## 2 year outcomes of dolutegravir/rilpivirine in virologically suppressed HIV-infected PLHIV: Real-world data from the German JUNGLE cohort




## Background

In the SWORD-182 studies, switch to dolutegravir (DTG) and rilipivirine (RPV) maintained viral suppression for
148 weeks with low rates of virologic failure [1]. 148 weeks with low rates of virologic failure [1].
The Germman JUNGLE cohort provides prospective real-world data (RWD) on DTG/RPV effectiveness,
tolerability, symptom distress and patient reported treatment satisfaction in pre-treated people living with HIV (PLHIV). Of note, JUNGLE participants were more extensively pre-treated than SWORD participants and had a higher
prevalence of advanced HIV disease at baseline. evalence of
Here we present the 2 year outcomes.

## Methods

JUNGLE is an ongoing non-interventional, 3 year, prospective, multi-center cohort study in Germany Main inclusion criteria

Adalt HIV-1 infected patients on suppressive ART for 26 months switched to DTG/RPV in routine clinical care
No history of virologicticaluse
No INSTT I or viriogicic reaisistance mutaions
No hepatitiss coinfection
No contraindication based on the SmPC (summary of product characteristics)
Outcomes




Results
Study population
Overall, 200 patients were enrolled across 24 study centers in the JUNGLE cohort.
Overall, 200 patients were enroled across 24 stuady centers in the JUNGLE cohort.
At data-cut, 188 PLHIV were eligible for analysis $n=12$ excluded due to missing follow-up data/M12 visit
window not yet reached). Baseline characteristics are shown in Table 1 .

| Table 1 . Baseline characterisitics | Total | N (Observed data) |
| :---: | :---: | :---: |
| Sex, male, n (\%) | 170 (90.4) | 188 |
| Age, years, median (interquarili range; QR ) | 49 (40-57) | 188 |
| Age 250 years, n (\%) | 90 (47.9) | 188 |
| Body weight, kg , median (IQR) | 78 (68-89) | 155 |
| BMI, kg/m², median (IQR) | 24 (22-27) | 155 |
| CD4 T-cell count, cells $/$ L, median (IOR) | 712 (575-934) | 188 |
| History of AIDS (CDC C), n (\%) | 33 (17.6) | 188 |
| Time since HIV diagnosis, years, median (IQR) | 11 (6-16) | 185 |
| Time on ART, years, median (IQR) | 8 (4-14) | 167 |

Comorbidities at baseline
Comorbidities were documented in 117 patients (62.2\%).
The most common comorbidities (in $>10 \%$ of patients) were hypertension ( $n=58,30.9 \%$ ), acute depression $(n=32,17.0 \%)$, lipid disorders $(n=32,17.0 \%)$, chronic kidney disease ( $(n=27,14.4 \%)$, insomnia $(n=25,13.3 \%)$,
and pulmonary disease $(n=19,10.10)$, and pulmonary disease ( $n=19,10.1 \%$ ).
Antiretroviral treatment (ART) prior to switch to DTG/RPV

- The median duration on ART before DTG/RPV was 8.0 years (IQR: 4.0 - 14.0 ).

Of 188 patients, $10.6 \%$ switched from first-line ART, $41.5 \%$ had a history of 23 ART changes (Table 2a). $86.6 \%$ of patients were switched from triple ART and $47.6 \%$ had been on a multi-tablet regimen. Previous

| Table ea. | Treatment switches prior to DTG/RPV | $\mathrm{n}(\%)$; $\mathrm{N}=188$ | Table 2 b . | Previous ART prior to DTG/RPV (in $>5 \%$ ) | n (\%); $\mathrm{N}=188$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No modifications | 20 (10.6) |  | DTG/3TC/ABC | 26 (13.8) |
|  | $1-2$ modifications | 77 (41.0) |  | RPVIFTCTAF | 25 (13.3) |
|  | 23 modifications | $78(41.5)$ |  | Evg/cobiftctaf | 15 (8.0) |
| unknown |  | 13 (6.9) |  | EFVFTCTDP | 13 (6.9) |
|  |  |  |  | DTG + RPV | 13 (6.9) |
|  |  |  | $3 T C$, lamivudine; ABC, abacavir; COBI, cobicistat; DTG, dolutegravirEVG, elvitegravir; FTC, emtricitabine; RPV, rilpivirine |  |  |
|  |  |  |  |  |  |

Reasons for switch
Primary reasons for switching to DTG/RPV were side effects of previous ART (26.6\%), switch to a single-
tablet regimen (22.3\%) and reduction of substance exposure (20.2\%).
Persistence on study and/or DTG/RPV and discontinuation reasons

- Persistence on study and/or DTG/RPV through 2 years was $77 \%$ (Figure 1 )

43 PLHIV discontinued the study (23\%); 4 PLHIV ( $2 \%$ ) were lost to follow-up.
Reasons for discontinuation were adverse drug reactions (ADRs, total $10.6 \%$; year $110.0 \%$; year $20.6 \%$ ),
patient wish ( $6.4 \%)$, doctor's decision ( $(2.7 \%)$, and other ( $3.2 \%$ ); no discontinuation due to virologic reasons.
Figure 1. Persistence on study and/or DTG/RPV (Kaplan-Meier analysis)


Satety

- Until data-cut, 40 ADRs (grades $1-2,1 \times$ grade 3 ) were reported for 28 PLHIV ( $15 \%$

No serious ADR was reported
Most common ADRs were ( $>1$ eventt: : Sleep disorder $(n=9)$, depression ( $n=4$ ), diarrhoea ( $n=3$ ), vomiting ( $n=22$, myalgia
$(n=2)$ and nervous system disorder ( $n=22$ ) $(n=2)$ and nervous system disorder ( $n=22)$
In 20 patients (10.6\%), ADRS led to discontinuation of DTG/RPV ( $n=29$ ADRs; multiple ADRs per patient possible, see Figure 2).

References
1.Lbra e U. Hung
Acknowledgments


Effectiveness
Year 2 viral suppression rate was $75 \%$ ( $n=137 / 182$; $n=6$ excluded due to missing data) (Figure 2 ). No
patient was discontinued for virologic reasons, and no resistance test during tollow-up was pertormed. Figure 2. Virologic outcomes at year 2


Patient reported outcomes (PROs)
In PLHIV completing questionnaires at baseline and year 2, median changes in HIV-SDM and HIV-TSQs were $-1.0(\mathrm{p}=0.089)$ and +3.0 ( $\mathrm{p}<0.001$ ), respectively (Figure 3).




## Conclusions

DTG/RPV demonstrated high virologic effectiveness with no discontinuations attributed to virologic reasons over two years of observation in a real world setting.
Overall, $11 \%$ of individuals discontinued DTG/RPV due to ADRs, with only $1 \%$ in the $2^{\text {nd }}$ year.
This was consistent with a statistically significant improved treatment satisfaction score in patients remaining on DTG/RPV for two years.

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