



Registers and Centralised Reporting

SAHIVCS Conference 2018

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Databases and Quantification

Register-based
Reporting

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PROBLEM



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BACKGROUND



- 3rd line ART
 - Started 2013
 - Defined mandate
 - Centralised (-WC)
 - Algorithm-based decision making
 - DRV; DTG; ETR
 - Captured on an Excel spreadsheet (“3rd line database”)



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BACKGROUND



- DTG: HP13 Supplementary Contract (2017)

HP 13-2017/01: ANTIRETROVIRAL

Item No	Item Description	Quantity Awarded	Sup
7	Darunavir 75mg tablets 480 tablets	200	Phar
8	Darunavir 150mg tablets 240 tablets	800	Phar
10.1	Dolutegravir 50mg tablets 30 tablets	200	Phar
27.1	Ritonavir 100mg	70 000	Abb'



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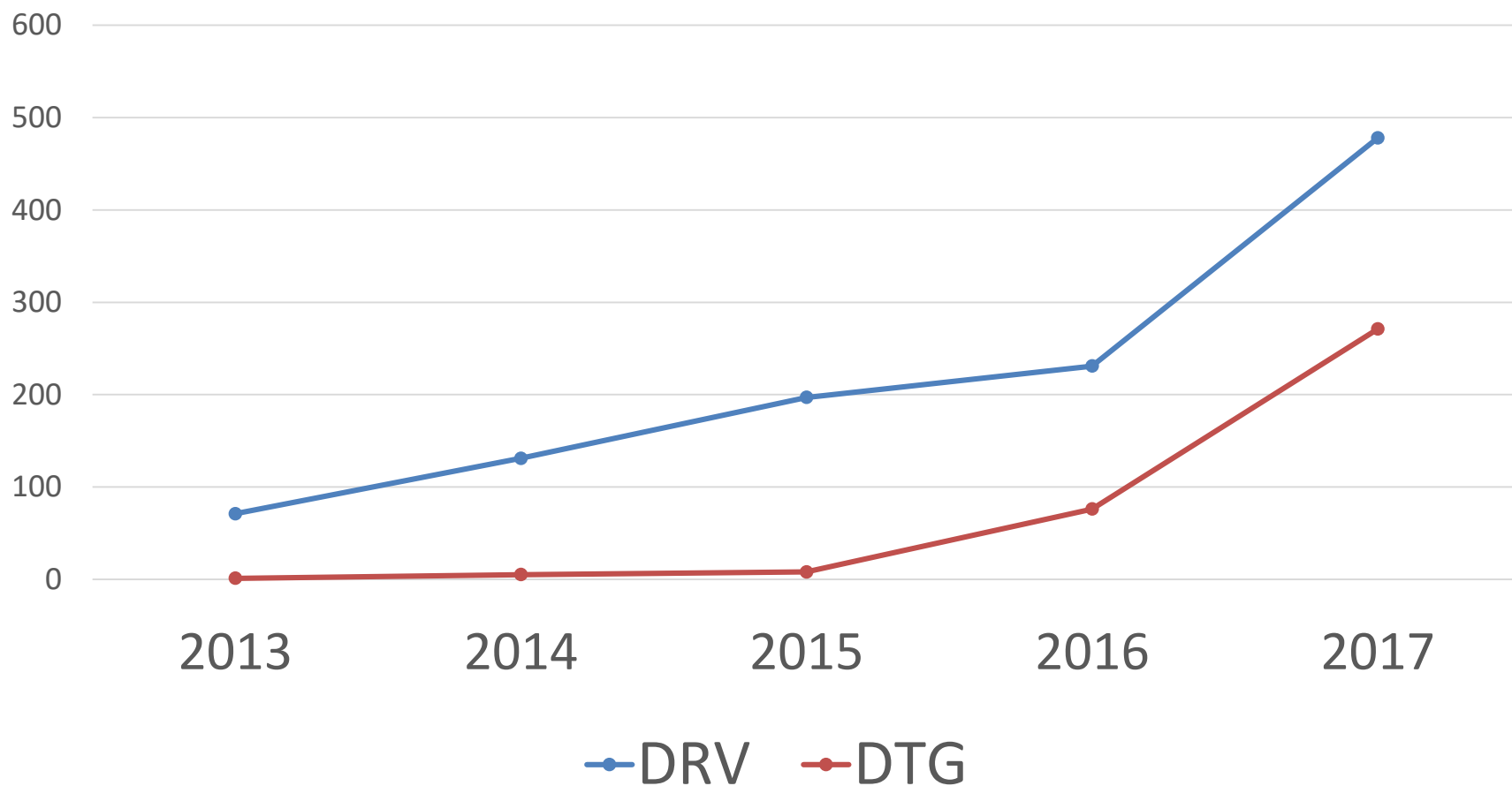
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DATABASES



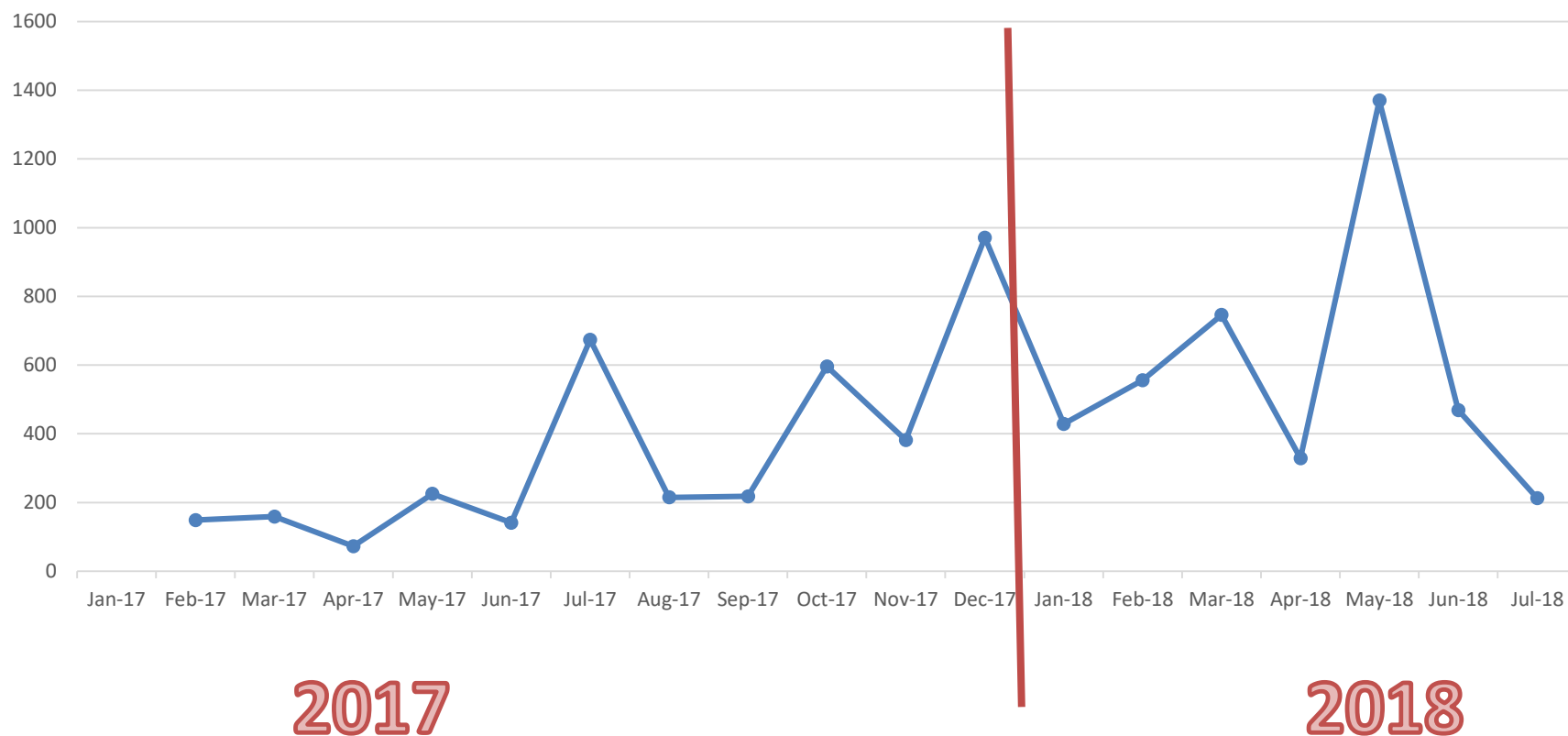
- 3RD line database
 - 1 row = 1 application



PROCUREMENT



Dolutegravir 50mg tablets 30 tablets



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RSA Pharma database



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Patient level data

Drug consumption



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DATABASES



- 3RD line database
 - 1 row = 1 application
 - Non-3rd line mandate DTG use
 - Patient referrals



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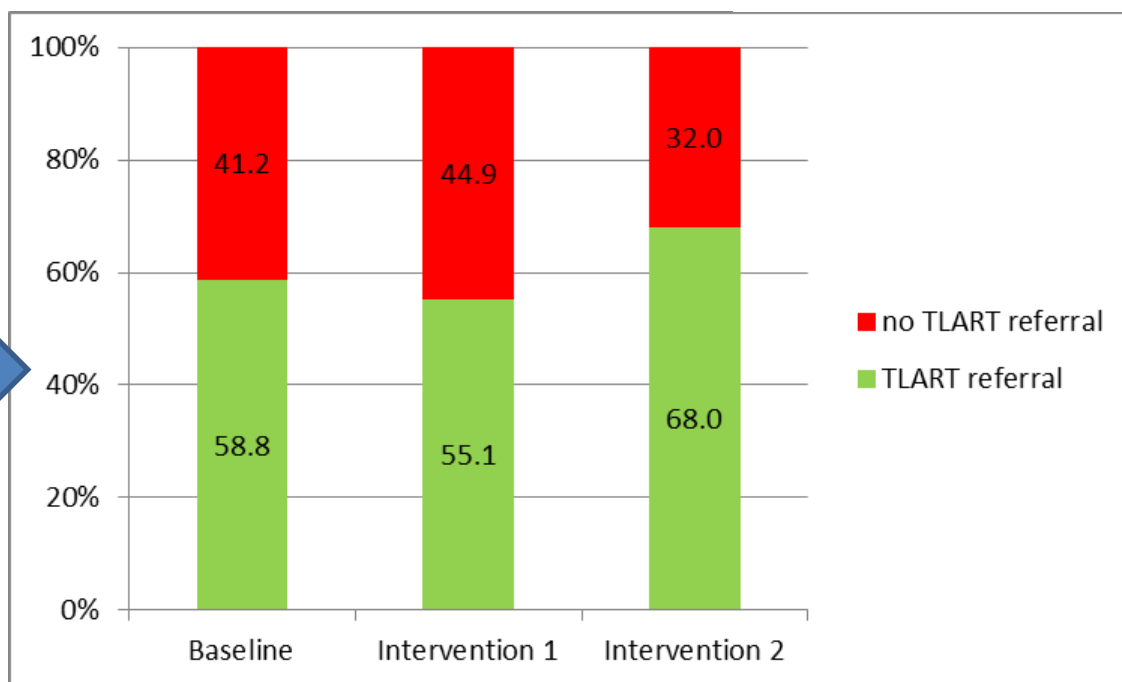
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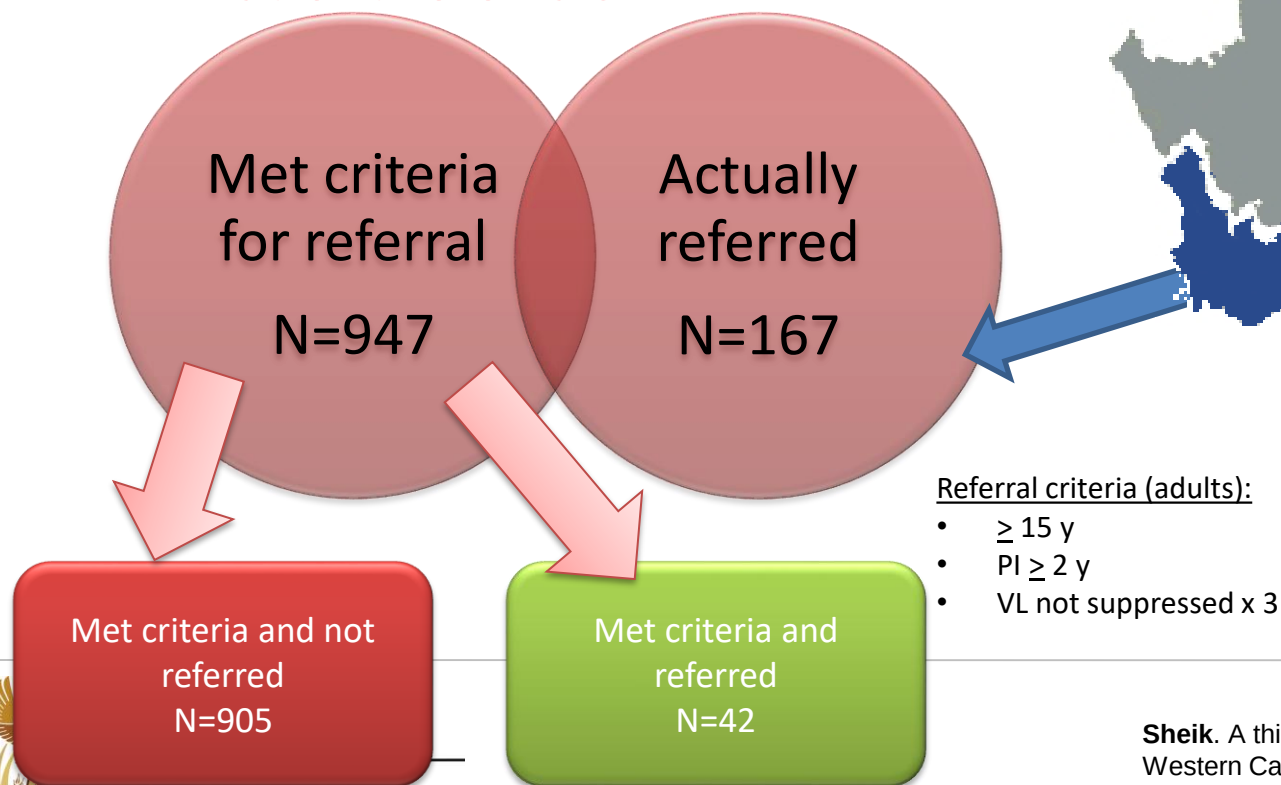
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Steehan. Active engagement between laboratory and clinicians improves linkage to third-line antiretroviral treatment

DATABASES



- 3RD line database
 - 1 row = 1 application
 - Non-3rd line mandate DTG use
 - Patient referrals



Sheik. A third-line ART referral process in the Western Cape Province, South Africa: Estimating qualification and predictors of referral



DATABASES



- RSA Pharma database
 - Contract items
 - Procurement level data
 - Data inputted by suppliers
 - Monthly trends (orders/deliveries)

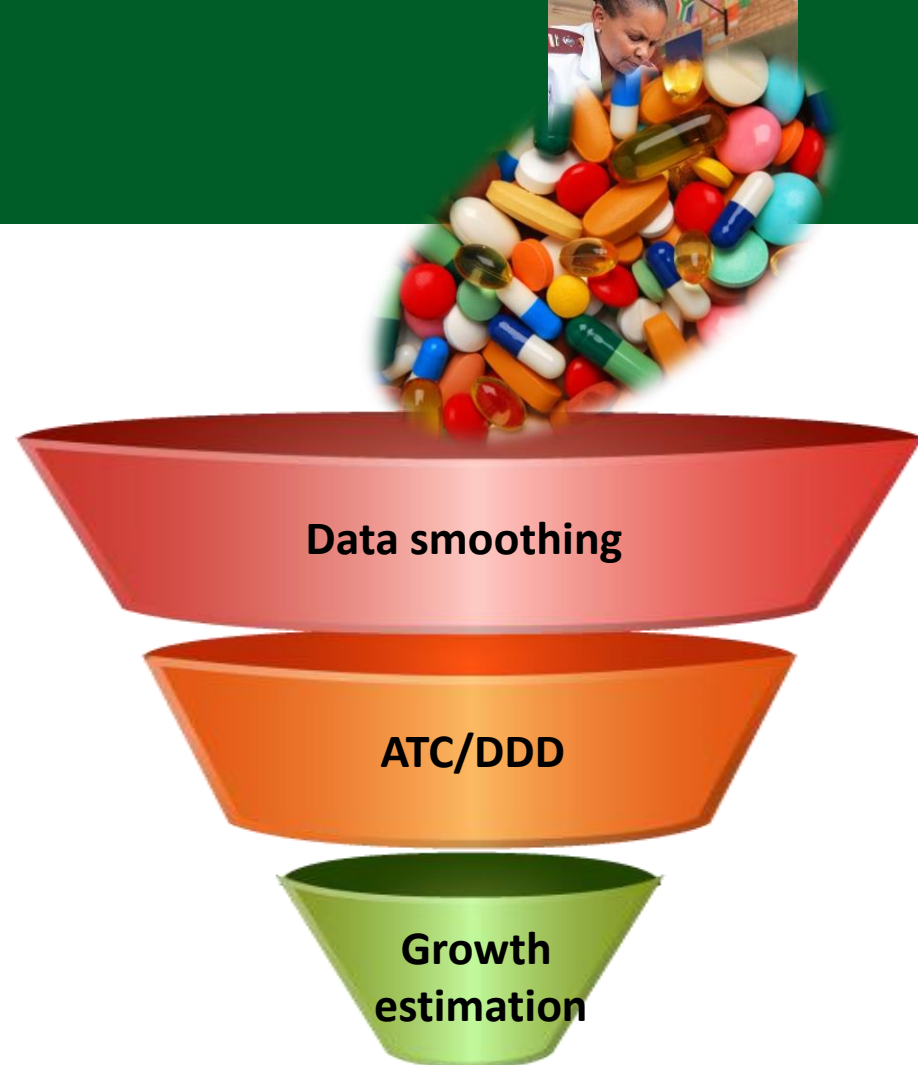


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METHODOLOGY



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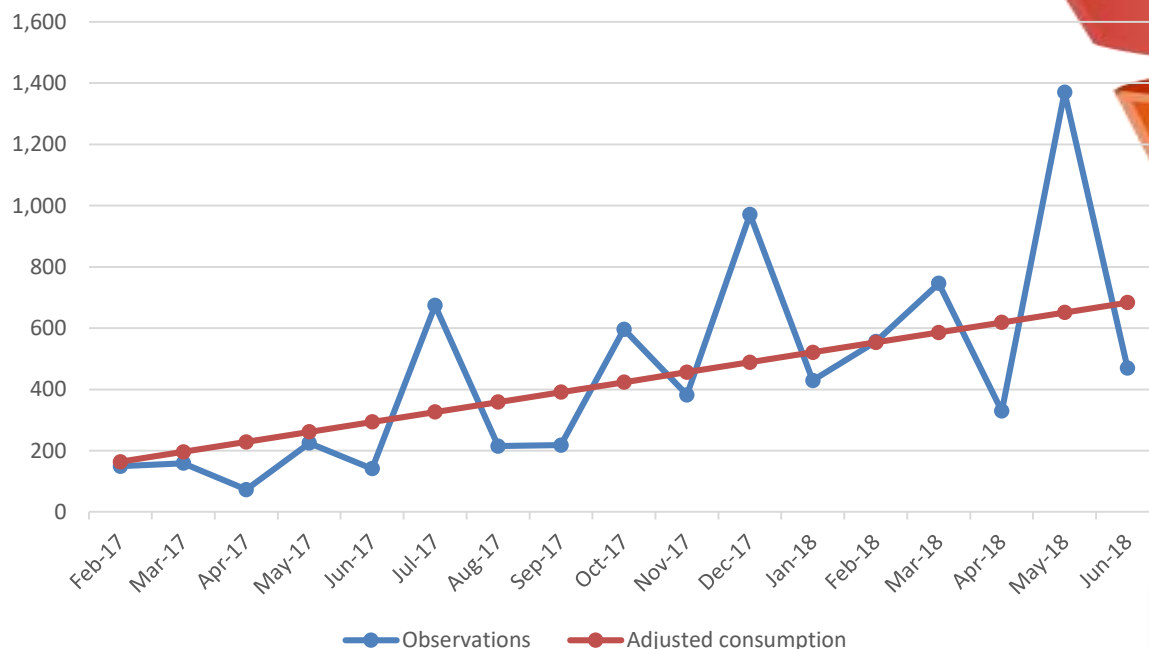
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METHODOLOGY

- Manually Fit Linear Growth Models (proForecaster)

Dolutegravir 50mg tablets 30 tablets



Data smoothing

ATC/DDD

Growth estimation



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RSA Pharma database



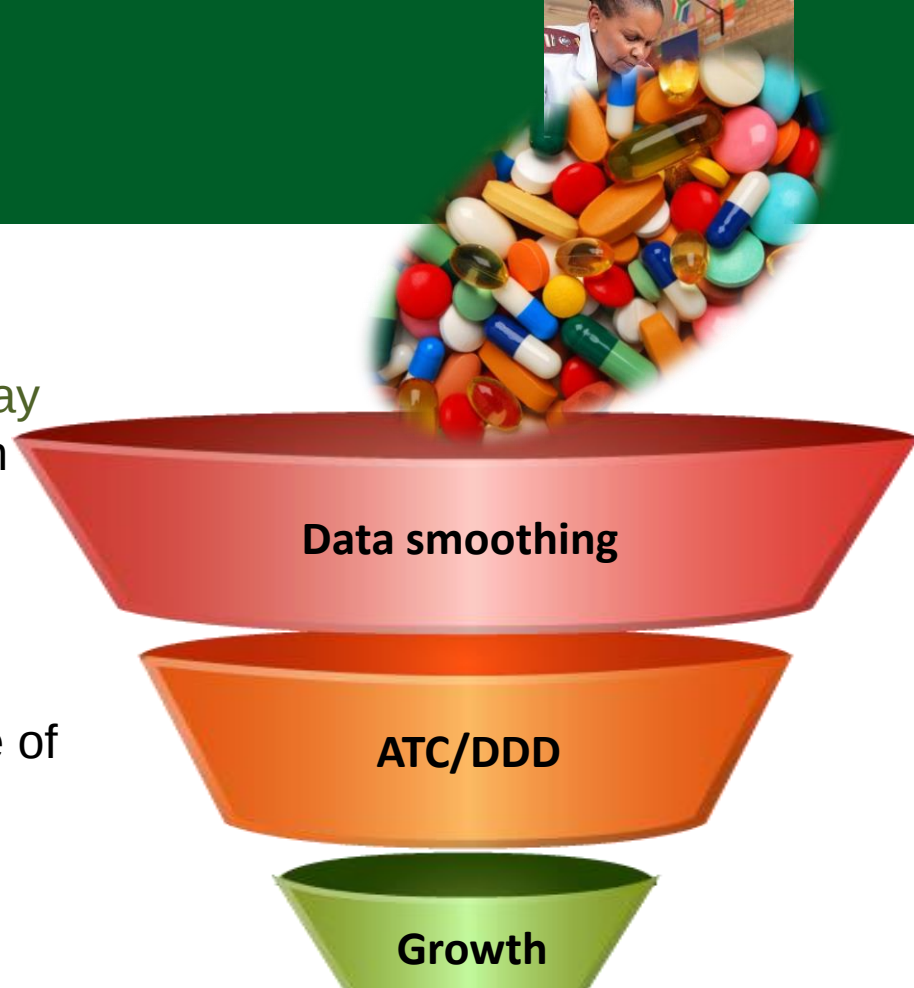
METHODOLOGY

- Defined Daily Dose:

Assumed average maintenance dose per day for a medicine used for its main indication in Adults

Uses:

- Technical measurement that allows measurement and comparison of volume of medicine use
- Rough estimate of consumption, not an exact picture of actual use



	ATC	Strength	Strength Unit	Pack Size	Pack Size Unit	DDD	DDD Unit	Prescription days/month
Dolutegravir 50mg tablets 30 tablets	J05AX12	50	mg	30	tablet	50	mg	30



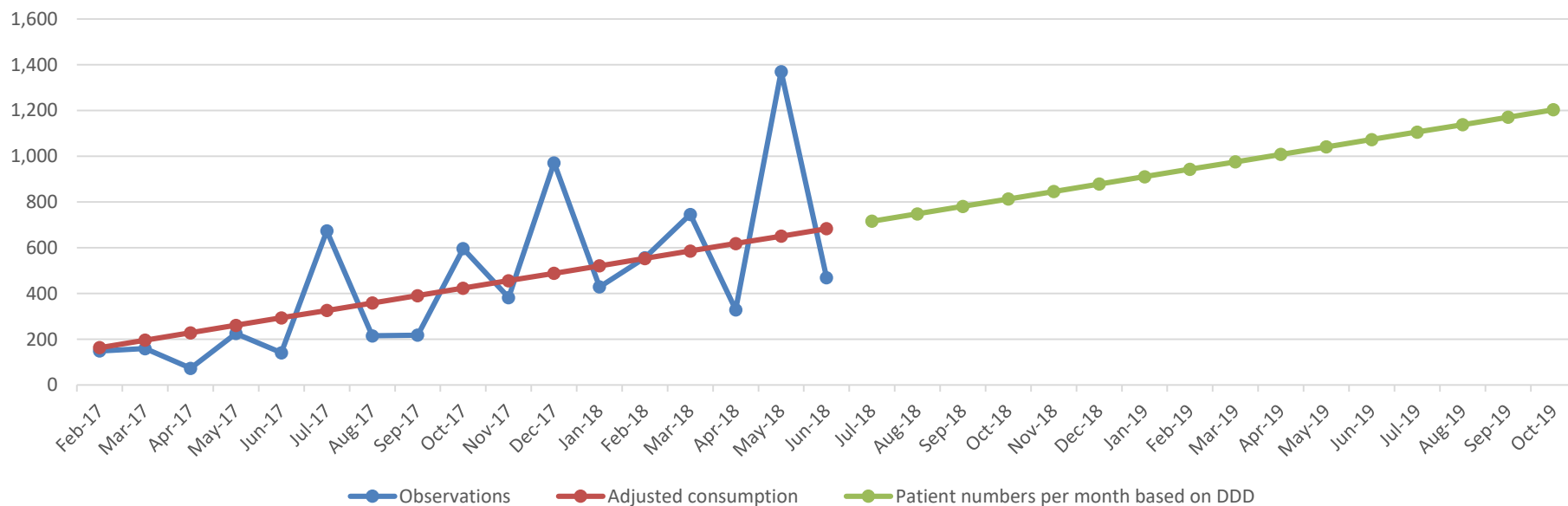
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METHODOLOGY

- Estimated patient numbers
(*linear growth*)



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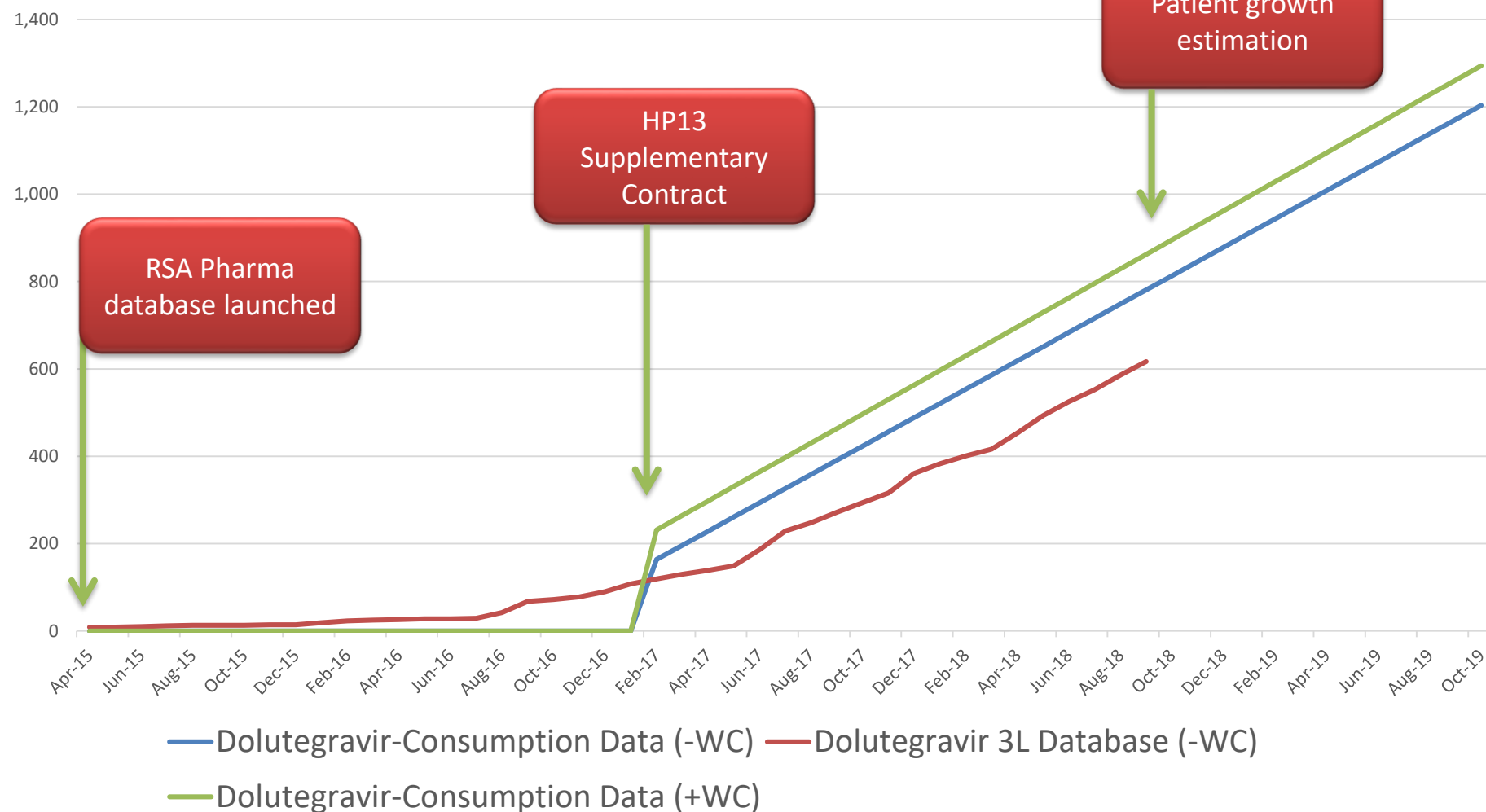
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RESULTS



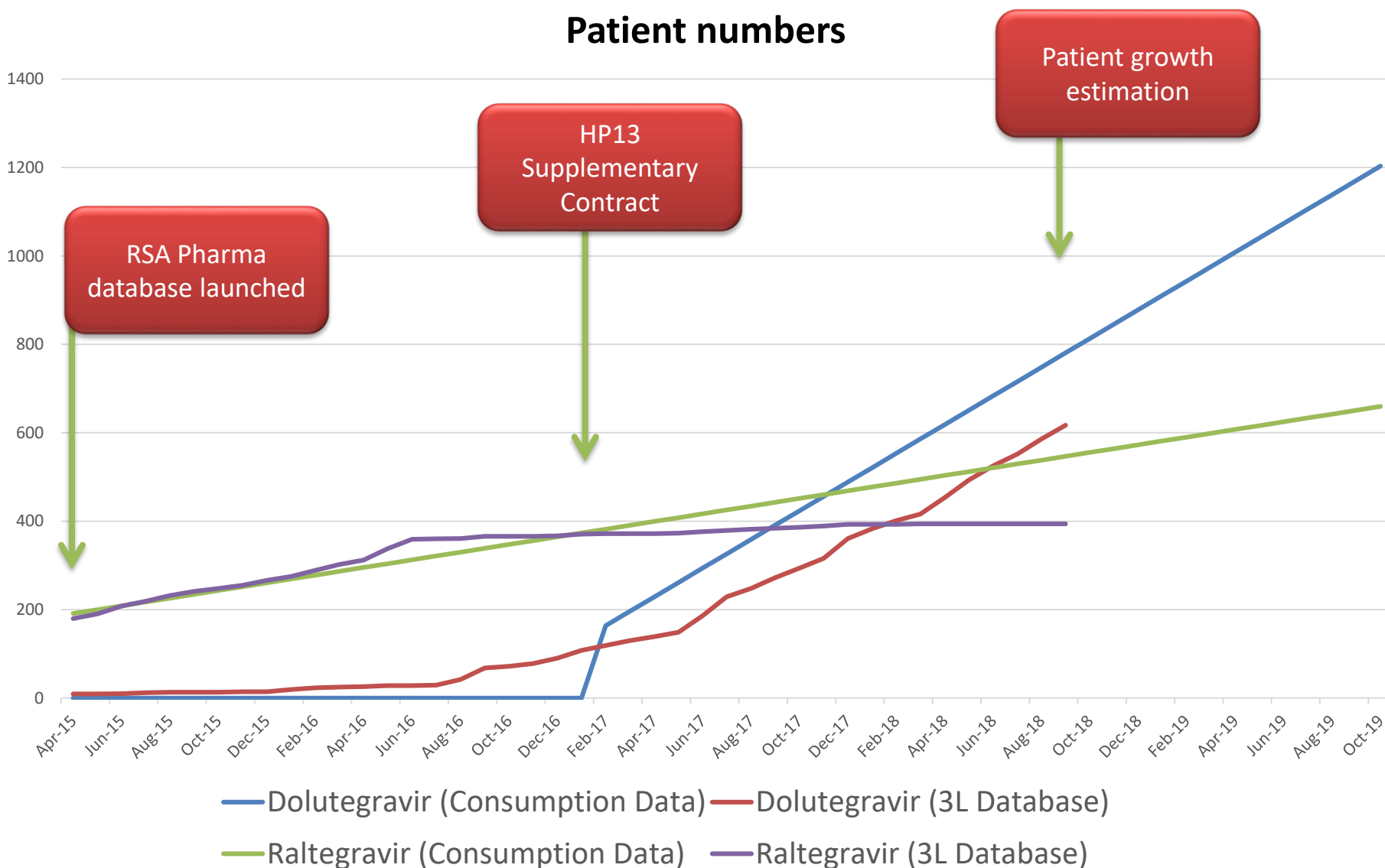
Patient numbers



RALTEGRAVIR?



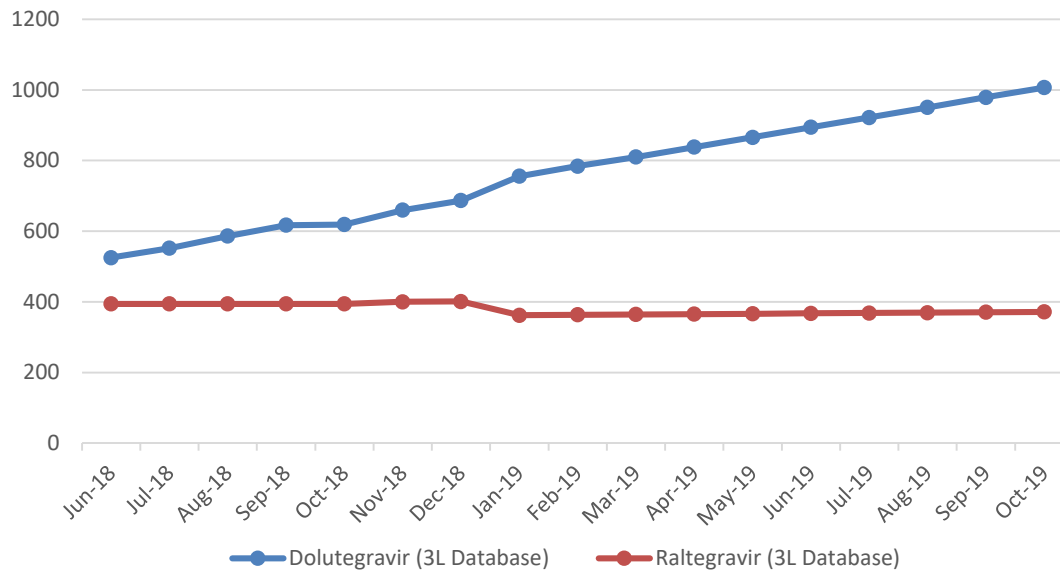
Patient numbers



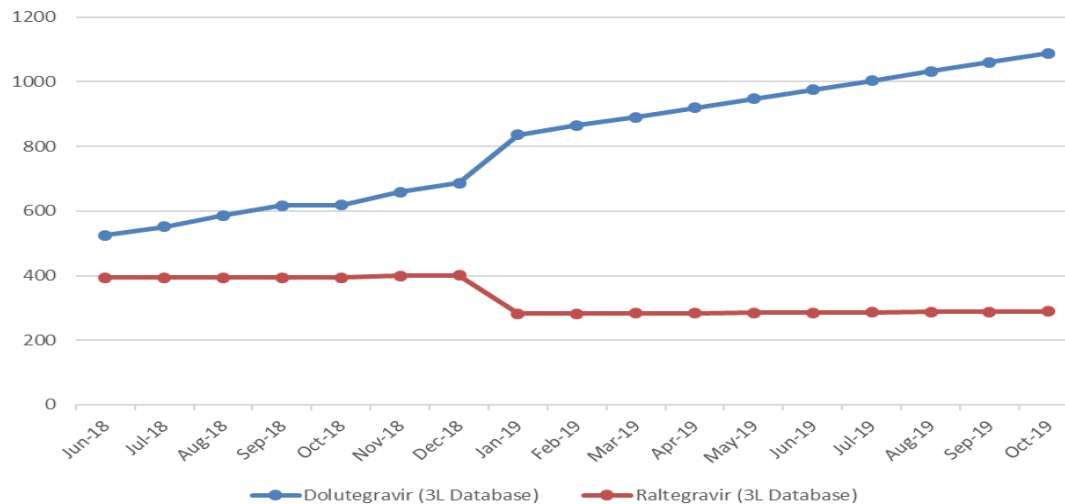
RESULTS (RAL → DTG)



RAL → DTG Switch Rate 10%



RAL → DTG Switch Rate 30%



NDP

CONCLUSION



A Continuous Interlocked Process—Not an Event

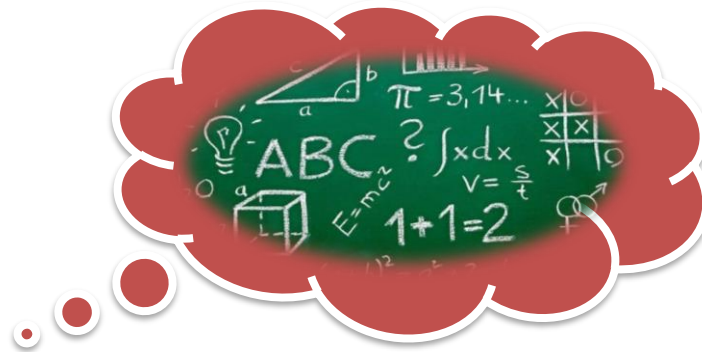


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CO-AUTHOR



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