



UPDATE ON PROGRESS OF MPP SUBLICENSEES

(till December 2020)





This presentation showcases the progress made by MPP licensees (generic pharmaceutical companies).



To date, MPP has signed agreements with ten patent holders for 13 HIV antiretrovirals, three hepatitis C direct-acting antivirals, one tuberculosis treatment and one HIV technology platform.



Licensed products are developed by multiple MPP licensees, with an aim of encouraging competition, reducing market prices and providing faster access to medicines for people living with HIV, hepatitis C (HCV) and tuberculosis (TB) in low- and middle-income countries (LMICs).



Generic medicines are developed and filed with stringent regulatory authorities such as the U.S. Food and Drug Administration (USFDA) and the World Health Organization prequalification (WHO-PQ), ensuring availability of quality assured products in LMICs.



This presentation gives a snapshot of the development of each licensed product and when the product may be filed with regulators. It also shows which countries the local filing is taking place in and when – thereby providing a clearer picture of availability of new formulations in each country.



PARTNERSHIPS WITH INNOVATORS

















lopinavir ritonavir (adults) lopinavir ritonavir (paediatrics)

nevirapine (non-assert)

atazanavir

bictegravir cobicistat elvitegravir emtricitabine tenofovir alafenamide tenofivir disoproxil

darunavir (paediatric nonassert)

raltegravir (paediatric)

darunavir related

valganciclovir (pricing agreement)



Solid drug

nanoparticles

technology



abacavir (paediatrics) dolutegravir (paediatrics) dolutegravir (adults)



glecaprevir/

pibrentasvir



daclatasvir







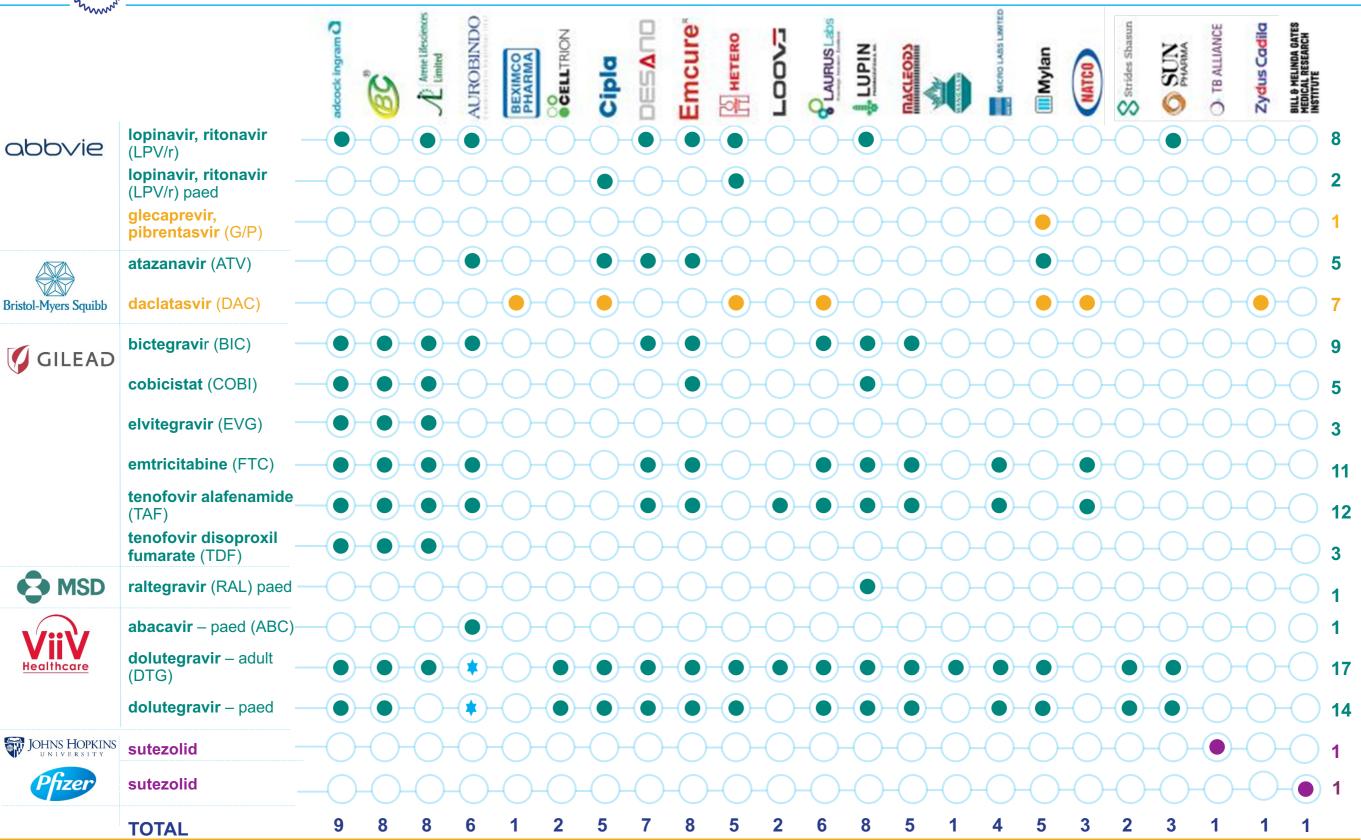


ravidasvir

sutezolid



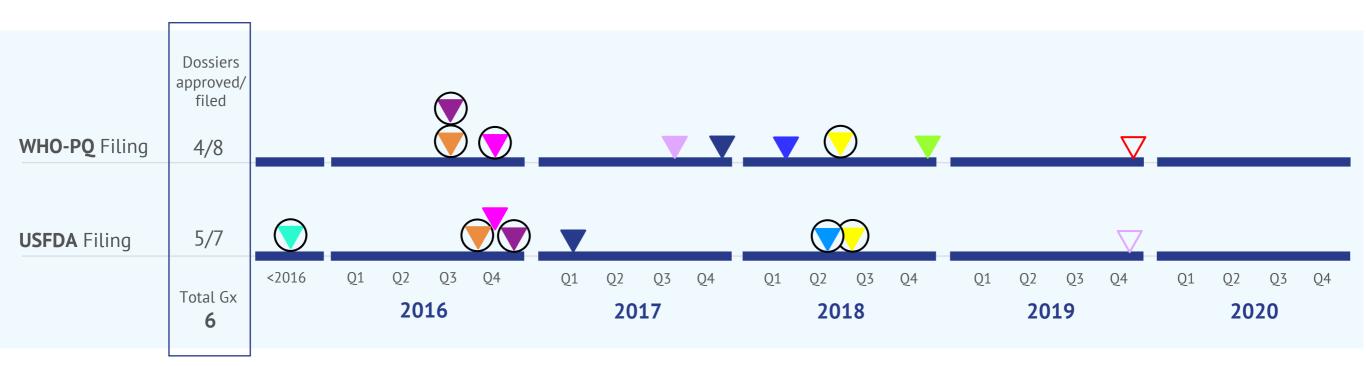
SNAPSHOT OF MPP SUBLICENCES



101 SUBLICENCES WITH 23 SUBLICENSEES – 155 ACTIVE PROJECTS

TRIANGLE CHARTS: A SNAPSHOT

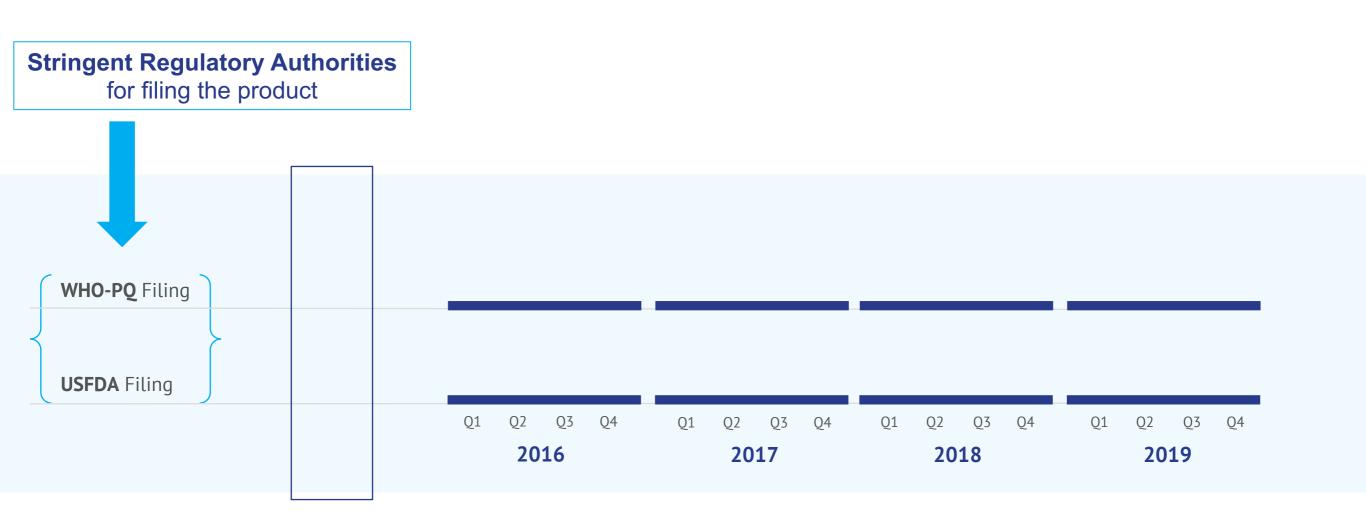
Triangle charts represent a comparative analysis of each MPP licensee's filings with WHO-PQ and/or USFDA for each product country



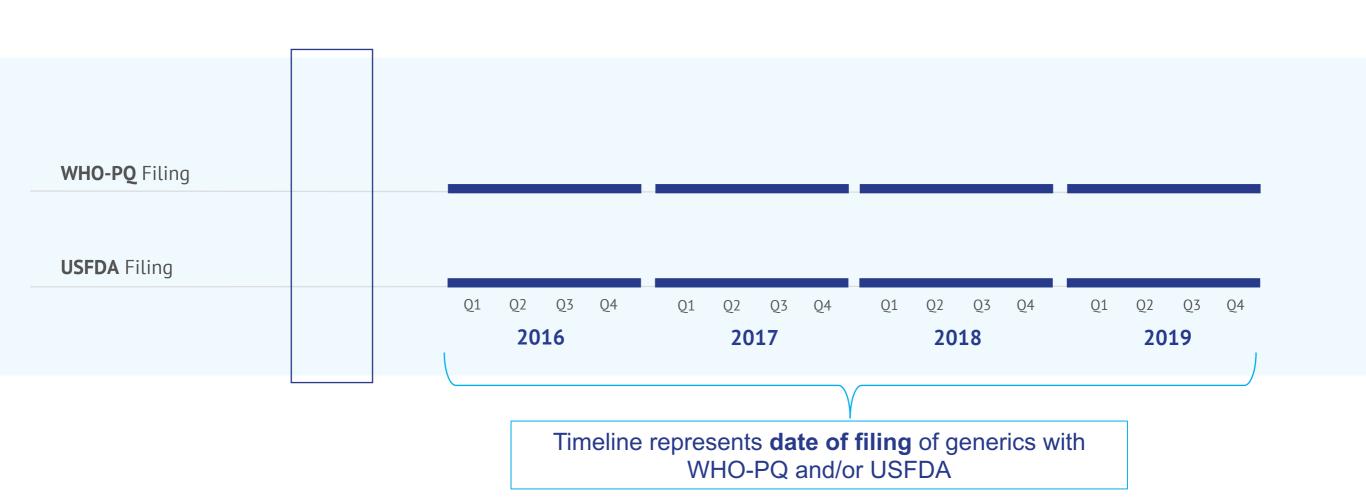


See following slides for explanation

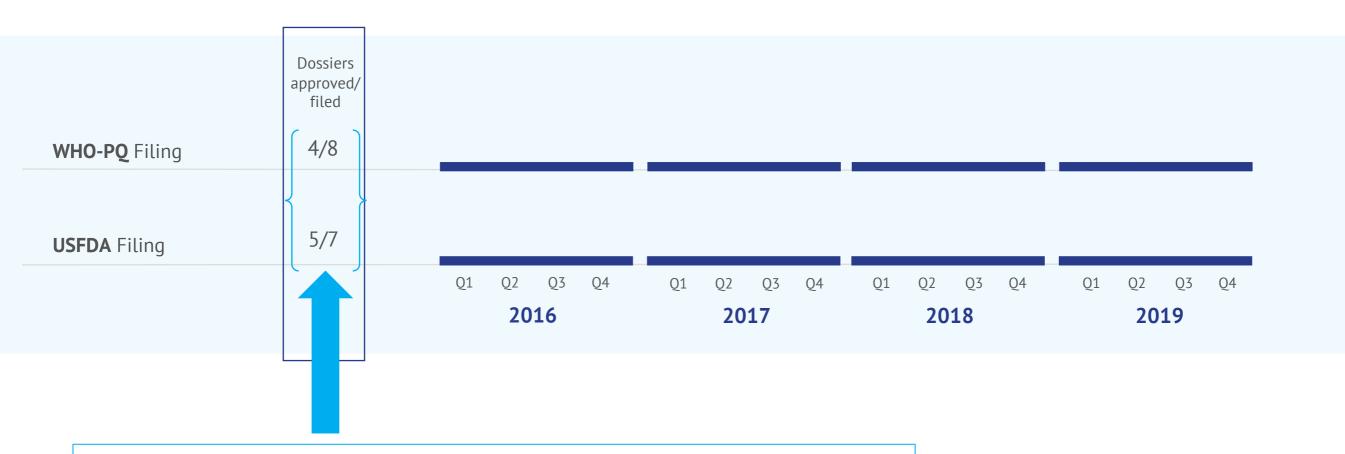
TRIANGLE CHARTS EXPLAINED (1/7)



TRIANGLE CHARTS EXPLAINED (2/7)



TRIANGLE CHARTS EXPLAINED (3/7)



No. of companies that have **received approval out of total companies filed** with WHO-PQ/USFDA

TRIANGLE CHARTS EXPLAINED (4/7)



Total no. of **companies** that **have been approved by** WHO-PQ/USFDA

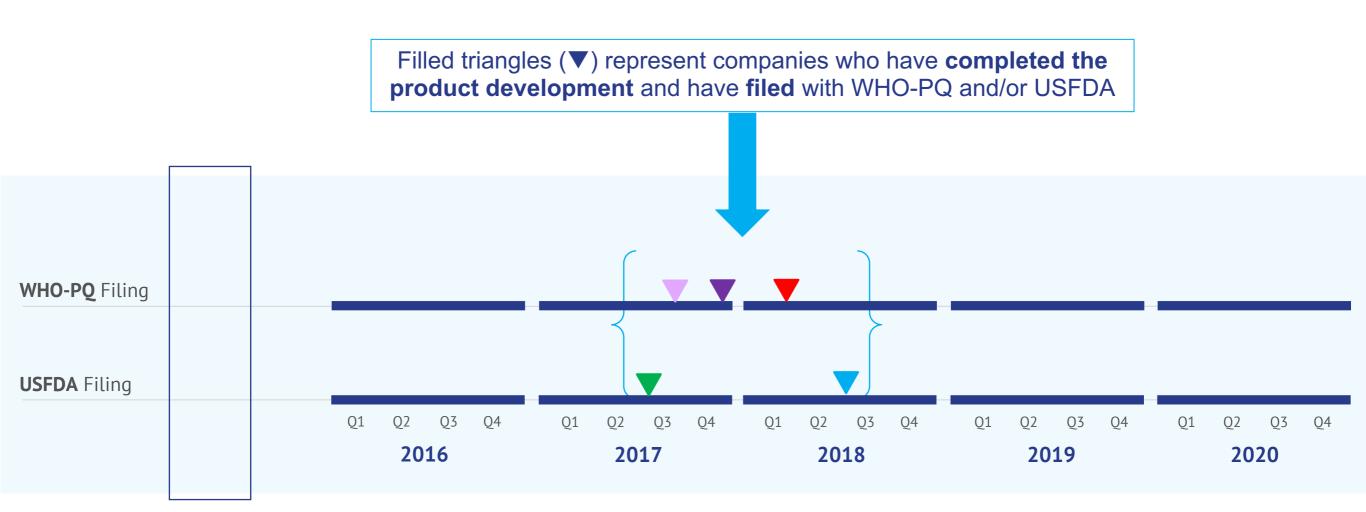
TRIANGLE CHARTS EXPLAINED (5/7)



Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

TRIANGLE CHARTS EXPLAINED (6/7)



Companies filed

Note: Each triangle represents a manufacturer and timelines represent date of filing

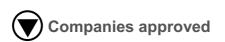
TRIANGLE CHARTS EXPLAINED (7/7)

2019

2020

Circled triangles represent companies who have completed the product development and have received approvals from WHO-PQ and/or USFDA WHO-PQ Filing **USFDA** Filing Q2 Q3 Q2 Q1 Q2 Q4 Q1 Q2 Q3 Q2 Q3 Q3 Q3

2017



2016

Note: Each triangle represents a manufacturer and timelines represent date of filing

2018



DOLUTEGRAVIR







10 MPP LICENSEES HAVE DEVELOPED DTG 50MG, OF WHICH: 9 COMPANIES ARE READY TO SUPPLY THE PRODUCT

Licensees Approved*: Aurobindo, Cipla, Desano, Emcure, Hetero, Laurus, Micro Labs, Mylan, Sun Pharma

3 licensees awaiting USFDA approvals

2 additional licensees developing and plan to file in H2-21 with WHO and USFDA



Generic DTG 50mg has been filed in 62 countries, of which approval has been received in 44 countries Filings have occurred where 91.3% of PLHIV reside in the licensed territory #

APPROVED (44) 86.2% PLHIV				
Anguilla	Dominica	Montserrat	St. Lucia	
Antigua and Barbuda*	Ethiopia	Mozambique	St. Vincent & the Grenadines	
Bahamas*	Ghana	Myanmar	Tajikistan	
Barbados*	Grenada	Namibia	Tanzania	
Botswana	Guatemala	Nicaragua	Thailand	
Cambodia	India	Niger	Turks and Caicos*	
Chile*	Indonesia	Nigeria	Uganda	
Congo, Dem. Rep.	Iran, Islamic Rep.	Peru	Ukraine	
Congo, Rep.	Kenya	Philippines	Uzbekistan	
Costa Rica	Malawi	Rwanda	Zambia	
Côte d'Ivoire	Mauritius	South Africa	Zimbabwe	

FILED (18) 5.1% PLHIV		
Benin	Jamaica	
Bolivia	Kyrgyzstan	
Burkina Faso	Lebanon	
Burundi	Mali	
Cameroon	Pakistan	
Dominican Republic	Senegal	
El Salvador	Sri Lanka	
Gabon	Vietnam	
Guyana		
Honduras		

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

New filings and approvals in green vis-à-vis last update (Q3-20)

Countries where DTG has been sold indicated in **bold type**

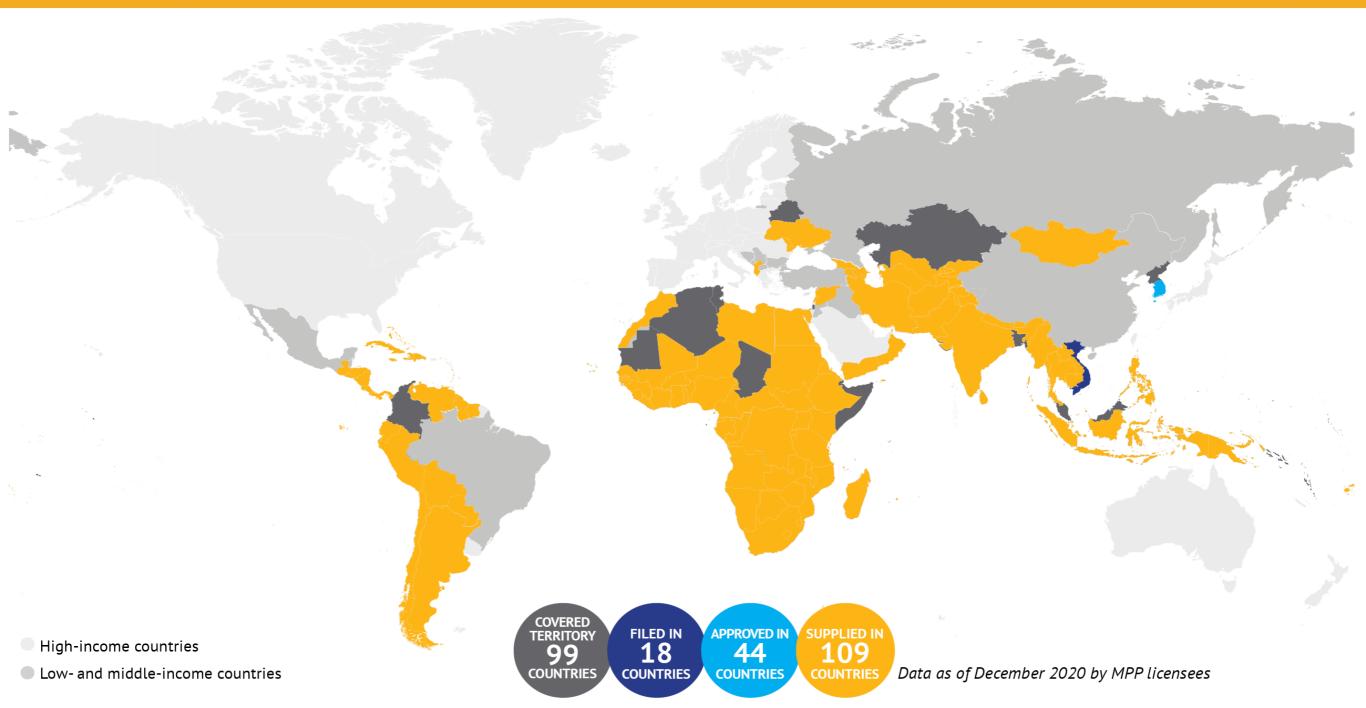
^{*} Countries not included in DTG Adult licence but supply by MPP licensees permitted if no patent is being infringed in that country

[^] People living with HIV

[#] MPP-ViiV DTG licence agreement



DTG 50mg sales have occurred in 109 countries in which 98.6% of PLHIV reside in the licensed territory#



Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions









13 MPP LICENSEES HAVE DEVELOPED TDF/3TC/DTG, OF WHICH: 11 COMPANIES ARE READY TO SUPPLY THE PRODUCT

Licensees Approved*: Aurobindo, Celltrion, Cipla, Desano, Emcure, Hetero, Laurus, Macleods, Mylan, Strides, Sun Pharma

4 licensees awaiting WHO-PQ approvals | 4 licensees awaiting USFDA approvals

1 additional licensee developing and plans to file with WHO in Q2-21



Generic TDF/3TC/DTG has been filed in 65 countries, of which approval is received in 47 countries Filings have occurred where 92.3% of PLHIV reside in the licensed territory #

APPROVED (47) 88.7% PLHIV				
Anguilla	Congo, Rep.	Malawi	South Africa	
Antigua & Barbuda*	Côte d'Ivoire	Mali	Tanzania	
Bahamas*	Dominica	Mauritania	Thailand	
Barbados*	Ethiopia	Mauritius	Turkmenistan	
Benin	Gabon	Montserrat	Turks and Caicos Islands*	
Botswana	Ghana	Mozambique	Uganda	
Burkina Faso	Grenada	Namibia	Ukraine	
Cambodia	India	Nigeria	Uzbekistan	
Cameroon	Indonesia	Philippines	Vietnam	
Chad	Kenya	Rwanda	Zambia	
Chile*	Kyrgyzstan	St. Lucia	Zimbabwe	
Congo, Dem. Rep.	Madagascar	St. Vincent and the Grenadines		

FILED (18) 3.6% PLHIV		
Bolivia	Myanmar	
Burundi	Nicaragua	
Dominican Republic	Niger	
El Salvador	Pakistan	
Gambia	Peru	
Guatemala	Senegal	
Jamaica	Sierra Leone	
Kazakhstan	Sudan	
Lebanon	Тодо	

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

New filings and approvals in green vis-à-vis last update (Q3-20)

Countries where DTG has been sold indicated in **bold type**

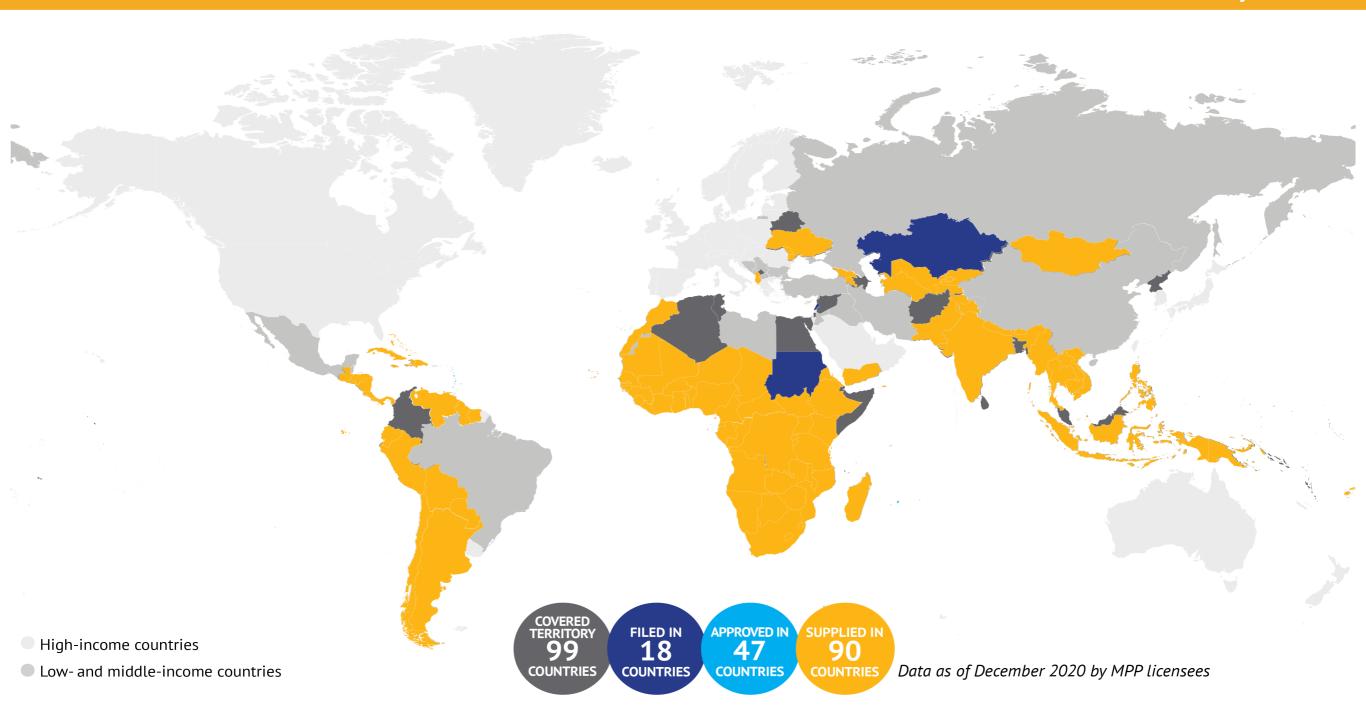
^{*} Countries not included in DTG Adult licence but supply by MPP licensees permitted if no patent is being infringed in that country

[^] People living with HIV

[#] MPP-ViiV DTG licence agreement

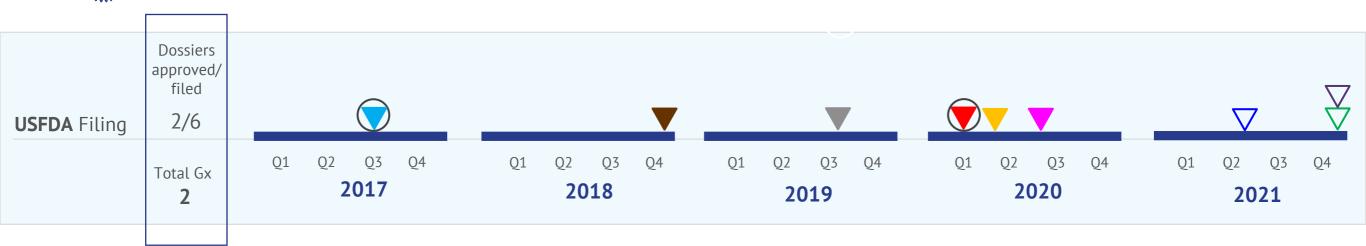


TLD sales have occurred in 90 countries in which 99.2% of PLHIV reside in the licensed territory#



Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions ^ People living with HIV
MPP-ViiV DTG licence agreement

TAF/FTC/DTG (TAF-ED) (TENOFOVIR ALAFENAMIDE / EMTRICITABINE / DOLUTEGRAVIR)





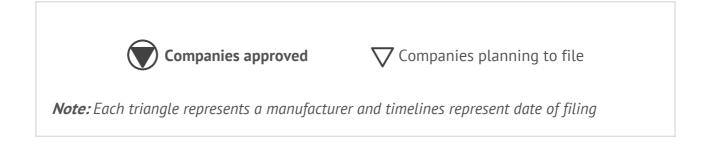
6 MPP LICENSEES HAVE DEVELOPED TAF/FTC/DTG, OF WHICH: 2 COMPANIES ARE READY TO SUPPLY THE PRODUCT

Licensees Approved*: Laurus, Mylan

4 licensees awaiting USFDA approval | 3 additional licensees developing this product and plan to file in 2021







1 MPP LICENSEE (MYLAN) HAS DEVELOPED TAF/3TC/DTG AND IS READY TO SUPPLY THE PRODUCT

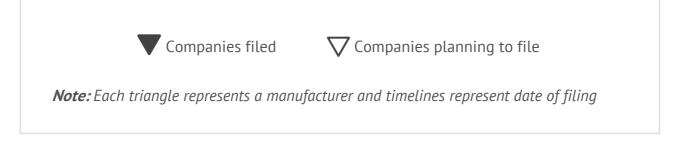
3 additional licensees developing this product and plan to file in 2021



ADDITIONAL FORMULATIONS





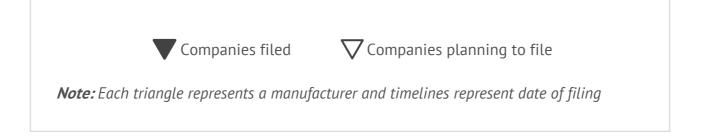


1 MPP LICENSEE HAS DEVELOPED DTG/3TC AND IS AWAITING USFDA APPROVAL

4 additional licensees developing this product | Three plan to file in 2021





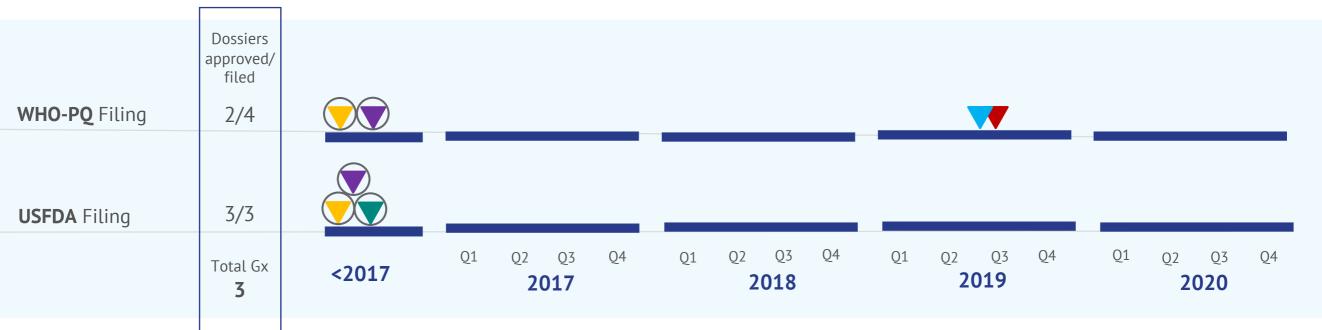


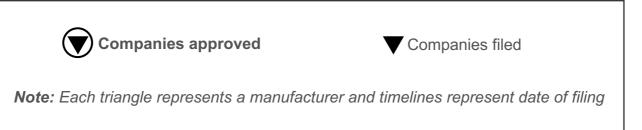
4 MPP LICENSEES HAVE DEVELOPED TAF/FTC COMBINATION AND ARE AWAITING USFDA APPROVAL

4 additional licensees developing this product | Three plan to file in 2021

Note: Gilead has direct licences with additional manufacturers, details of which are not captured here







5 MPP LICENSEES HAVE DEVELOPED ATV/R, OF WHICH, 3 COMPANIES ARE READY TO SUPPLY THE PRODUCT

Licensees Approved*: Cipla, Emcure, Mylan

2 licensees awaiting WHO-PQ approvals

Approved in 30 countries | Filed in additional 25 countries | Filings have occurred where 88.5% of PLHIV^ reside in the licensed territory#



PAEDIATRIC HIV





DTG 10mg scored

(dispersible tablets)

 Two MPP licensees (Mylan and Macleods) have received approval from USFDA and are ready to supply the product

ABC/3TC/DTG

(60/30/5mg dispersible tablets)

 Six MPP licensees are developing this product combination. One plans to file with USFDA and WHO in Q4-21 and four others in 2022

LPV/r

(40/10mg pellets)

 One MPP licensee (Cipla), approved by USFDA has commercialized this product in 46 countries

ABC/3TC/LPV/r

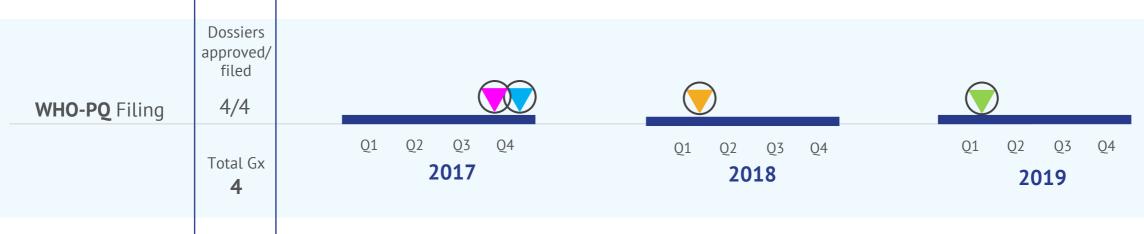
(30/15/40/10mg granules)

 One MPP licensee has developed this 4-in-1 combination and has filed with USFDA



DACLATASVIR





Companies approved

Note: Each triangle represents a manufacturer and timelines represent date of filing

4 MPP LICENSEES HAVE DEVELOPED DAC 30/60 MG AND ALL ARE READY TO SUPPLY

Licensees Approved*: Cipla, Hetero, Laurus, Mylan



Generic DAC has been approved in 34 countries and filed in additional 18 countries Filings have occurred in 52 countries overall where 72.1% PLHCV reside in the licensed territory #

	APPROVED (34) 65.3% PLHCV	
Benin	Guyana	Pakistan
Burkina Faso	India	Philippines
Cambodia	Indonesia	Tanzania
Cameroon	Kazakhstan	Turkmenistan
Chad	Kyrgyzstan	Uganda
Congo, Dem. Rep.	Liberia	Ukraine
Congo, Rep.	Malawi	Uzbekistan
Côte d'Ivoire	Malaysia	Vietnam
Dominican Republic	Mongolia	Zambia
Ethiopia	Myanmar	Zimbabwe
Gabon	Nicaragua	
Ghana	Nigeria	

FILED (18) 6.8% PLHCV			
Azerbaijan	Mozambique		
Bolivia	Namibia		
Botswana	Nepal		
Burundi	Paraguay		
Georgia	Rwanda		
Guatemala	Senegal		
Haiti	Suriname		
Honduras	Thailand		
Kenya	Togo		

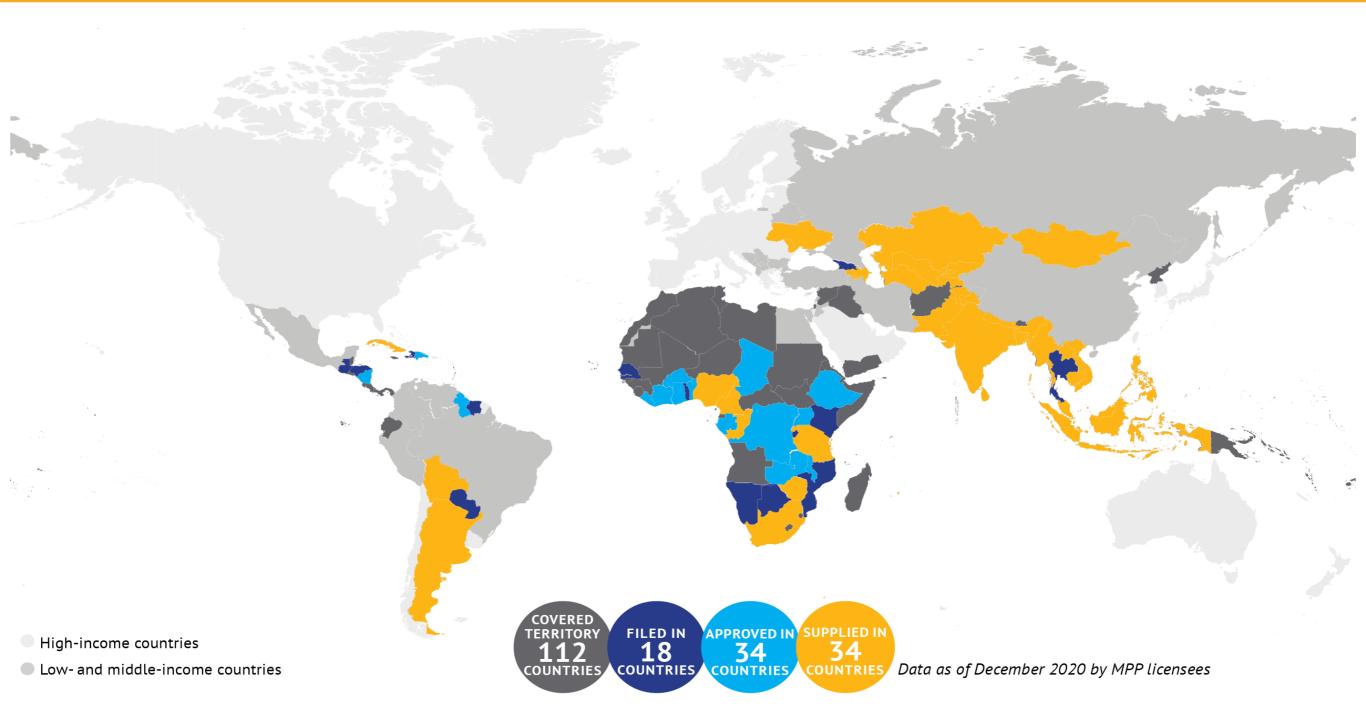
Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

Vis-à-vis last update (Q3-20)
 Countries where DAC 30mg & 60mg has been sold indicated in **bold type**

[#] MPP-BMS DAC licence agreement



MPP licensees have sold more than 1 Million treatments* of generic DAC 30/60mg across 34 countries, in which 65.3% of PLHCV^ reside in the licensed territory#



Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

[^] People living with Hepatitis
MPP-BMS DAC licence agreement







Note: Each triangle represents a manufacturer and timelines represent date of filing

2 MPP LICENSEES HAVE DEVELOPED DAC/SOF AND ONLY MYLAN IS READY TO SUPPLY*

Licensees Approved*: Cipla (co-pack), Mylan

Approved in 10 countries and filed in additional 9 countries | Filings have occurred where 52.2% of PLHCV^ reside in the licensed territory#

*Cipla is not planning to commercialize since there is no demand for the co-pack





MPP's Impact

MPP, through licensing agreements has enabled developing countries to benefit from access to affordable, quality-assured generics.

Our impact is measured by calculating savings from the purchase of medicines developed by our licensees in additional countries where such generics sale was earlier not possible.

IMPACT OF MPP AGREEMENTS THROUGH DECEMBER 2020 (HIV, HCV PRODUCTS)

148 countries

MPP licensees distributing generics

\$1.96 billion

Savings

49.71 million patient-years

Serviced by MPP licensees

348 new instances of countries

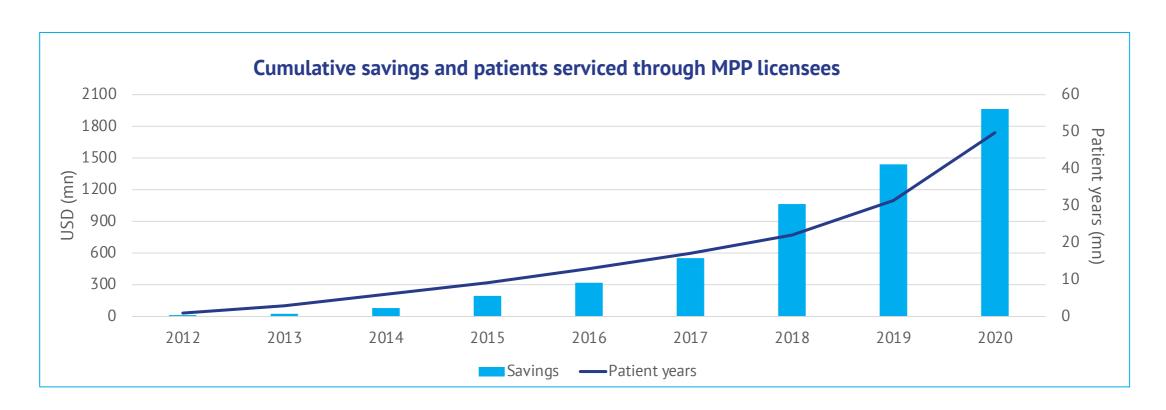
Benefitted from generic competition through MPP agreements

81% average drop

In formulation prices after MPP agreements

ASSUBED

Review and independent assurance of impact by KPMG*



^{*} Available at: https://medicinespatentpool.org/uploads/2021/04/KPMG statement December 2020.pdf



THANK YOU