

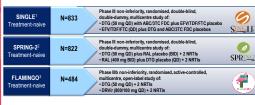
Introduction

- Dolutegravir (DTG, GSK1349572), an INSTI not requiring boosting, is approved in 53 countries for HIV-1 infected patients. It has shown good efficacy and safety in treatmentnaive patients¹⁻³
- We present subgroup results from the efficacy analyses of the phase III/IV studies ING113086 (SPRING-2), ING114467 (SINGLE) and ING114915 (FLAMINGO) up to Week 96 (and Week 144 for SINGLE) in antiretroviral-naive adults with HIV-1 infection1-3

1, Raffi et al. Lancet. 2013:381:735-743. 2, Walmsley S et al. JAIDS 2015 ePub ahead of print: DOI 10.1097/QAI.00000000000000790. **3.** Molina et al. HIV Drug Therapy Glasgow 2014; Glasgow, UK. Slides O153.

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Methods: DTG treatment naive study designs



- SINGLE study: stratified by baseline HIV-1 RNA (<100,000 or ≥100,000 copies/mL) and investigator selected CD4 cell count (<200 or ≥200 cells mm3)
- SPRING-2 and FLAMINGO studies: stratified by baseline HIV-1 RNA (<100.000 or

≥100,000 copies/mL) and investigator selected NRTI backbone (ABC/3TC or TDF/FTC)

Walmsley S, et al. N Engl J Med 2013;369:1807–18;
 2. Raffi F, et al. Lancet 2013;381:735–43;
 3. Clotet B, et al. Lancet 2014;383:2222–31;

Methods: Efficacy Analysis - Overall Response (Snapshot) and Virologic Response (ERDF)

- In the Snapshot analysis (1° endpoint in each study), a switch or discontinuation for any reason was treated as a treatment failure. The adjusted difference in the proportions was based on a stratified analysis using Cochran-Mantel-Haenszel weights
- In the efficacy-related discontinuations = failure (ERDF) analysis, only virologic failure or withdrawal due to lack of efficacy were counted as failure. Participants who discontinued for other reasons were censored
- Time to ERDF was analysed using the Kaplan-Meier method to allow for censoring

Outcome (Snapshot), n (%) Virologic success HIV-1 RNA <50 c/mL Virologic non response Discontinued for lack of efficacy Protocol Defined Virologic Failure (PDVF) Data in window not <50 c/mL Discontinued for other reason while not <50 c/ml

No virologic data at Week 48 Discontinued because of AE or death Discontinued for other reasons Missing data during window, but on study

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DTG Phase III Treatment-Naïve studies Snapshot Responders: <50 c/mL HIV-1 RNA (week 96)



In SPRING-2, DTG us non-inferior to RAL based on the Snaphot algorithm at Week 96 (adjusted difference in proportion [95% Ct.) DTG-RAU] & 5 (1.1.1.0.01)*

In FARMINGO. DTG was superior to DRV/1 at Week 96 (adjusted difference in proportion [95% Ct.) DTG-DRV/r]

1.2.4 (4.7.2.0.1), P-0.002)*

In SNUEL, DTG + ARG/STC was superior to FFV/TDF/FTC at Week 96 (adjusted difference in proportion [95% Ct.) DTG-EFV/TDF/FTC] & 10 (2.3.1.18), P-0.006)* and at Week 1.44

[TV] Wee 58%, adjusted difference 20 [2.0.1.4.6], P-0.01)*

Scale of a 1.0.10 (2.3.1.18), P-0.006)* and at Week 1.44

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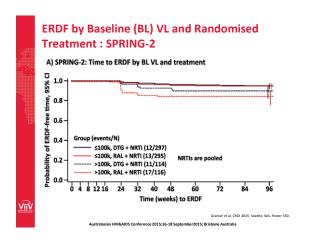
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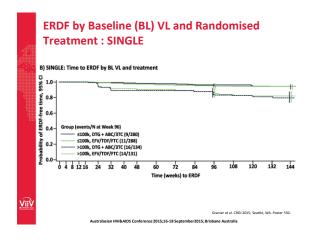
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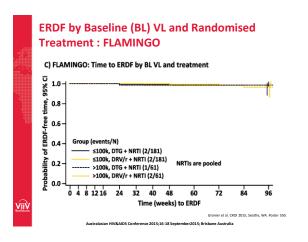
FDA SNAPSHOT 96-Week Subgroup Response RATES

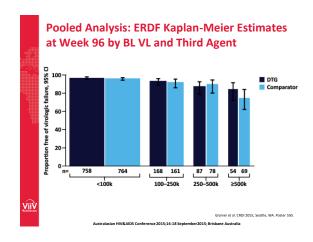
	SPRING-2		SINGLE		FLAMINGO	
	DTG	RAL	DTG	EFV/FTC/TDF	DTG	DRV/r
OVERALL	332/411	314/411	332/414	303/419	194/242	164/242
	(81%)	(76%)	(80%)	(72%)	(80%)	(68%)
INDIVIDUALS WI	TH HIGH BAS	ELINE VL BY	BACKGROU	ND REGIMEN		
>100,000 c/mL						
ABC/3TC	27/37	26/39	95/134	_	11/13	7/12
	(73%)	(67%)	(71%)		(85%)	(58%)
TDF/FTC	62/77	47/77	_	94/131	39/48	25/49
	(81%)	(61%)		(72%)	(81%)	(51%)
INDIVIDUALS WI	TH LOW BAS	ELINE CD4				
<200 c/mm ³	39/55	28/50	39/57	45/62	18/23	14/24
	(71%)	(56%)	(68%)	(73%)	(78%)	(58%)
200 to	116/144	103/139	135/163	113/159	60/73	36/51
<350 c/mm ³	(81%)	(74%)	(83%)	(71%)	(82%)	(71%)

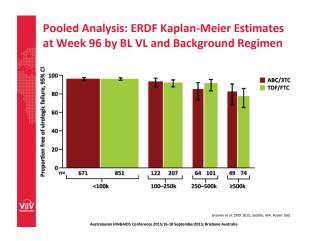
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Conclusions

- By Snapshot analysis, DTG showed superiority over comparator in 2 of the 3 naive studies
- Inconsistencies in Snapshot treatment differences were observed in smaller subgroups but not observed consistently across studies, endpoints or time points
- The efficacy-related endpoint (ERDF) did not show the same inconsistencies, enabling pooled analyses
- These pooled analyses suggested no evidence of a difference in long-term virologic efficacy between DTG and third agents or between ABC/3TC and TDF/FTC at low or high viral load

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Acknowledgements

- This study was sponsored by ViiV Healthcare
- The authors thank the following individuals:
- All subjects who participated in SPRING-2, SINGLE and FLAMINGO;
- All investigators and site staff;
- The study teams and the numerous contributors from ViiV Healthcare and GSK

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