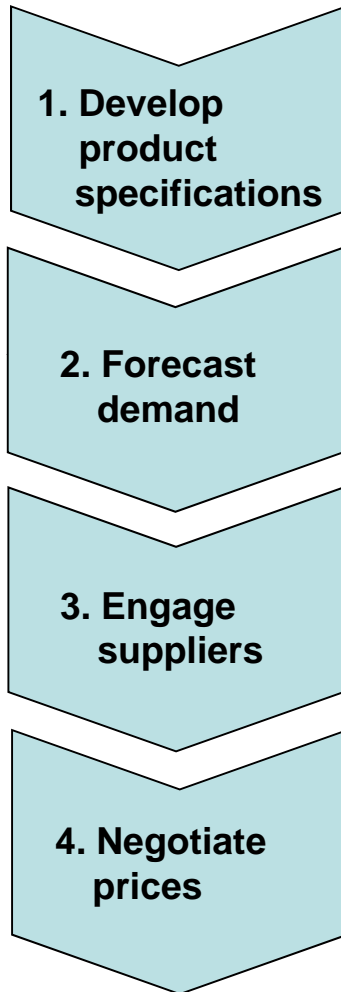


Male Circumcision kits: Preliminary options



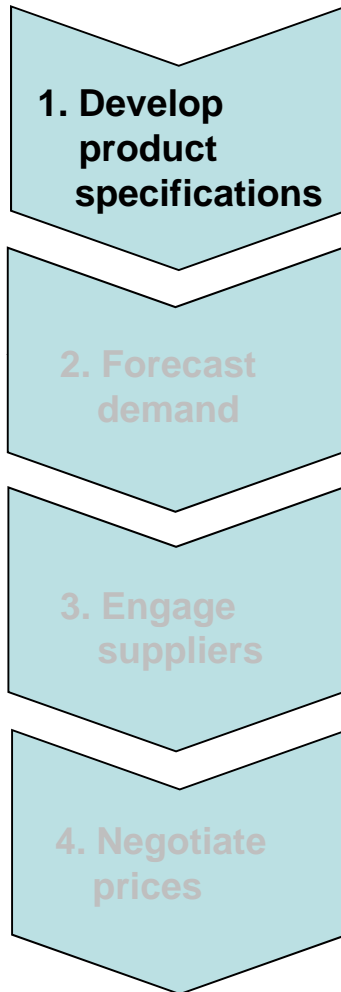
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Joanna Rosenblum
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The Clinton Foundation is exploring the feasibility of developing MC kits to facilitate access to supplies



- Are kits an appropriate option for supply procurement?
- Can we reach a consensus on kit contents?
- Is demand sufficient enough to encourage supplier engagement?
- Are suppliers interested in entering the market for kits?
- Can we ensure access to high-quality, low-cost kits for countries?

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We believe that kits are an appropriate option, but there are important drawbacks to consider

Benefits

- Bundling eases ordering and managing of supplies
- Packaging ensures disposable and consumable products are sterile
- Kits increase the efficiency of service delivery
- Kits facilitate dissemination of take-home educational material

Drawbacks

- Kits may be more expensive than buying supplies in bulk
- Kits limit the flexibility of clinicians to use their preferred equipment
- Components may be pilfered from kits, compromising sterility of remaining contents

To develop kit options, we identified key factors that impact contents and outlined kits to address each combination of those factors

3 key factors

- MC method
- Reusable vs. disposable instruments
- Use of electrocautery



	Forceps-guided	Dorsal slit or Sleeve
Disposable instruments	Kit 1A Kit 1B	Kit 2A Kit 2B
Reusable instruments	Kit 3A Kit 3B	

A = With electrocautery
B = No electrocautery

We used the Orange Farm kit as our base kit (1A): forceps-guided, disposable instruments, with electrocautery

Instruments

- 1 haemostatic clamp
- 1 needle holder
- 1 artery forceps
- 1 disposable scalpel
- 1 plastic forceps

Consumable supplies

- 10 sheets sterile gauze 10cm x 10cm
- 1 cohesive bandage 75mm x 75mm
- 3 sterile gloves
- 1 vaseline impregnated gauze 10cm x 10cm
- 1 suture material 75cm of 3.0 size absorbable material (chromic/vicryl)
- 1 syringe 10mL
- 2 needle 22 gauge
- 1 small roll adhesive tape, width app 1cm
- 1 alcohol swab
- 2 PVC apron

Pharmaceutical supplies

- 10 paracetamol tablets
- 10mL lignocaine
- 100mL betadine solution or alternative antiseptic scrubbing solution

Operating room supplies

- 1 plastic tray to house instruments
- 1 absorbent sterile drape w/penis fenestration app 750mm x 500cm

We then determined how contents would change for each key factor

If dorsal slit or sleeve

Remove: haemostatic clamp

Add: 1 surgical scissors, 1 marking pen

Instruments

~~1 haemostatic clamp~~
1 needle holder
1 artery forceps
1 disposable scalpel
1 plastic forceps **1 surgical scissors**

Consumable supplies

10 sheets sterile gauze 10cm x 10cm
1 cohesive bandage 75mm x 75mm
3 sterile gloves
1 vaseline impregnated gauze 10cm x 10cm
1 suture material 75cm of 3.0 size absorbable material (chromic/vicryl)
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Pharmaceutical supplies

10 paracetamol tablets
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Operating room supplies

1 plastic tray to house instruments
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We then determined how contents would change for each key factor

If dorsal slit or sleeve

Remove: haemostatic clamp

Add: 1 surgical scissors, 1 marking pen

If reusable instruments

Remove: haemostatic clamp, needle holder, artery forceps, plastic forceps

If electrocautery not used

Add: 3 artery forceps, 5 sheets sterile gauze, 1 suture material

Instruments	
1 haemostatic clamp	
1 needle holder	
4 / 1 artery forceps	
1 disposable scalpel	
1 plastic forceps	
	1 surgical scissors

Consumable supplies	
15 / 10 sheets sterile gauze 10cm x 10cm	
1 cohesive bandage 75mm x 75mm	
3 sterile gloves	
1 vaseline impregnated gauze 10cm x 10cm	
2 / 1 suture material 75cm of 3.0 size absorbable material (chromic/vicryl)	
1 syringe 10mL	
2 needle 22 gauge	
1 small roll adhesive tape, width app 1cm	
1 alcohol swab	
2 PVC apron	
	1 marking pen

Pharmaceutical supplies	
10 paracetamol tablets	
10mL lignocaine	
100mL betadine solution or alternative antiseptic scrubbing solution	

Operating room supplies	
1 plastic tray to house instruments	
1 absorbent sterile drape w/penis fenestration app 750mm x 500cm	

This resulted in draft contents for six preliminary kits (1A, 1B, 2A)

	Kit 1A: Forceps-guided, disposable, with electrocautery	Kit 1B: Forceps-guided, disposable, no electrocautery	Kit 2A: Dorsal slit or Sleeve, disposable, with electrocautery
Instruments	1 haemostatic clamp 1 needle holder 1 artery forceps 1 disposable scalpel 1 plastic forceps	1 haemostatic clamp 1 needle holder 4 artery forceps 1 disposable scalpel 1 plastic forceps	1 surgical scissors 1 needle holder 1 artery forceps 1 disposable scalpel 1 plastic forceps
Consumable supplies	10 sheets sterile gauze 10cm x 10cm 1 cohesive bandage 75mm x 75mm 3 sterile gloves 1 vaseline impregnated gauze 10cm x 10cm 1 suture material 75cm of 3.0 size absorbable material (chromic/vicryl) 1 syringe 10mL 2 needle 22 gauge 1 small roll adhesive tape, width app 1cm 1 alcohol swab 2 PVC apron	15 sheets sterile gauze 10cm x 10cm 1 cohesive bandage 75mm x 75mm 3 sterile gloves 1 vaseline impregnated gauze 10cm x 10cm 2 suture material 75cm of 3.0 size absorbable material (chromic/vicryl) 1 syringe 10mL 2 needle 22 gauge 1 small roll adhesive tape, width app 1cm 1 alcohol swab 2 PVC apron	10 sheets sterile gauze 10cm x 10cm 1 cohesive bandage 75mm x 75mm 3 sterile gloves 1 vaseline impregnated gauze 10cm x 10cm 1 suture material 75cm of 3.0 size absorbable material (chromic/vicryl) 1 syringe 10mL 2 needle 22 gauge 1 small roll adhesive tape, width app 1cm 1 alcohol swab 2 PVC apron 1 marking pen
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Operating room supplies	1 plastic tray to house instruments 1 absorbent sterile drape w/penis fenestration app 750mm x 500cm	1 plastic tray to house instruments 1 absorbent sterile drape w/penis fenestration app 750mm x 500cm	1 plastic tray to house instruments 1 absorbent sterile drape w/penis fenestration app 750mm x 500cm

This resulted in draft contents for six preliminary kits (2B, 3A, 3B)

	Kit 2B: Dorsal slit or Sleeve, disposable, no electrocautery	Kit 3A: Any method, reusable, with electrocautery	Kit 3B: Any method, reusable, no electrocautery
Instruments	1 surgical scissors 1 needle holder 4 artery forceps 1 disposable scalpel 1 plastic forceps	1 disposable scalpel	1 disposable scalpel
Consumable supplies	15 sheets sterile gauze 10cm x 10cm 1 cohesive bandage 75mm x 75mm 3 sterile gloves 1 vaseline impregnated gauze 10cm x 10cm 2 suture material 75cm of 3.0 size absorbable material (chromic/vicryl) 1 syringe 10mL 2 needle 22 gauge 1 small roll adhesive tape, width app 1cm 1 alcohol swab 2 PVC apron 1 marking pen	10 sheets sterile gauze 10cm x 10cm 1 cohesive bandage 75mm x 75mm 3 sterile gloves 1 vaseline impregnated gauze 10cm x 10cm 1 suture material 75cm of 3.0 size absorbable material (chromic/vicryl) 1 syringe 10mL 2 needle 22 gauge 1 small roll adhesive tape, width app 1cm 1 alcohol swab 2 PVC apron	15 sheets sterile gauze 10cm x 10cm 1 cohesive bandage 75mm x 75mm 3 sterile gloves 1 vaseline impregnated gauze 10cm x 10cm 2 suture material 75cm of 3.0 size absorbable material (chromic/vicryl) 1 syringe 10mL 2 needle 22 gauge 1 small roll adhesive tape, width app 1cm 1 alcohol swab 2 PVC apron
Pharmaceutical supplies	10 paracetamol tablets 10mL lignocaine 100mL betadine solution or alternative antiseptic scrubbing solution	10 paracetamol tablets 10mL lignocaine 100mL betadine solution or alternative antiseptic scrubbing solution	10 paracetamol tablets 10mL lignocaine 100mL betadine solution or alternative antiseptic scrubbing solution
Operating room supplies	1 plastic tray to house instruments 1 absorbent sterile drape w/penis fenestration app 750mm x 500cm	1 plastic tray to house instruments 1 absorbent sterile drape w/penis fenestration app 750mm x 500cm	1 plastic tray to house instruments 1 absorbent sterile drape w/penis fenestration app 750mm x 500cm

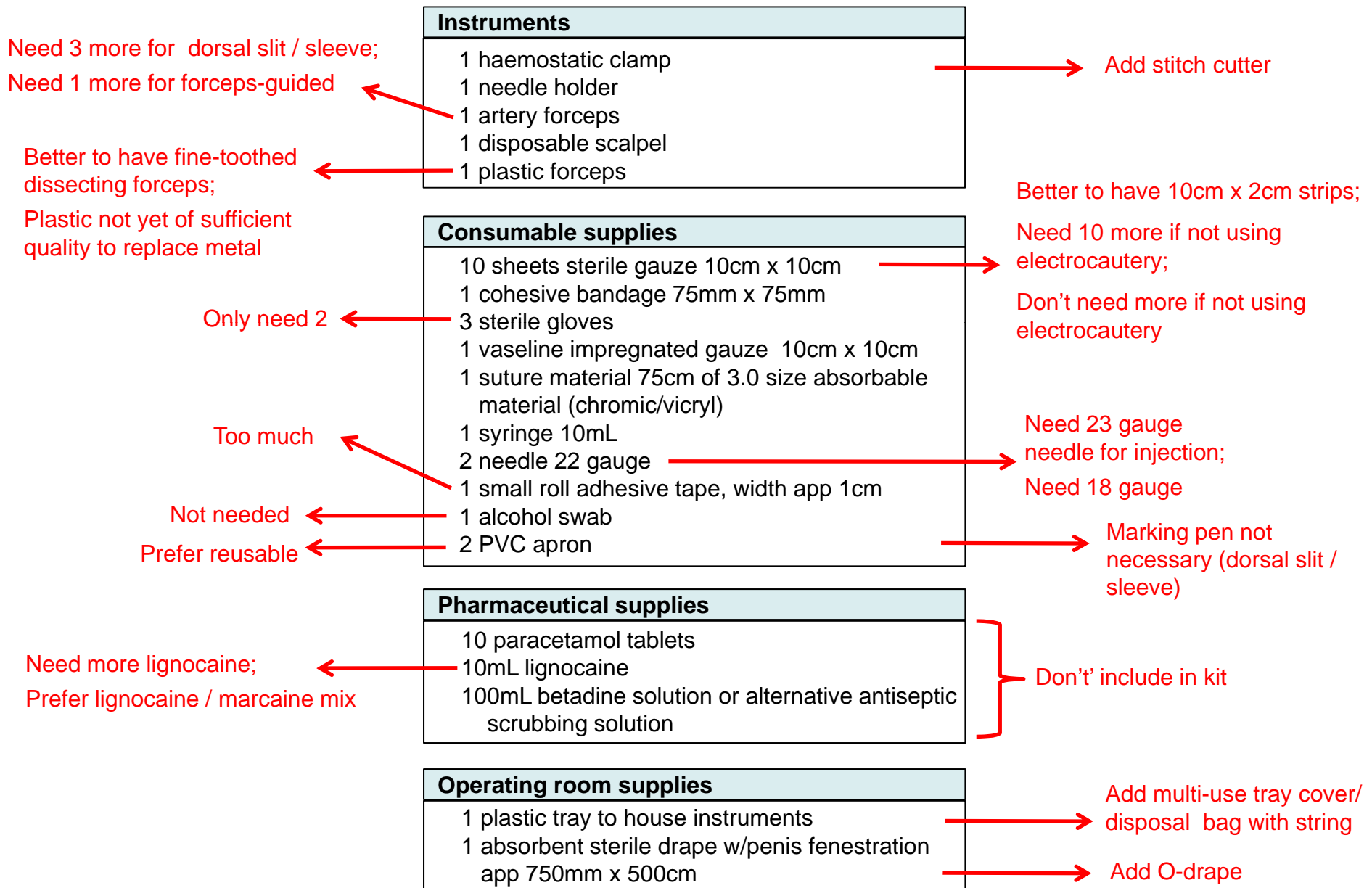
We collected feedback from 12 people, including program details to determine which kit would be appropriate for their situation

	Forceps-guided	Dorsal slit or Sleeve
Disposable instruments	<p>Kit 1A: South Africa¹, Zimbabwe²</p> <p>Kit 1B: ---</p>	<p>Kit 2A: ---</p> <p>Kit 2B: Uganda³</p>
Reusable instruments	<p>Kit 3A: Botswana⁴, Swaziland^{2,5}</p> <p>Kit 3B: Botswana⁴, Kenya⁶, Zambia⁷</p>	

A = With electrocautery
B = No electrocautery

¹ Orange Farm; ² PSI; ³ Rakai; ⁴ MOH; ⁵ FLAS; ⁶ MCC; ⁷ PSI/Jhpiego

We also collected their feedback on contents of the six kits



We are now ready to proceed with the next phase

- Collect additional feedback on contents of six preliminary kits
- Consider suggested changes to the kits, and make needed revisions
- Begin developing demand forecast for MC kits

Thank you

Bill & Melinda Gates Foundation

Strategy development

Dino Rech

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Dai Ellis

Feedback on kits

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Kristin Chrouser

Jessica Greene

Adam Groenveld

Karin Hatzold

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Michael Stalker

Stephen Watya