Make The Cut

Using soccer to increase uptake of voluntary medical male circumcision

Grassroot Soccer Chelsea Coakley, Director of Strategy

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Background

Grassroot Soccer

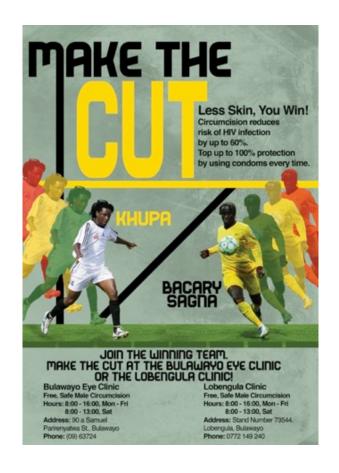
- Grassroot Soccer uses the power of soccer to connect young people with the mentors, information and health services they need to thrive.
- Single sex and mixed sex programming
- Diverse set of funders and partners

Sport-based HIV prevention**

- Systematic review conducted in 2012
- Few studies assessed service uptake
- Three RCTs completed in 2013-2014

Intervention Design

- Short, scalable soccer-based activity
- Behavioural and logistical reinforcement



^{**} Kaufman, Spencer and Ross (2013) in AIDS and Behavior

Original MCUTS Trial (2013)

Results

Cluster-randomized trial of Make The Cut in 2013

- 60-minute session with adult soccer teams (age 18+)
- 736 adult males from 47 soccer teams in Bulawayo, Zimbabwe

9-fold increase in uptake of VMMC (p=0.06)*

- 4.2% uptake in intervention group over 3m vs 0.5% in control
 Findings suggested that effect varied with age
 - No clear trend by age; numbers small



* Kaufman, DeCelles, Bhauti, et al. International AIDS Conference: Melbourne, July 2014.

MCUTS II (2014): Study Design

Secondary schools randomised into two groups in Bulawayo, Zimbabwe

- 26 secondary schools (13 intervention and 13 control)
- Stratified by public vs. private
- Male students aged 14-19 years (n=1226)

Primary outcome: VMMC uptake over 4 months

- Clinic register and consent form: matched via first name, last name, DOB, age, address, phone number, next of kin's name
- Random-effects logistic regression, adjusting for school-level clustering

80% power to detect a 3-fold increase in VMMC uptake

Assuming 2% control group uptake (i.e. 6% vs. 2%), p<0.05

Baseline surveys using Open Data Kit

- Self-administered on Android smartphones
- Assessing reported MC prevalence, knowledge, intentions



Findings

- Strong evidence of higher VMMC uptake in Intervention Group (p=0.014)
 - Approximately 2.5-times higher uptake
 - Est. Uptake in uncircumcised: 12.2% (intervention) vs.
 4.6% (control)
 - Consistent results in sensitivity analyses
- Suggests MTC is effective in increasing VMMC uptake among adolescent male students
- ~48% of participants "already circumcised"
 - Helping reach "late adopters"
- Small incentive appears somewhat motivational, yet difficult to implement and monitor

Primary Trial Results (uptake of VMMC)

		rvention Control (n=661) Comparing groups*			oups*		
Outcome	n	%	n	%	OR	95% CI	p value
Participants not reporting being already circumcised (non-MC-at-baseline)	304	53.8	371	56.1	1.02	0.72-1.45	0.90
1. VMMC Uptake (all participants)**	41	7.3	19	2.9	2.53	1.21-5.30	0.014
Restricted to non-MC-at-baseline	37	12.2	17	4.6	2.65	1.19-5.86	0.017
2. Definite links	30	5.3	12	1.8	3.05	1.13-8.24	0.028
Restricted to non-MC-at-baseline	27	8.9	11	3.0	3.06	1.15-8.14	0.025
3. Definite or Probable Links	37	6.6	18	2.7	2.47	1.18-5.15	0.016
Restricted to non-MC-at-baseline	33	10.9	16	4.3	2.59	1.23-5.45	0.012
4. Definite, Probable or Possible Links	45	8.0	21	3.2	2.56	1.24-5.26	0.011
Restricted to non-MC-at-baseline	38	12.5	18	4.9	2.61	1.19-5.72	0.016

Absolute effect: Intervention 46.2% to 53.5% circumcised vs. Control 43.9% to 46.7% circumcised

GRASSROOTSOCCER

^{*} Via random-effects logistic regression, adjusted for clustering. Analyses are by intention-to-treat.

^{**} Based on probabilistic matching as well as blind review of probable/possible matches

Lessons learned

Uptake among boys 14-19 years

- A short intervention can increase VMMC uptake
- Cost per new person seeking circumcision lower than \$50 within the trial
- Coach-player relationship important
 - Phone calls, transport, coach accompaniment to clinic
- Need for strong communication with partners
- Involvement of girls and women



Scale & Sustainability

'Make The Cut' as an integral component of comprehensive VMMC initiatives

SCALE-UP

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- VMMC as part of comprehensive HIV response
- Indirect implementation with Partners
- Direct implementation in GRS Flagship sites

2015/16

Feasibility Study: Swaziland

Swaziland Males 10-65

Soccer teams

Feasibility Study: Uganda

Uganda Boys 14-19

Schools

23% VMMC uptake

2014

Randomized Controlled Trial

Zimbabwe Boys 14-19 **Schools** 2.5-fold increase in uptake of VMMC (p=0.01)

• 12.2% uptake in intervention group vs. 4.6% in control

Coach accompaniment important

Over 2.500 circumcisions

60-minute session
Phone follow-up

60-minute session

SMS follow-up

Coach accompaniment

2013

Randomized Controlled Trial

Zimbabwe Men 18-35 Soccer teams 10-fold increase in uptake of VMMC (p=0.06)

• 4.2% uptake in intervention group vs. 0.5% in control

More effective with younger men

2012

Proof of Concept

46 percentage point increase in VMMC knowledge Zimbabwean professional players, GRS coaches go for VMMC Formative research, curriculum development



Partners

BILL & MELINDA GATES foundation



















ANNEXES

- Detailed trial results: uptake of VMMC by age
 - 2. Costing & cost effectiveness
- 3. Recommendations for scaling intervention

VMMC Uptake by Age

	Intervention (n=552)		Control (n=640)		Odds Ratio*		
Age	n/N	%	n/N	%	OR	95% CI	p value
14-15 years	14 / 229	6.1	5 / 246	2.0	3.01	0.94-9.60	0.062
16-17 years	23 / 283	8.1	9 / 341	2.6	3.26	1.48-7.17	0.003
18+ years	4 / 40	10.0	5 / 53	9.4	1.07	0.27-4.26	0.93

- Highest % uptake in 18y+, but few students and no significant intervention effect in this age group
- OR >3 in both 14-15y and 16-17y
- * Via random-effects logistic regression, adjusted for clustering. Analyses are by intention-to-treat.

Based on probabilistic matching as well as blind review of probable/possible matches



Cost-effectiveness

- Total costs of intervention = \$1,121.83
 - Training, materials, airtime, transport, coach stipend
 - Includes 15% overhead
- Cost per participant = \$1.99
 - 565 intervention group participants
- Cost per VMMC in intervention arm= \$27.36
- Cost per new VMMC generated=\$48.63
 - Does not include supply-side costs



Our Vision for Scale

Make The Cut as an integral component of comprehensive VMMC initiatives

- Prime partners and local governments integrate soccer-based demand creation component into overall strategy
- GRS to provide intervention design, technical support and unique access to soccer community
- Link interventions with mass media campaign and events involving international and local pro soccer players
- Programme Structure modeled after previous successful GRS partnership models (e.g. HCP - Sports for Life)
- GRS direct implementation in Bulawayo, Lusaka and Livingstone
- Partners implement in other 14 WHO/UNAIDS priority countries, including Peace Corps

