



Safety of switching raltegravir 400mg twice daily to raltegravir 800mg once daily in virologically suppressed patients

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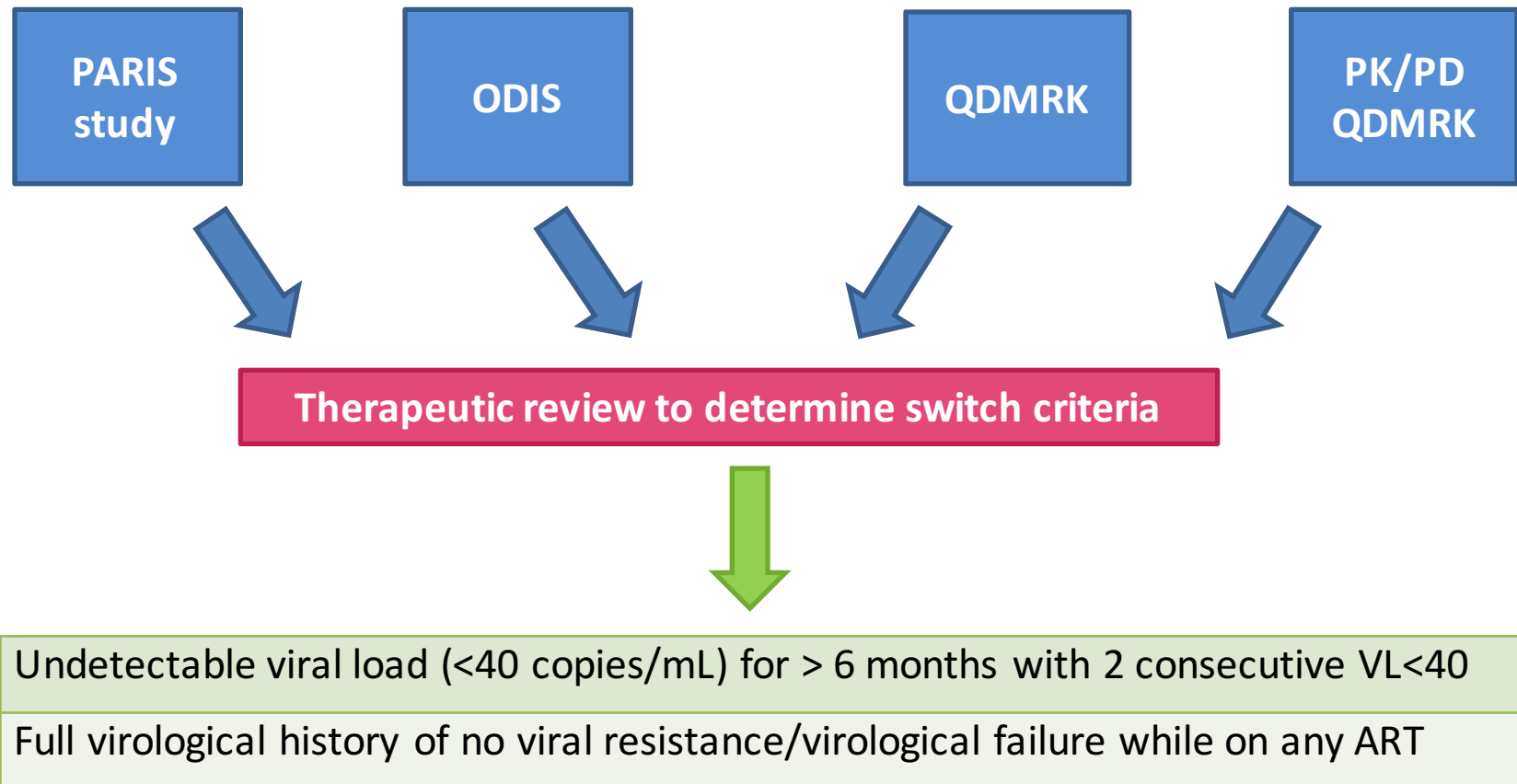


Background

- Raltegravir and efavirenz are first-line 3rd ARV agents in the London guidelines
- Twice-daily regimens may not be convenient for all patients
- Raltegravir is licensed at a dose of 400mg twice-daily, but its half-life and long binding to the HIV integration complex suggest it may be effective in a once-daily dose for select patients



Switch strategy



Eron J, Rockstroh J, Reynes J et al and the QDMRK investigators. Raltegravir once daily or twice daily in previously untreated patients with HIV-1: a randomised, active-controlled, phase 3 non-inferiority trial. *Lancet Infect Dis* 2011; **11**: 905-15

Vispo E, Barreiro P, Maida I et al. Simplification from protease inhibitors to once-or twice-daily raltegravir: The ODIS Trial. *HIV Clin Trials* 2010; **11**(4): 197-204

Caby F, Bonmarchand M, Soulie B et al. Efficacy of raltegravir once daily in switching strategies in HIV-1 infected patients with suppressed viraemia. 14th European AIDS Conference October 2013. Abstract

Rizk M, Hang Y, Luo W-L et al. Pharmacokinetics and Pharmacodynamics of once-daily versus twice-daily raltegravir in treatment naïve HIV-infected patients. *Antimicrobial Agents and Chemotherapy* 2012; **56**(6): 3101-3106

Molto J, Valle M, Back D et al. Plasma and intracellular (peripheral blood mononuclear cells) pharmacokinetics of once-daily raltegravir (800milligrams) in HIV-1 infected patients.



Switch strategy continued

- It was agreed in the HIV drugs sub group that;

All switches to be referred to the virtual HIV MDT clinic

Recommended that all patients are followed up for 1st VL within 3 months of switch

- It was agreed that pharmacy would;

Counsel all patients on unlicensed dosage

Provide all patients with a specially developed PIL

Take a full medication history for each patient to identify any DDIs

Counsel all patients to take with/after food

Document all of the above in the patients medical record using a specially designed counselling template



Aims

- Data was collected for all patients switched to RAL OD from October 2015 to January 2017 and analysed to observe;
 - The number of patients that maintained virological suppression
 - The number of patients who discontinued RAL OD for any reason



Results

Baseline characteristics

Number of patients switched to RAL OD	271		
Mean CD4 (c/ μ L) prior to switch	603		
3 rd ART agent prior to switch	RAL BD	NNRTI	Other
	200 (74%)	66 (24%)	5 (2%)
ART backbone prior to switch	TDF/FTC	ABC/3TC	Other
	205(75%)	61 (23%)	5 (2%)



1st VL Results

Number of pts with 1 st VL result post-switch	192 (71%)
Median time to 1 st VL post-switch (weeks)	12
Number of pts with 1 st VL < 40	188 (98%)
Number of pts with 1 st VL > 40	4 (2%)
Number of pts with 1 st VL > 40 whose repeat VL < 40	3 (75%)

- Of the 4 patients with a 1st VL >40 the results were 43, 45, 59 and 68 respectively
- 3 of the 4 patients repeat VL was <40 with no change to the ARV regime
- 1 pts repeat VL (1st VL = 45) has yet to be repeated



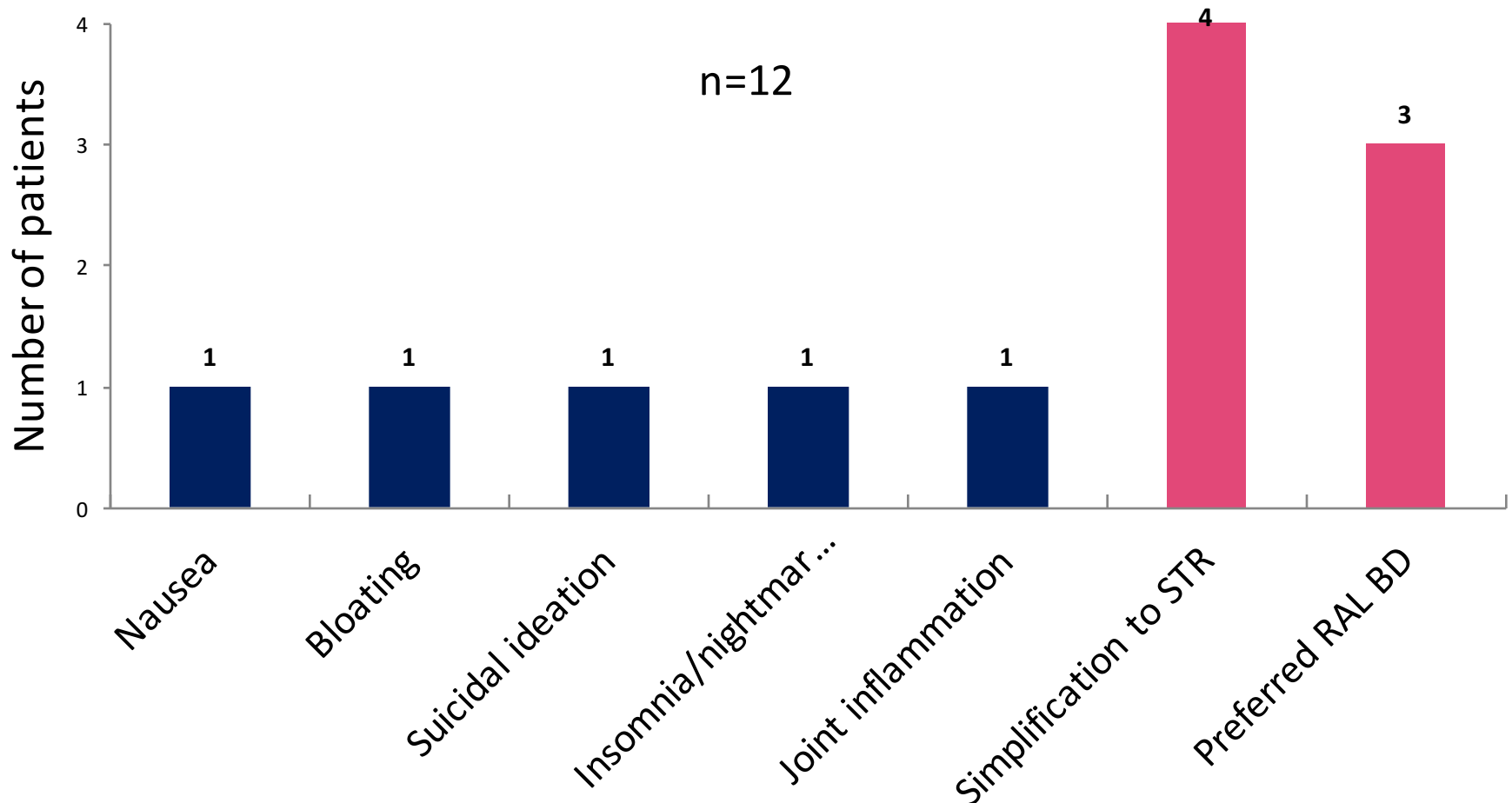
2nd VL Results

Number of pts with 2 nd VL post-switch	85 (43%)
Median time to 2 nd VL post-switch (weeks)	28
Number of pts with 2 nd VL < 40	81 (95%)
Number of pts with 2 nd VL > 40	4 (5%)
Number of pts with 2 nd VL > 40 whose repeat VL < 40	3 (75%)

- Of the 4 patients with a 2nd VL >40 the results were 41, 54, 65 and 153 respectively
- 3 of the 4 patients repeat VL was <40 with no change to the ARV regime
- 1 pts repeat VL (2nd VL = 41) has yet to be repeated



Switches from RAL OD for any reason including adverse events





Discussion

- Between October 2015 and January 2017, 271 patients who met the pre-determined switch criteria chose to switch to RAL OD
- 188/192 (98%) patients with a 1st VL post-switch have a VL<40
- 81/85 (95%) patients with a 2nd VL post-switch have a VL<40
- No patients have 2 consecutive VL>40 post-switch*
- Only 5/271 (1.8%) patients switched to an alternate regimen due to reported ADRs

*pending the 2 pts who are awaiting a repeat 1st/2nd VL respectively



Conclusions

In patients established on ART who desire a once-daily regimen and who meet the local guideline criteria, the use of raltegravir 800mg once-daily is safe in terms of maintaining an undetectable viral load as well as patient tolerability.



Acknowledgements

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