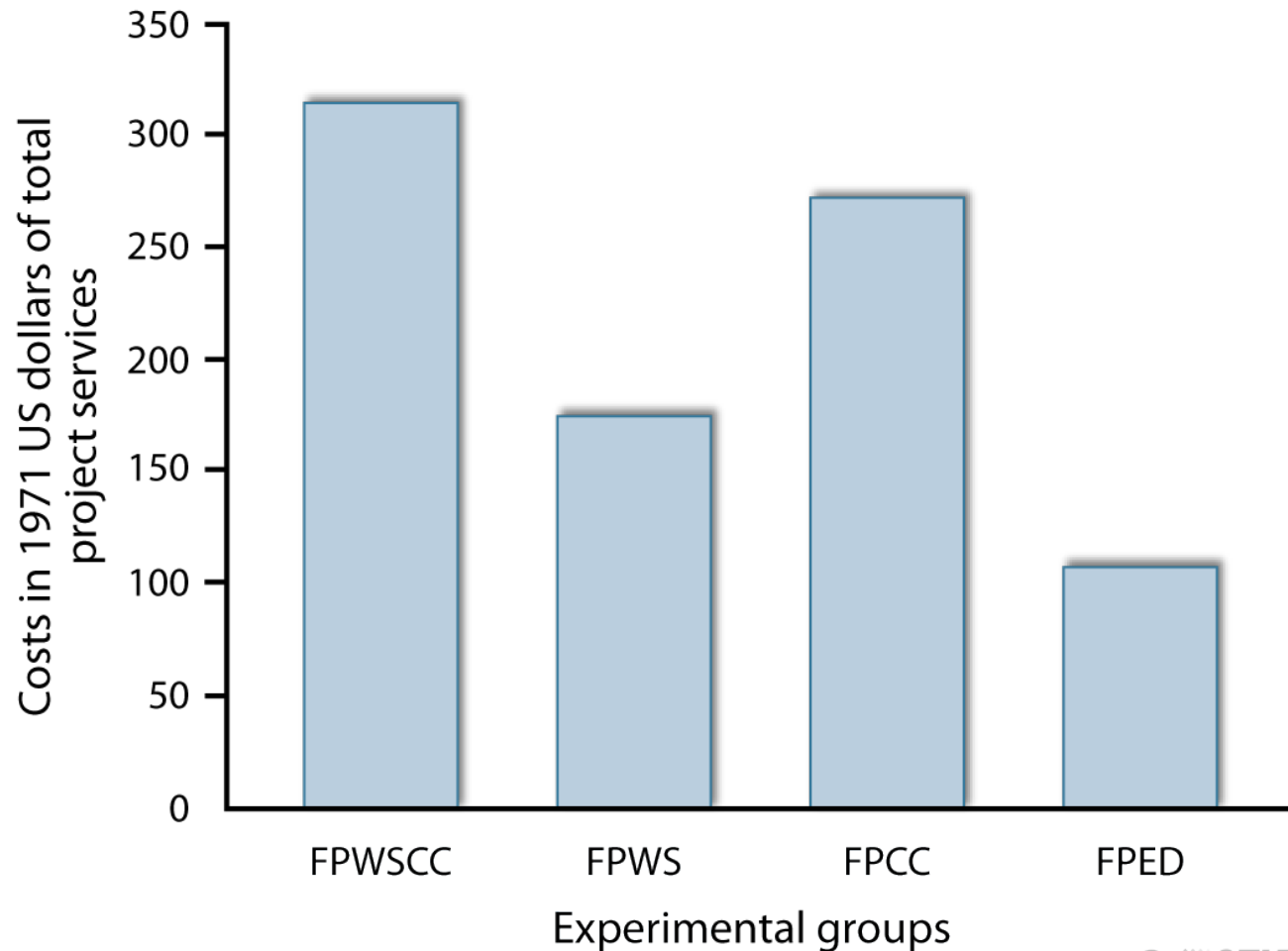
Adapted from Kielmann, A. A. and C. E. Taylor (1983). Child and maternal health services in rural India : The Narangwal experiment. Baltimore, Published for the World Bank [by] Johns Hopkins University Press.

Cost-Effectiveness of Different Interventions

	Cost per infant death averted	Cost per 1-3 year-old death averted	Cost per cm of growth by 36 months	Cost per % point development score
Health care	\$25	\$31	No Effect	No Effect
Nutrition	\$36	\$72	\$30	\$14
HC + Nut	\$37	\$101	\$26	\$5

Family Planning Services

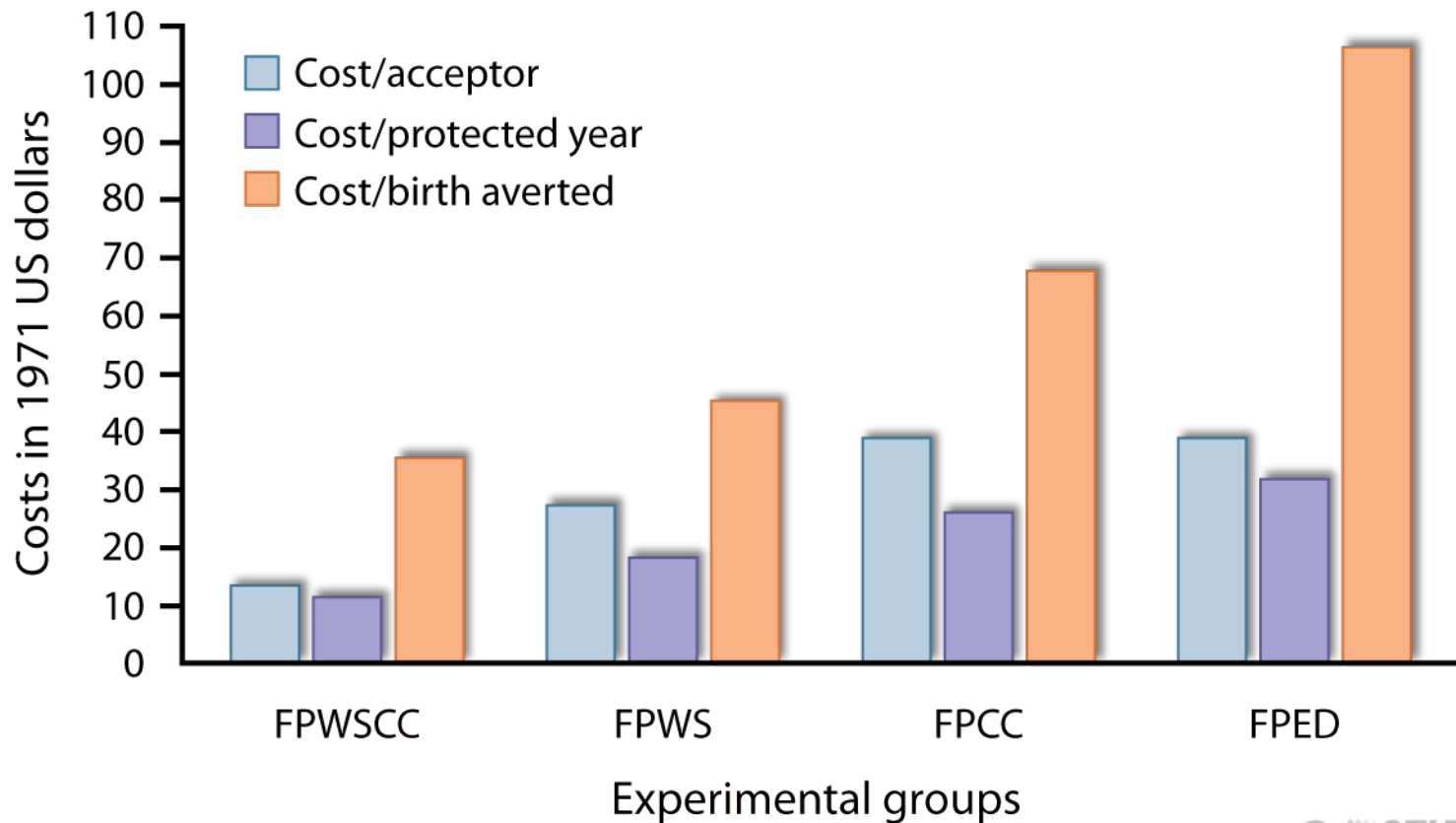
Estimated Cost Effectiveness of Family Planning Services
Narangwal Project Experimental Groups



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Family Planning Services

Estimated Cost Effectiveness of Family Planning Services
Narangwal Project Experimental Groups



Multiple Outcomes

The Narangwal experience demonstrated the importance of considering *multiple outcomes* when selecting cost-effective services for integrated community-based primary health care programs