From Data to Action:

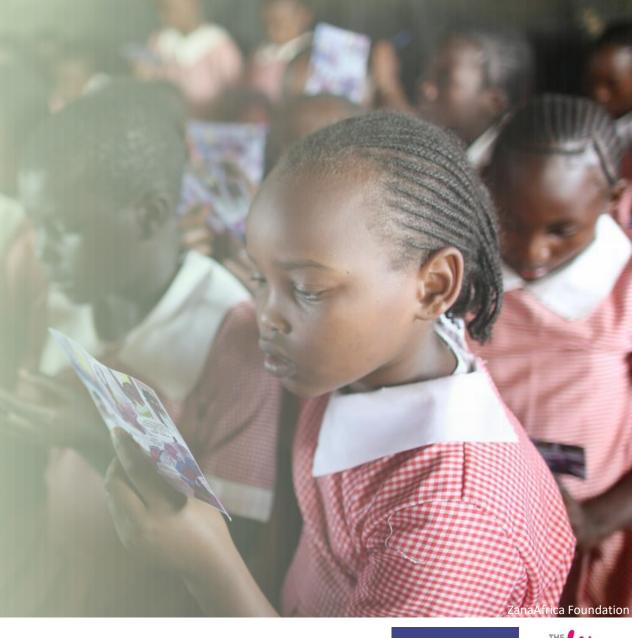
Informing Menstrual Health Management Programs

Wednesday, February 16th 2022

8:30am-9:30am New York

4:30pm-5:30pm Nairobi

Karen Austrian Director, GIRL Center, Population Council Nicole Haberland Senior Associate, Population Council Beth Kangwana Executive Director, Population Council Kenya Megan White Mukuria Founder, ZanaAfrica











Does Provision of Menstrual Health Supplies Improve Education Outcomes for Girls?

Nicole Haberland, Cara Kraus-Perrotta, Stephanie Psaki, Erica Chuang, Lauren Woyczynski, Barbara Mensch

Population Council 16 February 2022







The Girls' Education Landscape

The Good News

- Dramatic increase in girls' enrollment globally
- Gender parity achieved globally in primary and secondary enrollment

The Remaining Challenges

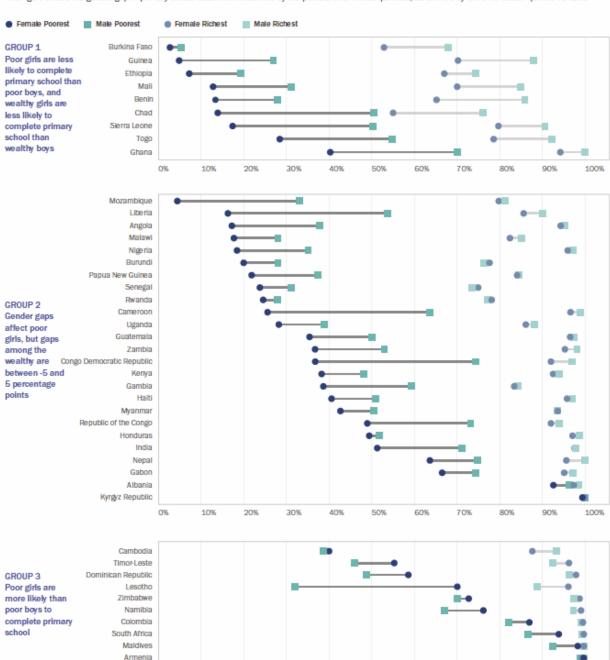
- Extended learning disruptions due to epidemics (COVID-19), environmental disasters, conflict, etc.
- Gender gaps in enrollment remain
- Progress in attainment has stagnated
- Very low levels of learning
- Conflicts between schooling and adult roles (marriage, parenthood)

Gender disparities in education persist, especially when we take an intersectional lens.

The poorest girls have the lowest attainment, worst learning outcomes, and biggest gender gaps.

FIGURE 5 Percent of population aged 20-24 completing primary school, by wealth quintile

This figure shows the gender gap in primary school attainment stratified by the poorest and richest quintiles, as defined by the DHS wealth quintile variable.



GENDER-RELATED BARRIERS TO EDUCATION



COMMUNITY



Lack of Safe Spaces & Social Connections



Inadequate Life Skills

SCHOOL



Lack of Access to School

HOUSEHOLD



Lack of Support for Girls' Education



Insufficient Academic Support



Inability to Afford Materials



Child Marriage & Adolescent Pregnancy



Gender-Insensitive School Environment



Inability to Afford Tuition/Fees



Poor Policy/Legal Environment



Lack of Water & Sanitation



Lack of Information on Returns to Girls' Schooling



Inadequate Sports Programs for Girls



Lack of Teaching Materials & Supplies



Lack of Adequate Food



Inadequate Health & Childcare Services



School-Related Gender-Based Violence



Inadequate Menstrual Hygiene Management

Methods

DOt 10.1002/d2.1207

SYSTEMATIC REVIEW



Policies and interventions to remove gender-related barriers to girls' school participation and learning in low- and middle-income countries: Asystematic review of the evidence

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Population Cound, Washington, District of Columbia, USA Population Cound, New York,

Correspondence

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Funding information Echidna Giving

Abstract

Background: Gender disparities in education continue to undermine girls' opportunities, despite enormous strides in recent years to improve primary enrolment and attainment for girls in low- and middle-income countries (LMICs). At the regional, country and subnational levels gender gaps remain, with girls in many settings less likely to complete primary school, less likely to complete secondary, and often less likely to be literate than boys. The academic and policy literatures on the topic of gender-related barriers to girls' education are both extensive. However, there remain gaps in knowledge regarding which interventions are most likely to work in contexts with different combinations of barriers.

Objectives: This systematic review identified and assessed the strength of the evidence of interventions and exposures addressing gender-related barriers to schooling for girls in LMICs.



Search Strategy

- The AEA RCT Registry, Africa Bibliography, African Education Research Database, African Journals Online, DEC USAID, Dissertation Abstracts, EconLit, ELDIS, Evidence Hub, Global Index Medicus, IDEAS-Repec, Intl Clinical Trials Registry, NBER, OpenGrey, Open Knowledge Repository, POPLINE, PsychINFO, PubMed, Research for Development Outputs, ScienceDirect, Sociological Abstracts, Web of Science
- Relevant organizations' websites
- Review of bibliographies
- Inquiries to authors of included studies, relevant researchers and relevant organizations.

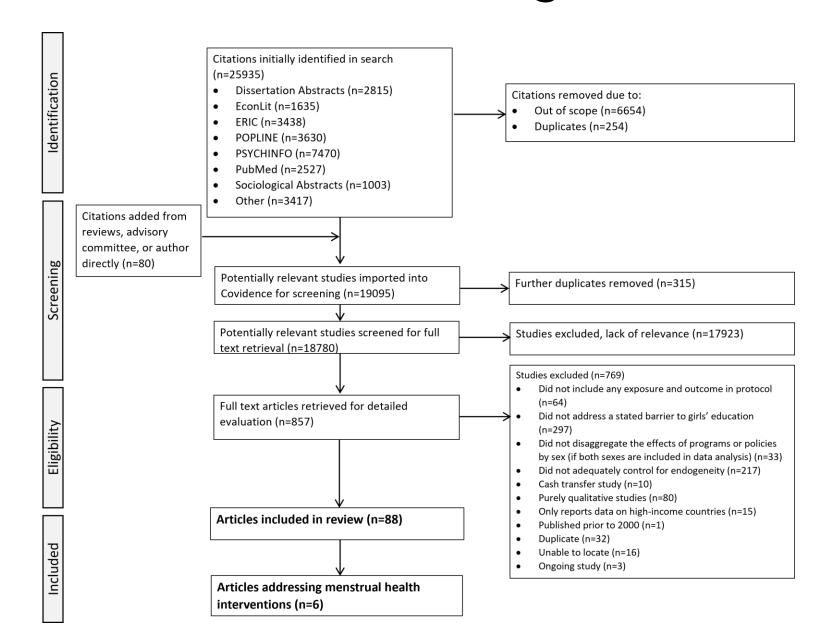
Inclusion Criteria

- Randomized controlled trials
- Quasi-experimental studies that used quantitative models that attempt to control for endogeneity
- Data from LMICs
- Published, peer-reviewed articles or grey literature such as working papers, reports and dissertations
- Published in or after 2000
- Analyzed the effects of the intervention/exposure on primary outcomes of interest (attainment/learning)
- Intervention or exposure that attempted to address a gender-related barrier to schooling

Data collection/analysis

- Pairs of reviewers independently screened for relevance, extracted data, assessed risk of bias
- Risk of bias assessed through:
 - RoB 2 tool (experimental studies)
 - ROBINS-I tool (quasi-experimental studies)
- Converted effect sizes to partial correlation coefficients given variety of model types
- Used the GRADE (Grading of Recommendation, Assessment, Development and Evaluation) approach to synthesize research as opposed to meta-analysis, due to heterogeneity of study characteristics and reported outcome measures between studies.

PRISMA Flow Diagram



MHM Results



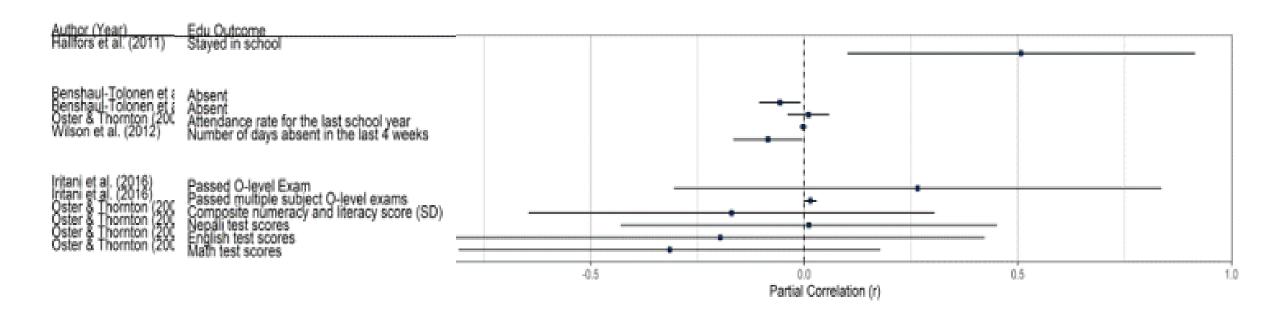
MHM Results

- Four studies
 - o Provision of menstrual cups (Oster and Thornton, 2009)
 - Provision of sanitary pads (Benshaul-Tolonen et al., 2019;
 Phillips-Howard et al., 2016)
 - Training on how to make reusable sanitary pads (Wilson et al., 2012)
 - Multi-component program including sanitary pad distribution, payment of school fees, uniforms, school supplies, and adult mentor (Hallfors et al., 2011; Iritani et al., 2016)
- All used an experimental design

GRADE Summary - MHM Interventions

Outcome Description	Effect Direction and Size Summary	Number of Papers and Participants	Certainty in Evidence (Grade Low- High)	GRADE Ranking Based on:
Enrollment in primary school	Two studies showed different results - one finding significant improvement and one finding null/unexpected negative effects on enrollment.	335 participants across 1 experimental paper	Very low ⊕000	Very low (due to few studies and serious risk of bias due to imprecision and inconsistent findings)
Absenteeism	Effect sizes ranged from small (negative) to null, with all CIs either crossing 0 or coming close to 0.	1144 participants across 3 experimental papers	Low ⊕⊕00	Low (due to few studies, imprecision from one study, and a combination of small and null effect sizes)
Academic Skills (literacy and numeracy)	Most effect sizes are null with large confidence intervals; one effect size is small and positive but comes from a study that did not focus directly on this research question.	533 participants across 2 experimental papers	Low ⊕⊕00	Low (due to only two studies, and imprecision from one study)

Forest Plot showing partial correlation coefficients and 90% confidence intervals



Conclusions

- There was not sufficient, quantitative evidence linking menstrual health supplies to education outcomes.
- We concluded that more research is needed to assess the effects of interventions that address menstrual health supplies on education outcomes.
- There are other reasons, apart from education outcomes, why provision of menstrual health supplies may be desirable.
- Those responsible for making decisions about limited education budgets need accurate information about the costs and benefits of the different interventions under consideration.



HOME

PROFILES

ORGANIZATIONS

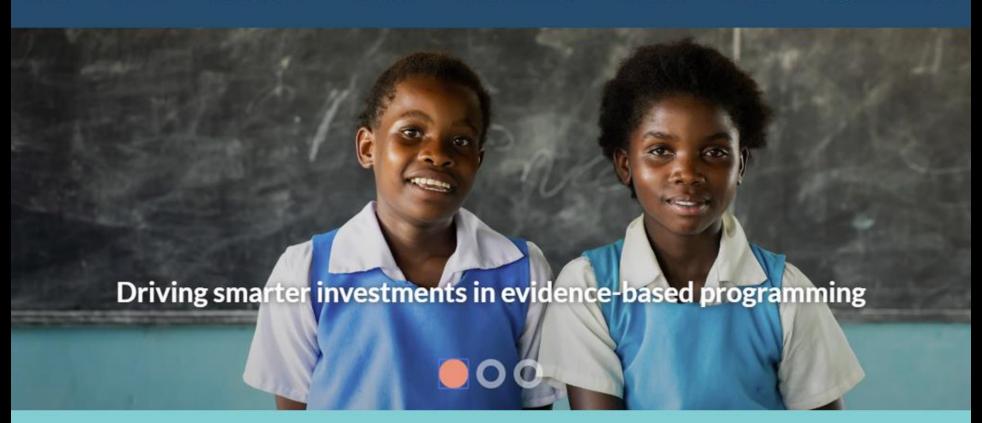
PROGRAMS

DATA VISUALIZATION

TABLE PAGE

STUDIES

EVIDENCE TO PRACTICE



www.egeresource.org



IMPACTS OF SANITARY PAD DISTRIBUTION AND REPRODUCTIVE HEALTH EDUCATION ON EDUCATION AND SEXUAL HEALTH OUTCOMES: A CLUSTER RANDOMIZED CONTROLLED TRIAL

Karen Austrian, PhD, MPH

Beth Kangwana, PhD

Eunice Muthengi, PhD, MPH

Erica Soler-Hampejsek, PhD







Background

- The onset of puberty and menarche is a vulnerable time for girls
- According to qualitative studies in Africa, these pressures are exacerbated by*:
 - girls' lack of knowledge of their bodies and their rights
 - inability to manage puberty and adolescence comfortably due to lack of access to menstrual products
- No rigorous quantitative studies examining combination of hardware and software or both education & SRH outcomes





Study Design

- Cluster-randomized controlled trial
- 140 schools in three sub-counties in Kilifi County

Arm 1 35 schools	Arm 2	Arm 3	Arm 4
	35 schools	35 schools	35 schools
Control (No intervention)	Sanitary Pads	Reproductive Health Ed	Sanitary Pads Reproductive Health Ed



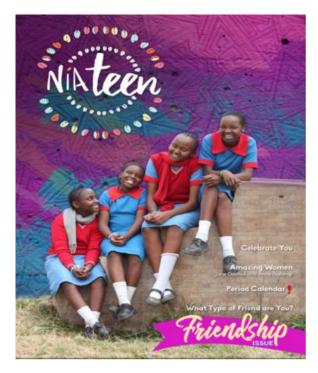


Intervention

 One pack of Nia Teen pads distributed monthly

 Underwear distributed once per term

- Reproductive Health Education
 - Girls-only sessions conducted in school, led by trained facilitator, 4-6 per term
 - Nia Teen magazine distributed once per term









Research Component

- Baseline survey (2017): conducted with 3,489 girls in Class 7 (10-21 years, mean 14.4)
- School quality survey: including WASH facilities, information on school characteristics
- School Attendance data: collected for 20 consecutive days in Term 3 2017, Term 1 2018 and Term 2 2018 (data collected on all girls and boys who were in Class 7 during Term 2 2017)
- Endline survey (November 2018): 94% of baseline sample interviewed (3,276)



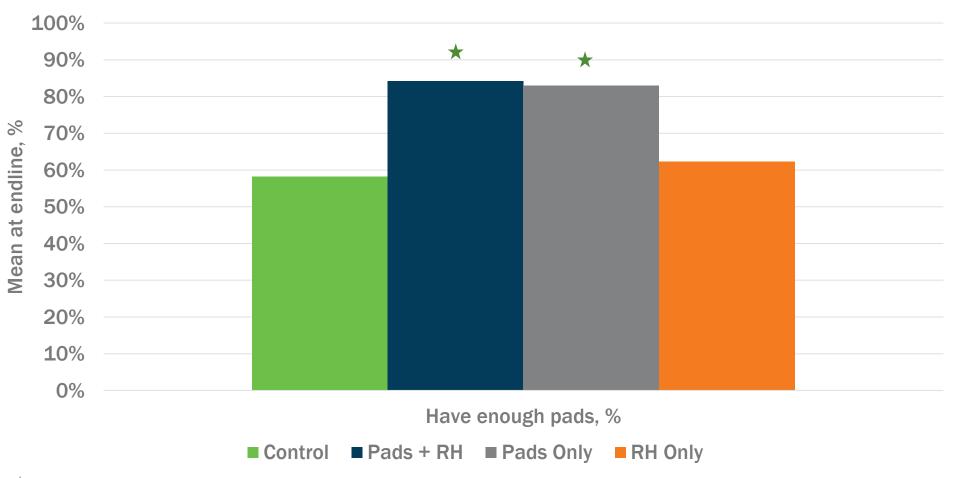


Endline Results





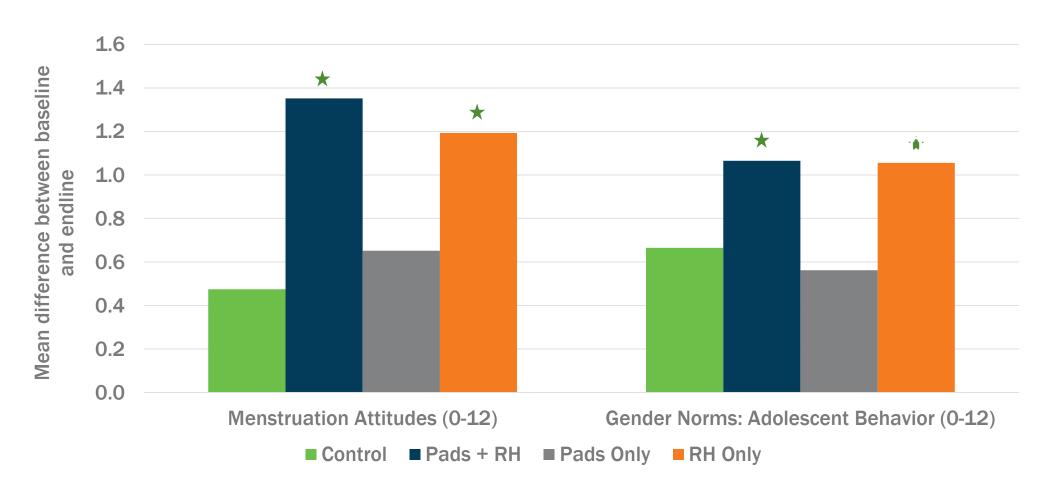
Management of Menstruation







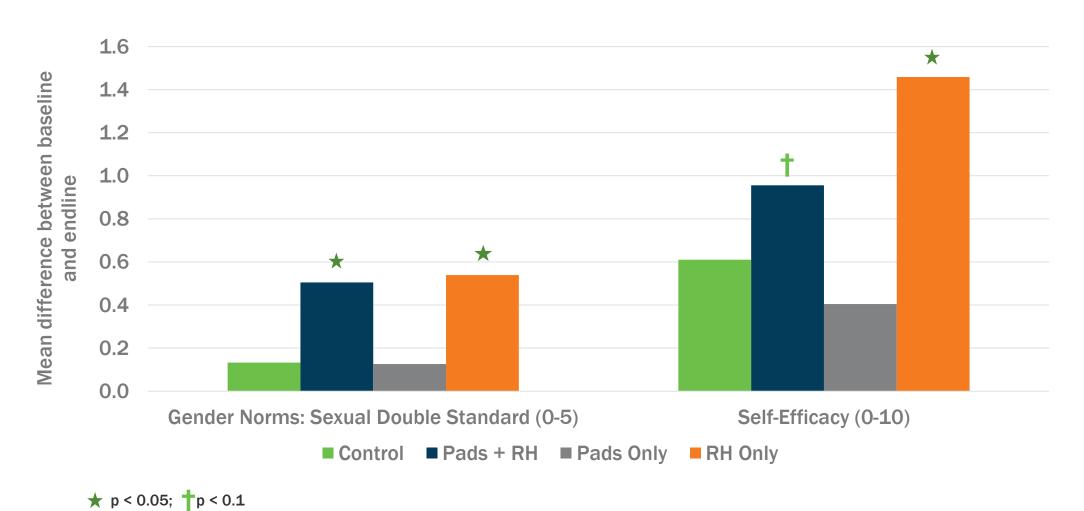
Norms and Attitudes







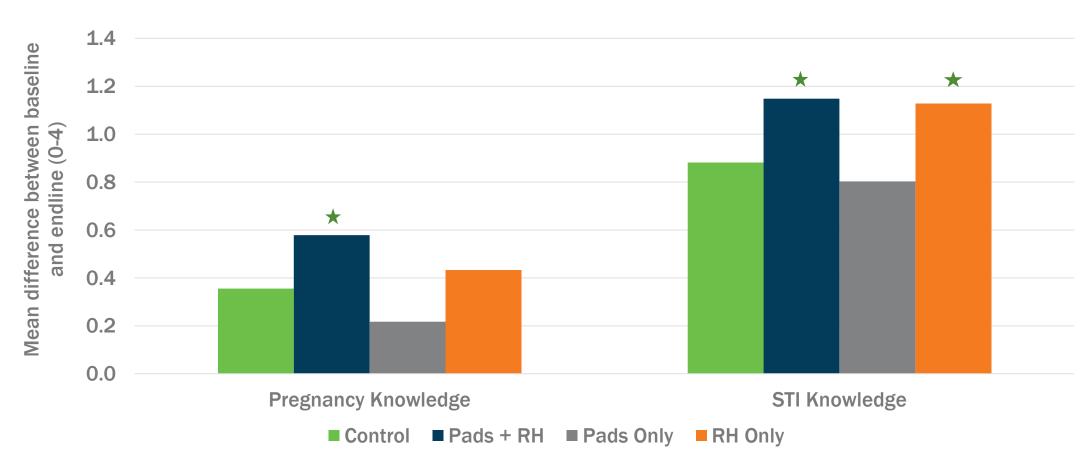
Norms & Attitudes - cont'd







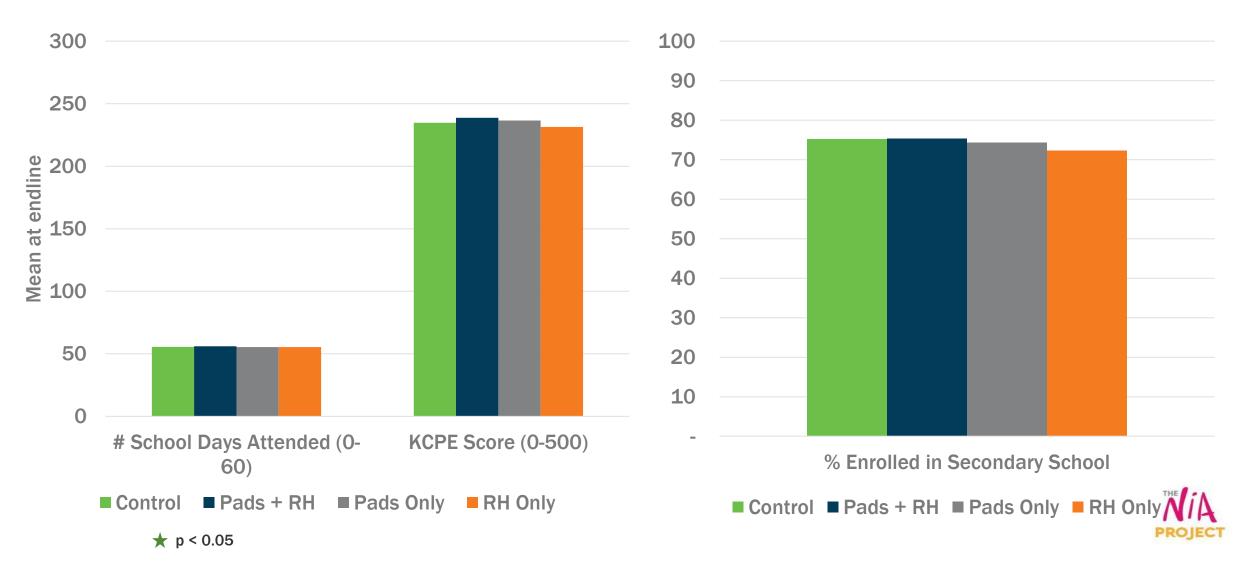
SRH Knowledge







Education Outcomes





Summary

- Pads led to improved menstrual hygiene management
- RH education led to improved SRH knowledge, self efficacy, gender norms and attitudes on menstruation
 - Combined intervention had stronger impacts on reducing shame/stigma around menstruation
- Neither intervention had an impact on education outcomes





Acknowledgements











BILL & MELINDA
GATES foundation



Thank you for joining!



Explore the evidence:



Global systematic review: Policies and interventions to remove gender-related barriers to girls' education



Effects of sanitary pad distribution and reproductive health education in Kenya: a cluster randomized controlled trial



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