OF REPRODUCTIVE HEALTH SUPPLY NEEDS

A LEAP into tomorrow's supply story

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- Overview of LEAP
- Contraception Key Findings
- Menstrual Hygiene Key Findings
- Maternal Health Key Findings
- Abortion & PAC Key Findings
- Question & Answer



Please put your questions & comments in the chat and we will address them during the Q&A.

Four unique stories, one big picture

Contraception

Menstrual Hygiene

Abortion & PAC

Maternal Health

Hormonal contraceptives reduce bleeding thus lowering the need for menstrual hygiene products

Pregnant and postpartum amenorrheic women don't menstruate thus reducing the number of menstrual hygiene products



What?



People needing and using key reproductive health products



Quantities of drugs and supplies used



Cost of drugs and supplies

When?

Current Landscape



Changes Ahead (2025, 2030)

Where?



129 low- and middle-income countries

Results presented by income group:

- Low-income (29 countries)
- Lower-middle-income (49 countries)
- Upper-middle-income (51 countries)





Introduction: Expanding our Focus Across RH Supply Needs

In 2001 the Reproductive Health Supplies Coalition published what would become the first in a series of the Commodity Gap Analysis. At its foundation, the Gap Analysis had a narrow focus; covering only contraceptives and looking only at donor supported countries and predominantly public sector supplies. Over the last two decades the scope has expanded to encompass a wider set of low-and-middle-income countries, focus on the public and private sectors, provide insights into the role of subsidy within the private sector, project further into the future, and make the data and information more accessible through an interactive and online platform. All of those changes have offered the reproductive health supplies community a rich set of findings that have helped to inform critical discussions.

The expansion of the Gap Analysis, however welcomed, left a critical gap. The data only captured a sub-set of the supplies that women need to meet their reproductive health needs. This year, we break new ground by expanding to encompass three additional areas: menstrual hygiene, abortion & post-abortion care (PAC), and maternal health. Given the expansion in health areas, we have termed this new assessment LEAP for Landscape and Projection of Reproductive Health Supply Needs. We believe this new name captures the large movement forward in this year's report and better captures the breadth of the analyses included.

By expanding to these new areas, we are able to capture the synergies between them – our future projections of contraceptive use inform our estimates of how many women will experience pregnancy, which in turn inform our estimates of how many women will not be menstruating due to being pregnant or post-partum. In addition, we are able to account for the impact of the use of hormonal methods on menstruation, leading some women to need fewer or no menstrual hygiene supplies.





Reader's Guide

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Overall

Overview of LEAP

Definitions

LEAP Resources

Income Groups

Data Sources

Timeframe

Future Scenarios

Country Groups

Relative vs Absolute

Rounding

Contraception

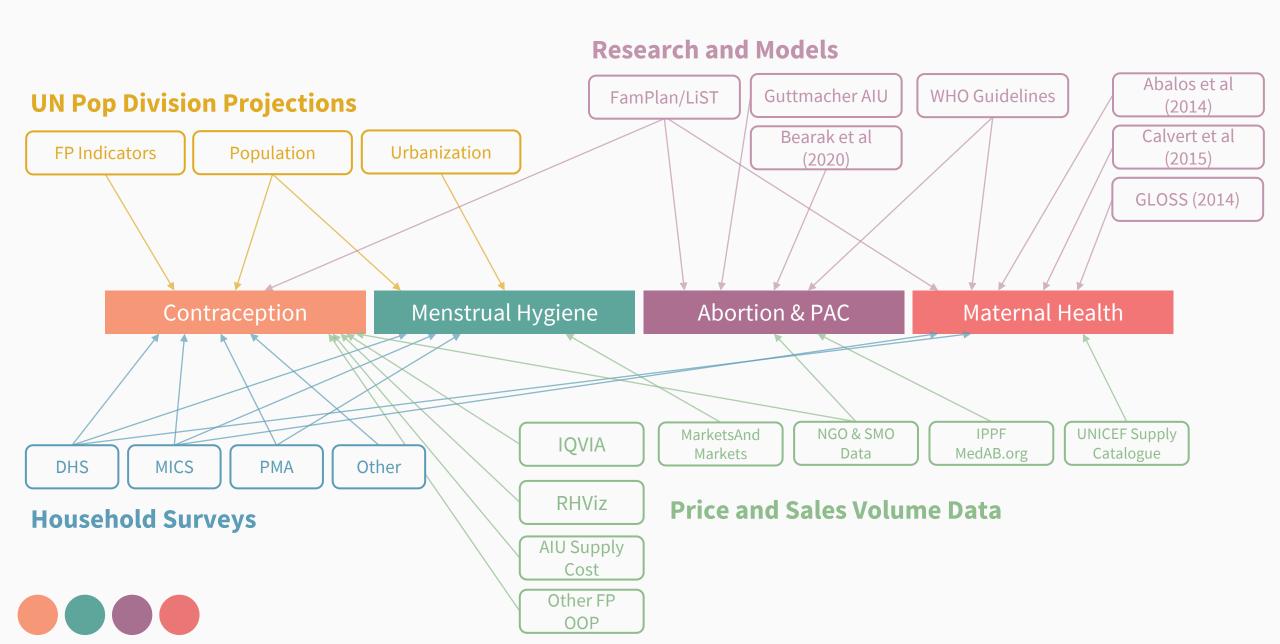
Menstrual Hygiene

Income Groups

LEAP includes 129 low- and middle-income countries [2]. For the landscape reports these countries are further segmented into three income groups as defined by the World Bank: low-income countries (29 countries), lower-middle-income countries (49 countries), and upper-middle-income countries (51 countries). Countries are segmented based on their Gross National Income per capita[3]. This segmentation allows for visibility into differential patterns across each income group and can help focus discussions on the different needs of countries at different income levels. For future projections, results are aggregated based on a country's current income group; we recognize however that countries may shift between income groups in the future.



Innovative use of range of data sources



Contraception

Menstrual Hygiene

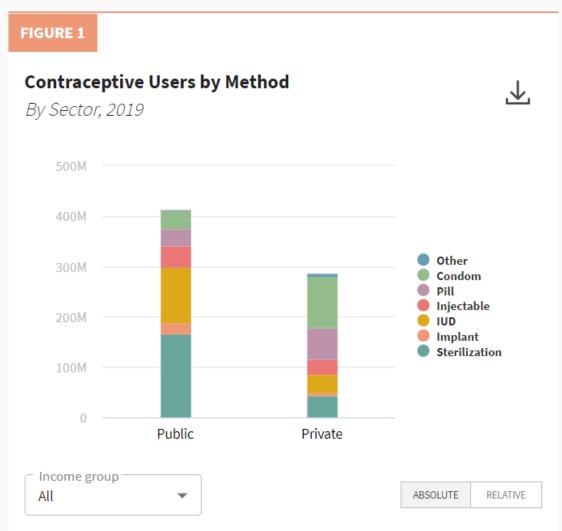
Abortion & PAC

Maternal Health



Currently there are 703 million contraceptive users across low- and middle-income countries.

- Just over half use short-acting methods
- Sterilization is most widely used method
- Nearly 60% obtain their method from the public sector
 - Most public sector users rely on long-acting and permanent methods
 - Most private sector users use short-acting methods





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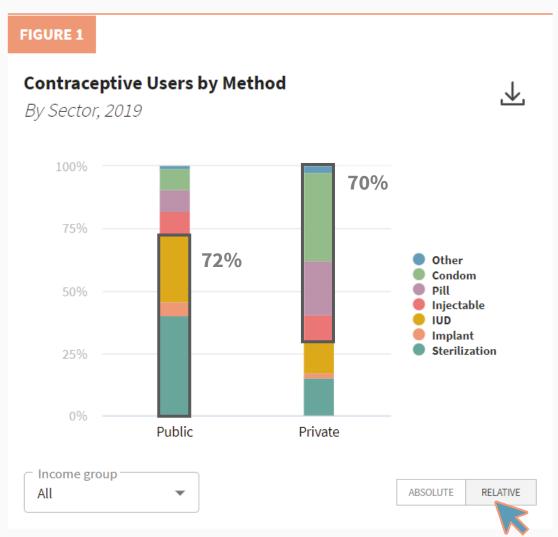
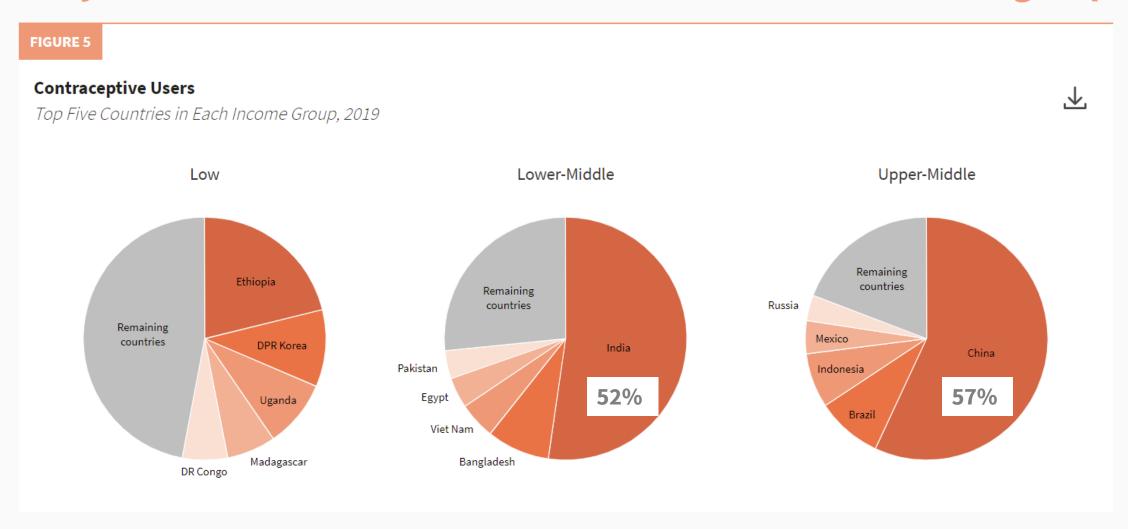




FIGURE 3 Share of Contraceptive Users by Sector By Income Group, 2019 Low Upper-Middle Lower-Middle 100% 80% Share by Sector Private: Non-subsidized Private: Subsidized Public 0% 20% 40% 60% 80% Share by Income Group Method

- Most contraceptive users (58%) live in upper-middle-income countries; followed by lower-middle-income (36%) and low-income (5%) countries.
- In all income groups, the majority of users get their method from the public sector; but its role diminishes.

In lower-middle-income and upper-middle-income countries, a single country accounts for more than half of the users in that income group.



\$3.87 billion on contraceptive supplies.

The vast majority is from users purchasing pills from private sector providers.





Costs are highly concentrated in upper-middle-income countries.



Cost is not simply a function of use:

- Greater use of private sector
- Method mix differences
- Relatively higher cost of methods

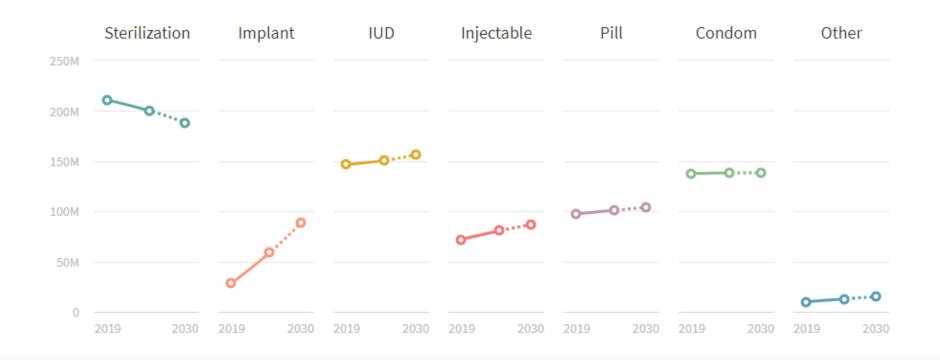
If current patterns continue, implants would see the most rapid increase in both absolute (+60.2 million) and relative (+213%) terms.

FIGURE 14

Change in Contraceptive Users

By Method, 2019-2030





If current patterns continue, low-income countries would see the fastest increase in relative terms (+78%), while lower-middle-income countries would see the largest increase in absolute terms (+236 million).



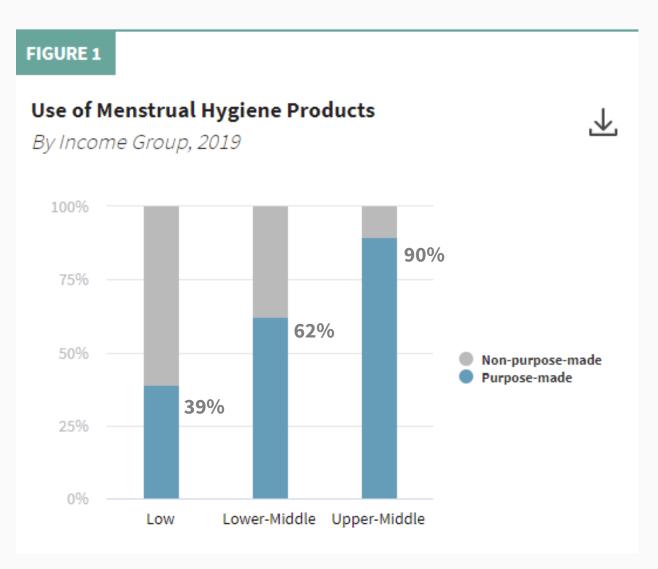
Contraception Menstrual Hygiene Abortion & PAC Maternal Health



Currently there are an estimated 1.67 billion menstruators across low- and middle-income countries.

For this analysis, purpose-made menstrual hygiene products include:

- Disposable pads
- Disposable tampons
- Reusable pads and underwear
- Reusable cups

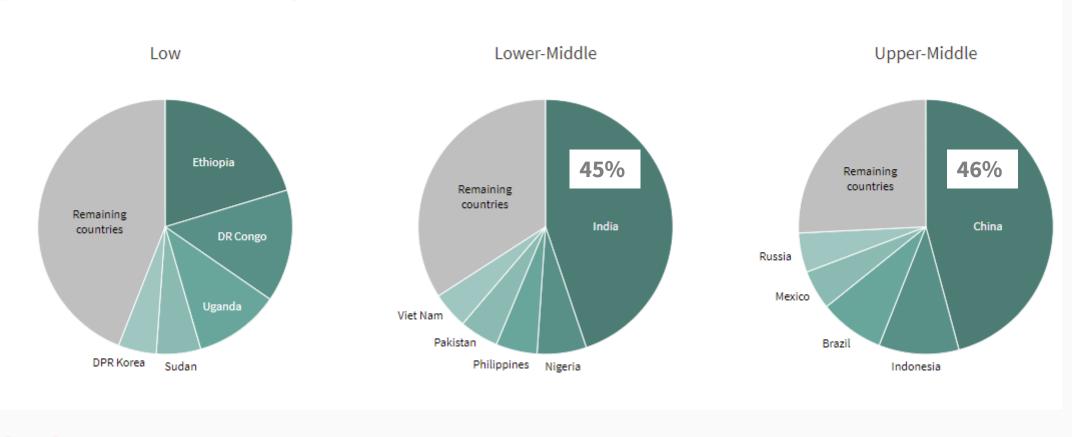


India and China make up a large share of purpose-made menstrual hygiene product use.

FIGURE 2

Use of Purpose-Made Menstrual Hygiene Products

Top Five Countries in Each Income Group, 2019



The costs of purpose-made products are primarily for disposable products, with highest costs in upper-middle income countries.



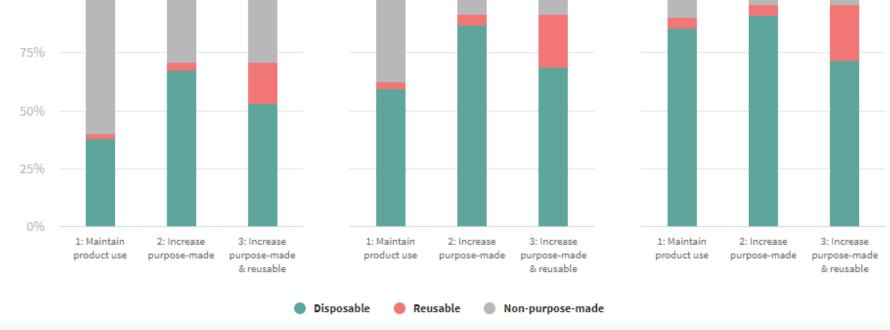
- Based on the little data available on reusable products, we assume 5% of purpose-made product use is for reusable products.
- Annual costs are lower for reusable products, resulting in current estimates of ~2% of total costs for reusable products and 98% for disposable.

In generating projections to 2030, we looked at three potential scenarios:

- 1. Maintain product use: No changes in the proportion of purpose-made product use; changes in demographic, contraceptive use, and fertility rates.
- 2. Increase purpose-made use: Increase in access and use to purpose-made products within a region; where low-income achieves lower-middle income use rates by 2030 and lower-income achieves upper-middle income use. Upper-middle income countries make modest gains.
- 3. Increase purpose-made and reusable use: Same increases as specified above, but with a shift towards reusable products where 25% of menstruators are using reusables by 2030.

The proportion of menstruators using purpose-made products in 2030 increases in scenarios 2 and 3, particularly for low-income countries.







Shifting to 25% reusables by 2030 ameliorates the increase in the number of disposables needed when increasing purpose-made use.

FIGURE 8

2 000M

1500M

1000M

500M

2019

2025

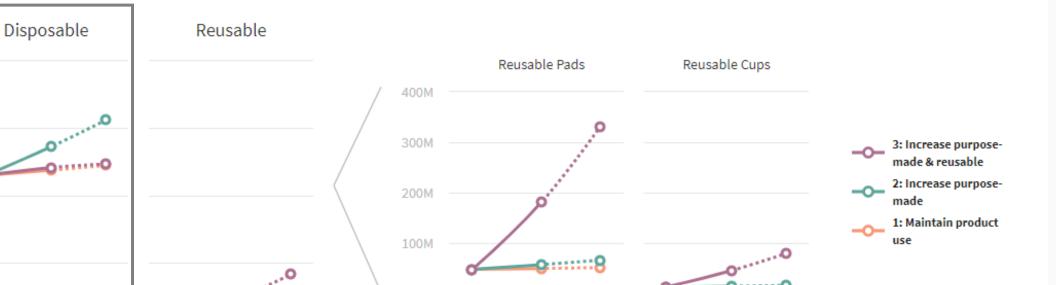
2030

2019

2030

Change in Menstruators Using Purpose-Made Menstrual Hygiene Products

By Future Scenario and Product Type, 2019-2030



2025

2030

2019

2025

2019



Total costs increase substantially in Scenario 2

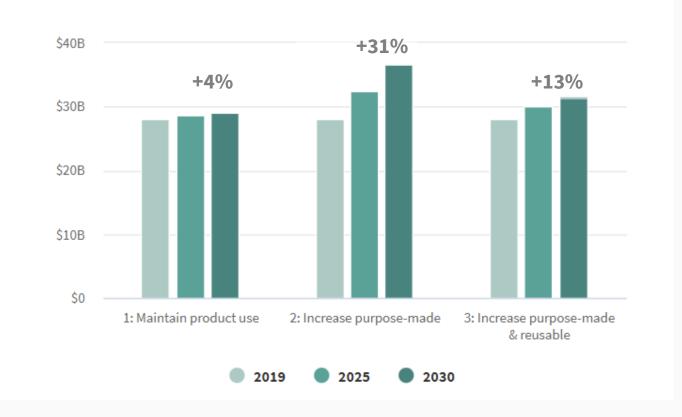
Scenario 3 recovers some
 of the increase in costs due
 to the shift to the lower
 cost reusable products

FIGURE 9

Change in Cost of Purpose-Made Menstrual Hygiene Products



By Future Scenario, 2019-2030



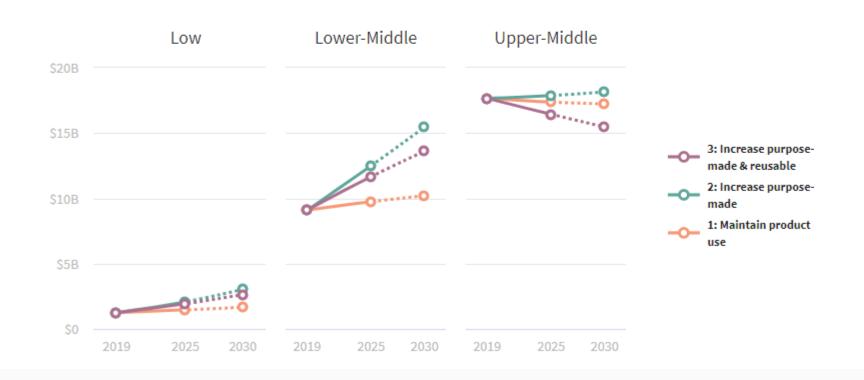
Largest cost increases projected for lower-middle income countries. Decreased costs projected for upper-middle income countries under scenarios 1 & 3.

FIGURE 10

Change in Cost of Purpose-Made Menstrual Hygiene Products

By Future Scenario and Income Group, 2019-2030





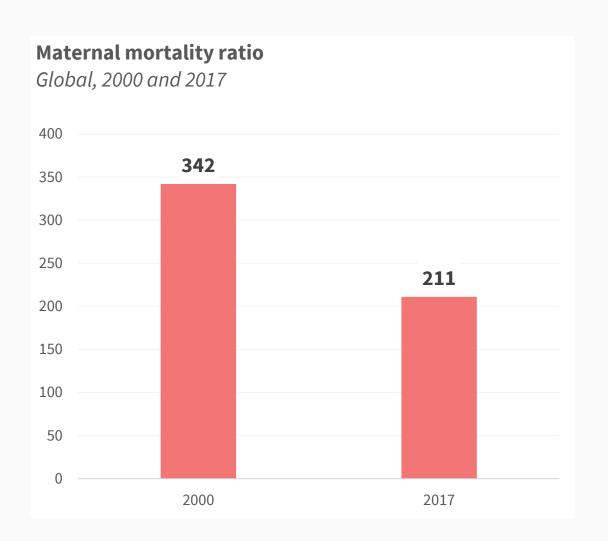
Contraception Menstrual Hygiene Abortion &

Maternal Health



Despite gains, maternal mortality remains high

- In 2017, the global Maternal Mortality Ratio (MMR) was 211 maternal deaths per 100,000 live births.
- Sustainable Development Goal (SGD)
 3.1 sets the target of reducing global MMR to less than 70 per 100,000 live births by 2030.



This analysis focuses on priority maternal health drugs to reduce maternal mortality

Drug	Interventions included		
Seven Priority Maternal Health Drugs			
Iron and folic acid (IFA)	Iron and folic acid supplementation during pregnancy		
Hydralazine (antihypertensive)	Acute hypertension event management		
Methyldopa (antihypertensive)	Acute, chronic and gestational hypertension management		
Magnesium Sulfate	Pre-eclampsia and eclampsia treatment		
Oxytocin (uterotonic)	Induction, augmentation, postpartum hemorrhage (PPH) prevention and treatment		
Misoprostol (uterotonic)	Induction, PPH prevention and treatment		
Metronidazole (MTN)	Infection treatment		
Two Emerging drugs			
Heat-stable carbetocin (HSC) (uterotonic)	PPH prevention		
Tranexamic acid (TXA)	PPH treatment		



There is variation in the number of cases requiring and receiving each drug.

TABLE 3

Total Cases Needing and Receiving Seven Priority Maternal Health Drugs

By Income Group, 2019

	Iron-folic acid	Antihypertensives	Magnesium sulfate	Uterotonics	Metronidazole
Low	3,560,000	115,000	143,000	8,610,000	515,000
Lower-Middle	23,500,000	469,000	646,000	35,600,000	2,350,000
Upper-Middle	18,500,000	543,000	776,000	35,500,000	2,050,000
Total	45,600,000	1,130,000	1,570,000	79,800,000	4,910,000

In generating projections to 2030, we looked at three potential scenarios:

- 1. Maintain coverage: This scenario accounts for changes in the number of pregnancies and births and maintains current levels of intervention coverage. Provides a baseline for comparison.
- 2. Increase coverage: This scenario accounts for the same changes in the number of pregnancies and births as in Scenario 1 but increases coverage of included interventions.
- 3. Increase coverage and scale-up emerging drugs: This scenario is the same as Scenario 2 but incorporates scale up of heat-stable carbetocin and tranexamic acid.

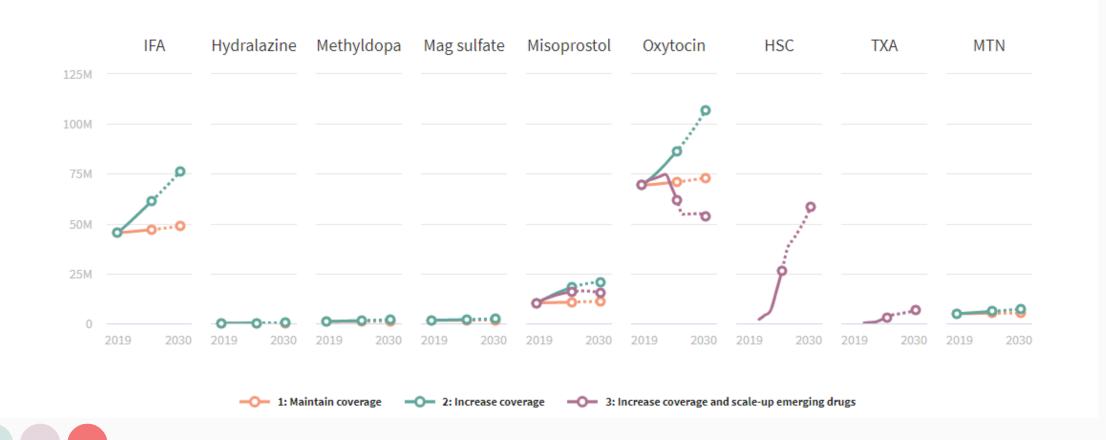
Changes in the number of cases that require and receive each drug will vary; oxytocin would see the largest increase under scenario 2, however this would be more than offset by the scale up of heat-stable carbetocin under scenario 3.

FIGURE 8

Change in Cases that Receive Seven Priority Maternal Health Drugs Plus Two Emerging Drugs

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By Future Scenario and Drug, 2019-2030

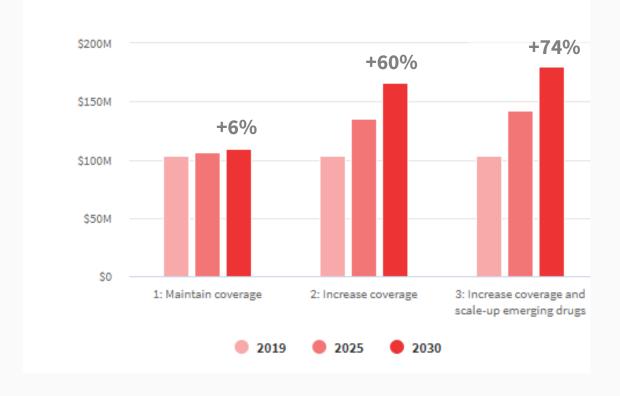


- Limited cost increases seen in Scenario 1, due to increasing numbers of pregnancies and births.
- Substantial cost increase (+60%) associated with the coverage increases seen in Scenario 2.
- The inclusion of emerging drugs increases costs by an additional 14 million, a 74% increase from 2019.

FIGURE 9

Change in Cost of Seven Priority Maternal Health Drugs Plus Two Emerging Drugs

By Future Scenario, 2019-2030



Largest absolute cost increase would be in lower-middle-income countries due to coverage expansion and numbers of pregnancies and births.

FIGURE 10

Change in Cost of Seven Priority Maternal Health Drugs Plus Two Emerging Drugs

By Future Scenario and Income Group, 2019-2030



Contraception

Menstrual Hygiene

Abortion & PAC

Maternal Health



LEAP costed services:

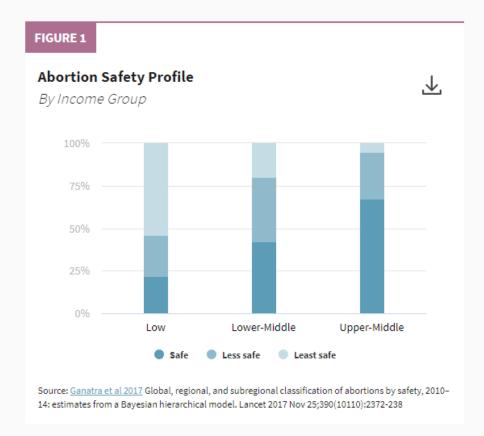
- Safe & least safe abortions using:
 - Medical misoprostol with or without mifepristone
 - Surgical vacuum aspiration (manual or electric)
- Post-abortion care (PAC) services using:
 - Medical misoprostol only
 - Surgical vacuum aspiration (manual or electric)

Services not costed in LEAP:

- Least safe abortions
- Surgical services using dilation & curettage, dilation & evacuation

WHO classifies abortions into 3 categories:

- Safe
- Less safe
- Least safe



In 2019 there were 72.5 million abortion & PAC services across low-and middle-income countries.

- Including all safety types and methods
- Broadly reflects distribution of women of reproductive age across income groups
- The vast majority (81%) are abortion services; with some variation by income group.



There is variation in the types of methods used across income groups.

- Share of 'costed' services increases across each income group
- Least safe abortions account for 30% of services in low-income countries but only 5% in upper-middle-income
- Medical methods make up the largest share of services in all income groups

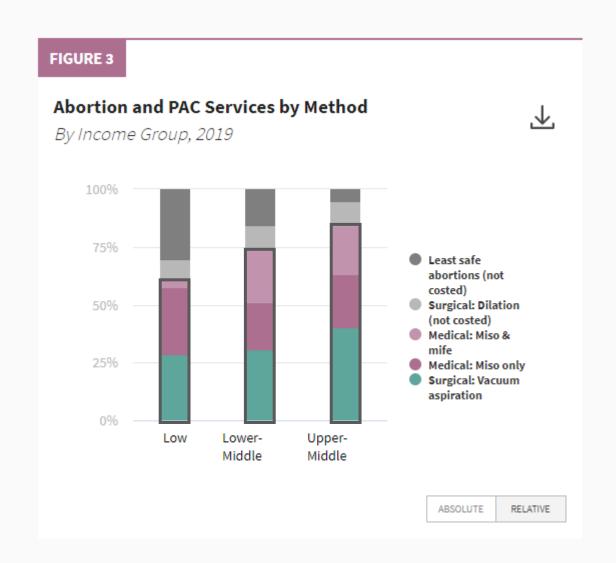




FIGURE 4 Cost of Abortion and PAC Supplies by Method By Income Group, 2019 \$150M \$100M Medical: Mife Medical: Miso Surgical: Vacuum \$50M aspiration \$0 Low Lower-Upper-Middle Middle ABSOLUTE RELATIVE

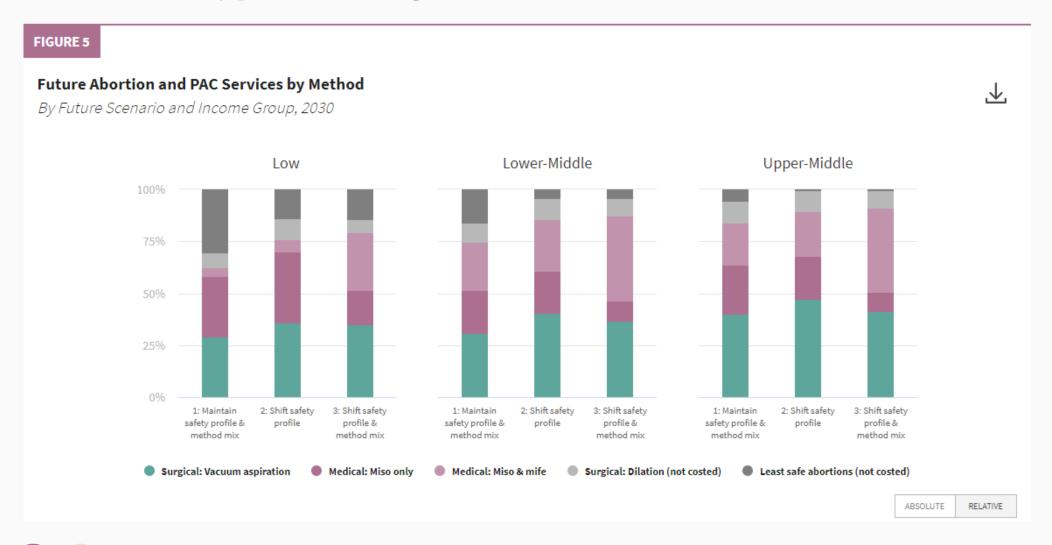
\$226 million in supply costs primarily driven by cost of misoprostol

- Medical methods account for 90% or more of total supply costs.
- Vacuum aspiration only includes cost of MVA kit.
- Wide regional variation in price of misoprostol, if all misoprostol were to cost \$0.16 (median for Asia) total cost of supplies would decrease by 43%.

In generating projections to 2030, we looked at three potential scenarios:

- 1. Maintain safety profile & method mix: No changes to the distribution of the safety profile of abortion services or mix of surgical and medical methods
- 2. Shift safety profile: Improves the safety profile of services by matching the proportion of abortion services that are safe/less safe/least safe to the average pattern seen in the next highest income group
- 3. Shift safety profile & method mix: Includes safety improvements from Scenario 2, as well as a shift to greater use of medical (especially combined use of misoprostol and mifepristone) rather than surgical methods among safe and less safe abortions

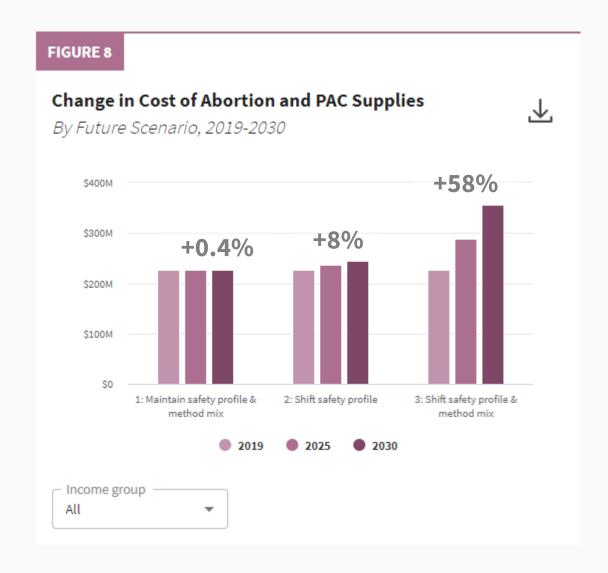
The share of services that are least safe abortions in 2030 decreases in scenarios 2 and 3, particularly for low-income countries.



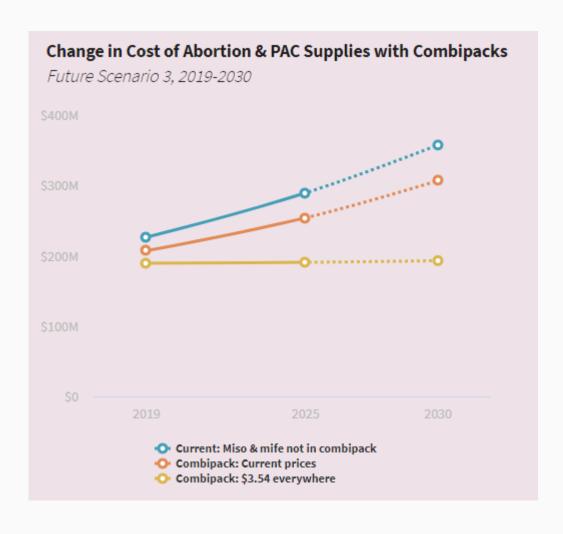
The total number of abortion & PAC services will remain relatively similar across all low-and-middle-income countries; however, the number of costed services and the methods used would change greatly under scenarios 2 & 3.



- Shifts in safety and method mix (Scenario 3) could lead to higher costs, without decreases in the price of mifepristone.
- Future improvements in availability and competition could mitigate costs of mifepristone.



Co-packaged misoprostol and mifepristone in "combipacks" have the potential to reduce costs.



- As demand for mifepristone and combipacks increase, prices are likely to decline.
- If \$3.54 combipacks were available everywhere the 2030 supply cost for services using misoprostol and mifepristone would be cut in half.

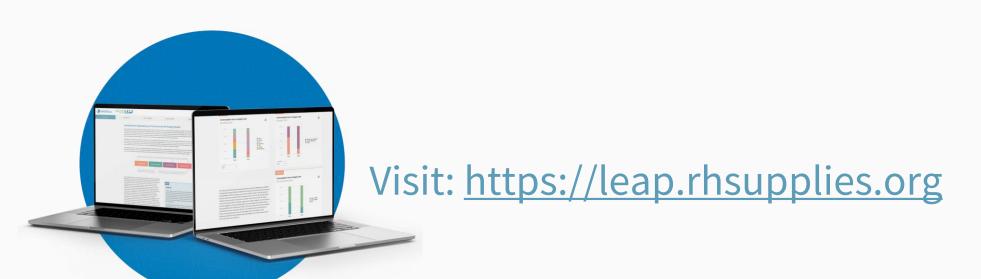
Contraception

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Explore the full landscapes online for each health area for more detailed results and to interact with the data.



Custom Reports feature coming soon, allowing users to explore country and regional results



Landscape for a single country or region



Compare across countries or regions



Deep dive into a single supply or drug



Question & Answer



Please put your questions

& comments in the chat.



LANDSCAPE & PROJECTION OF REPRODUCTIVE HEALTH SUPPLY NEEDS



For more information contact: leap@rhsupplies.org

