CARAVEL: evaluation of real-world antiviral effectiveness and sustainability of the 2-drug regimen Dolutegravir/Lamivudine FDC in treatment-naïve adults and pre-treated adults who are virologicaly suppressed, in routine clinical care, in France. One-year interim analysis results. <u>P. Philibert¹, C. Charpentier², N. Naguleswaran³, C. Philippe³, L. Roustand⁴, C. Vouillot⁵, L. Hocqueloux⁶</u>

PT- PWH

(N=248)

-

13.0

[6.0;21.0]

192

(77.4%)

17 (6.9%)

¹Hôpital Européen, Marseille, France, ²Hôpital Bichat-Claude Bernard, Paris, France, ⁴GSK, Rueil-Malmaison, France, ⁵ViiV Healthcare, Rueil-Malmaison, France, ⁶CHU, Orléans, France

Category A

Category B

Months (Median [Q1-Q3])

Years (Median [Q1-Q3])

Time since diagnosis for PT-PWH

HIV clinical stage, CDC classification (*n*,%)

Introduction

- 2-Drug Regimens have been assessed to address problems of drugdrug interactions, resistance and tolerance issues of existing ARV.
- DTG/3TC Fixed Dose Combination (FDC) is a complete therapeutic regimen with just 2 active substances.
- This study is conducted to supplement data gathered from clinical trials [1-3] with real-world evidence.

Objectives

- To describe virological outcome of DTG/3TC for the initial suppression of HIV replication in treatment-naïve people with HIV (TN-PWH), as well as maintaining viral suppression in pre-treated PWH who are virologically suppressed (PT-PWH).
- To describe safety in clinical practice.

Methods

- CARAVEL is a French, prospective, non-interventional, single-arm, multi-center cohort study with a 3-year follow-up.
- Patient were stratified in two groups: TN-PWH or PT-PWH.
- To be included, adult PWH should have started DTG/3TC for the first time and according to Summary of Product Characteristics
- Here we present the 1-year interim analysis results.
- Patient with no post-baseline virological load measure were excluded from efficacy set.

Results

Patients

- 49 centers included 304 patients: 56 TN-PWH and 248 PT-PWH.
- Baseline characteristics are presented in Table 1.
- Main reason for switching to DTG/3TC for PT-PWH is treatment simplification (N=140, 56.4%), and main reason for prescription of DTG/3TC for TN-PWH is following EACS Guidelines (N=45, 80.3%).

Effectiveness

- 46 TN-PWH (82.1%) and 225 PT-PWH (90.7%) had at least 1 viral load (VL) measure within 6 months of DTG/3TC initiation.
- Initial suppression (VL <50 copies/ml) was attained for 41 TN-PWH (89.1%) after 6 months of initiation of DTG/3TC, with a median time to viral suppression of 1.1 [1.0;1.9] months, and no virological failure during the first follow-up year (Figure 1).
- After switch to DTG/3TC, 216 PT-PWH (96.0%) maintained a VL<50 copies/ml (Figure 2). 9 PT-PWH did not maintain a VL<50 copies/ml : 5 due to intermittent viremia, and 4 due to virological failure (no available genotypic resistance testing for these 4 patients, 2 of 4 discontinued DTG/3TC).
- CD4 cell count was \ge 500 cell/mm³ at 1 year for 74.1% (N=20) of TN-PWH VS 48.1% (N=26) at baseline and 78.7% (N=111) for PT-PWH VS 79.1 % (N=185) at baseline.

Table 1. Patient characteristics at DTG/3TC initiation

Age (years; mean ± SD)	37.1 (±13.5)	50.8 (±12.9)	Ę
Gender (men; <i>n, %)</i>	47 (83.9%)	185 (74.6%)	probability I suppression
BMI	N= 47	N= 224	oba
kg/m² (<i>mean</i> ± SD)	24.6 (±6.0)	25.3 (±4.0)	pre al si
Comorbidities (3 or more; <i>n</i> , %)	4 (7.1%)	50 (20.2%)	ival viral
Main comorbities for TN-PWH (n,%)			out
HCV	5 (8.9%)	-	Survi
Dyslipidemia	4 (8.5%)	-	
HTA	4 (7.4%)	-	
Diseases of the respiratory system (J00-J99)	4 (7.1%)	-	
Main comorbidities for PT-PWH (n,%)			
Dyslipidemia	-	71 (30.5%)	
HTA	-	56 (22.8%)	
Anxiety and depressive disorders	-	29 (12.1%)	
Time since diagnosis for TN-PWH	0 8 [0 5.1 4]	_	

0.8 [0.5;1.4]

56

(100.0%)

 $\mathbf{0}$

TN-PWH

(N=56)

_	
F	Ig

Category C (AIDS)	0	39 (15.7%)
Duration of ART treatment prior to inclusion for PT-PWH Years (<i>mean</i> ± <i>SD</i>)	_	12.2 (±8.0)
CD4 count Cell/mm ³ (<i>mean</i> ± SD)	N= 54 495 (±257)	N= 234 751 (±347)
Viral load at inclusion if detectable for TN-PWH Log10 (mean ± SD)	N= 56 4.3 (±1.0)	-

SD: standard deviation; BMI: body mass index; CDC: Center for Disease Control. Viral load at baseline was undetectable for all PT-PWH (n=248)

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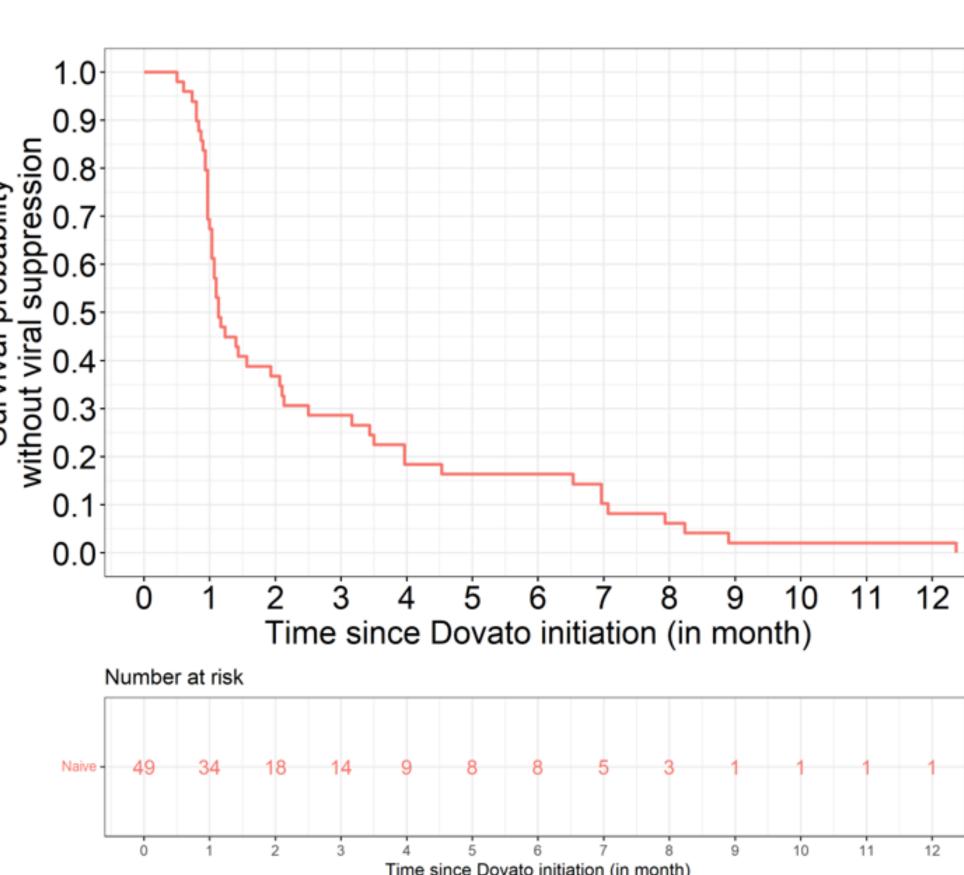
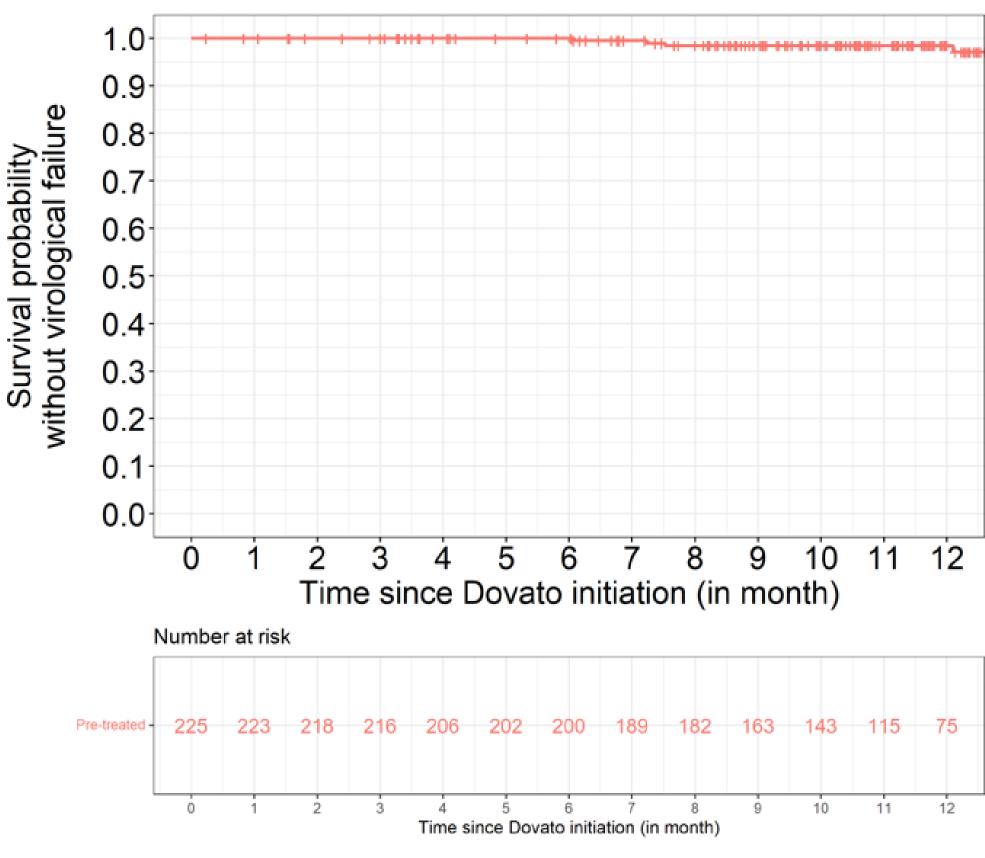


Figure 1. Kaplan-Meier of time to viral suppression for TN-PWH





Safety

- (N=152).

Muscul Genera Nervous Injury, p Gastroi Hepatok Psychia Vascula Infectio Investig Metabo Skin an Social ci

A patient could present several AEs

Conclusions

- choice.

• DTG/3TC was discontinued in 24 PT-PWH (9.7%) : 11 due to patient choice, 10 for safety reasons (Table 2), 2 for virological failure, 1 missing discontinuation reason. DTG/3TC was discontinued in 1 TN-PWH (1.8%) due to patient choice.

• Mean change in body weight during the 1 follow-up year is +0.7 (±5.6) kg (NS) for TN-PWH (N=31) and +0.1 (±4.3) kg (NS) for PT-PWH

Table 2. Safety cases leading to DTG/3TC discontinuation for PT-PWH

ADVERSE EVENTS (AEs)	PT-PWH (N=248)
oskeletal and connective tissue disorders	5 (2.0%)
I disorders and administration site conditions	4 (1.6%)
s system disorders	4 (1.6%)
poisoning and procedural complications	3 (1.2%)
intestinal disorders	2 (0.8%)
biliary disorders	2 (0.8%)
atric disorders	2 (0.8%)
ar disorders	2 (0.8%)
ons and infestations	1 (0.4%)
gations	1 (0.4%)
lism and nutrition disorders	1 (0.4%)
nd subcutaneous tissue disorders	1 (0.4%)
circumstances	1 (0.4%)

• Based on one-year follow-up analysis results, DTG/3TC demonstrated virological efficacy in both TN-PWH and PT-PWH in routine clinical care. 89.1% TN-PWH attained a VL<50 copies/ml after 6 months of treatment initiation and 96.0% of PT-PWH maintained a VL<50 copies/ml after switching to DTG/3TC.

• There was no virological failure in TN-PWH and only 4 in PT-PWH during the first follow-up year.

• DTG/3TC was discontinued for 8.2% PWH, mainly due to patient

• DTG/3TC had no significant impact on patient's body weight during the first year of follow-up.

• These real-life conditions results confirm those observed in clinical trials in terms of efficacy and safety of DTG/3TC for both treatment-naïve and pre-treated PWH.

References: 1. Figueroa et al. IAS 2017; Paris, France. Poster MOPEB0287. 2. Joly et al., EACS 2017, Poster PE9/11. 3. An Efficacy, Safety, and Tolerability Study Comparing Dolutegravir Plus Lamivudine With Dolutegravir Plus Tenofovir/Emtricitabine in Treatment naïve HIV Infected Subjects (Gemini 1). Retrieved November 24,



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