

SPIRIT

Switching PI to Rilpivirine In-combination with Truvada as a single-tablet regimen Week 24 Results

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Association of Nurses in AIDS Care
Tucson, Arizona
November 15-17, 2012

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SPIRIT Study Design

Switching PI to Rilpivirine In-combination with Truvada as a single-tablet regimen
Multicenter, international, randomized, open-label, Phase 3b, 48-week study

- Stable PI + RTV + 2 NRTIs with HIV-1 RNA <50c/mL ≥ 6 months
- On 1st or 2nd regimen
- No prior NNRTI use
- No known genotypic resistance to study drugs (476 treated subjects)

n=317

↓

2:1

n=159

FTC/RPV/TDF STR

→

FTC/RPV/TDF STR

PI + RTV + 2 NRTIs

→

FTC/RPV/TDF STR

24 weeks

Primary Endpoint

48 weeks

Primary Endpoint: Non-inferiority (12% margin) of FTC/RPV/TDF to PI+RTV + 2NRTIs by FDA snapshot analysis HIV-1 RNA <50 copies/mL at 24 weeks

Secondary Endpoints: Change in fasting lipid parameters
Safety and tolerability
Change in CD4 cell count

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SPIRIT Baseline Characteristics & Screening ARVs

Characteristic	FTC/RPV/TDF N = 317	PI+RTV+ 2NRTIs N = 159
Median age, years (Q1, Q3)	42 (35, 48)	43 (36, 49)
Male, %	86	91
Race, %		
White	76	78
Black	19	14
Ethnicity, %		
Latino	16	20
Median time since first ART, years (IQR)	2.9 (1.9, 4.4)	2.6 (1.7, 4.8)
Mean CD4 cell count, cells/mm ³ (SD)	576 (237)	600 (259)

Screening ARVs (%)

NNRTI*

RTV-boosted PI†

* 3TC, lamivudine; d4T, stavudine; ABC, abacavir; APV, amprenavir; ATV, atazanavir; DRV, darunavir; FPV, fosamprenavir; FTC, emtricitabine; LPV, lopinavir; RTV, ritonavir; SOV, saquinavir; TDF, tenofovir disoproxil fumarate; ZDV, zidovudine

† Includes all treated participants (N = 476). 2 participants enrolled not on a boosted PI (protocol violation, enrolled on EFV/FTC/TDF)

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SPIRIT HIV-1 RNA <50 c/mL at Week 24 FDA Snapshot Analysis – ITT Population

Switching to FTC/RPV/TDF was non-inferior to remaining on PI+RTV+2NRTIs

93.7%

89.9%

Proportion of subjects, %

Virologic Suppression

0.9%

5.0%

Virologic Non-Suppression

5.4%

5.0%

No W24 Data

95% CI for Difference

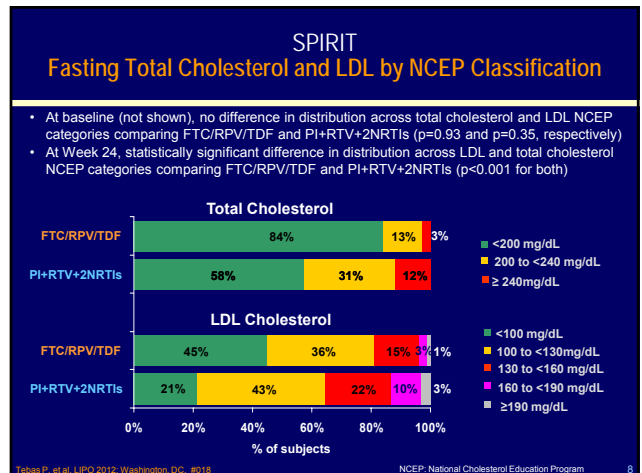
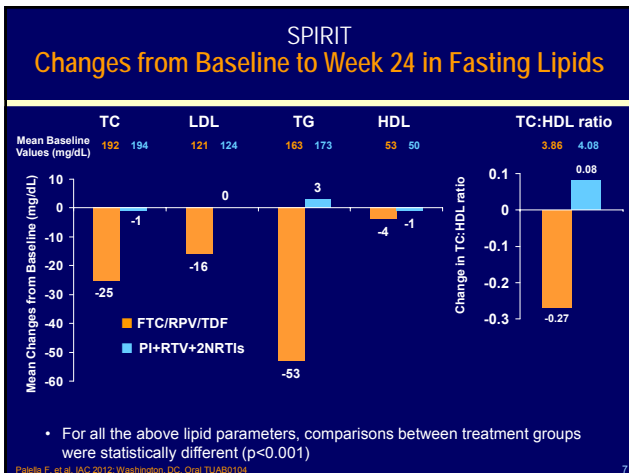
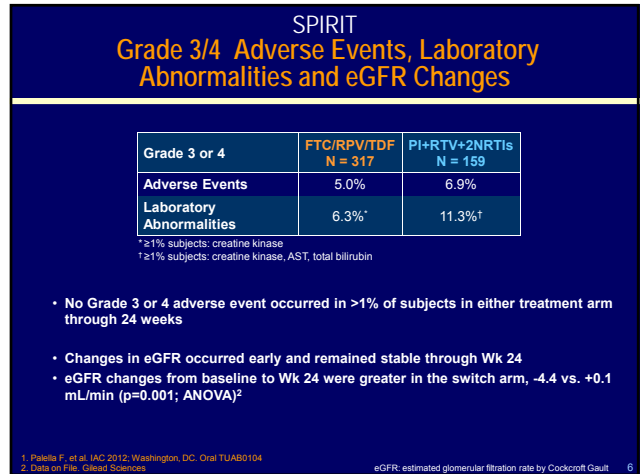
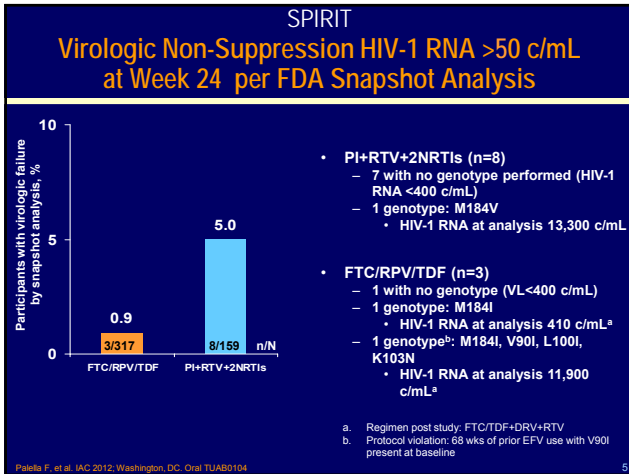
Favors PI+RTV+2NRTIs Favors FTC/RPV/TDF

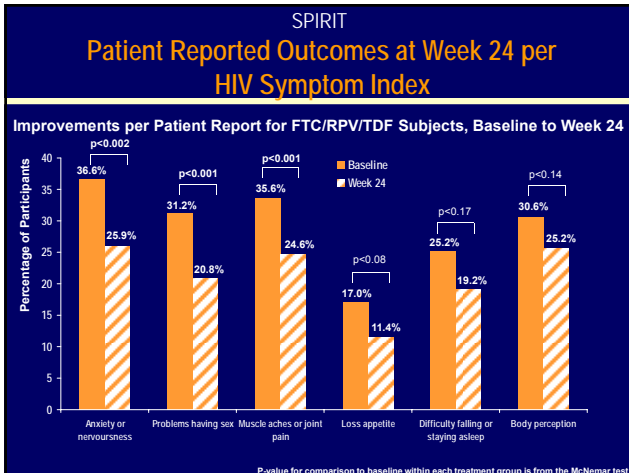
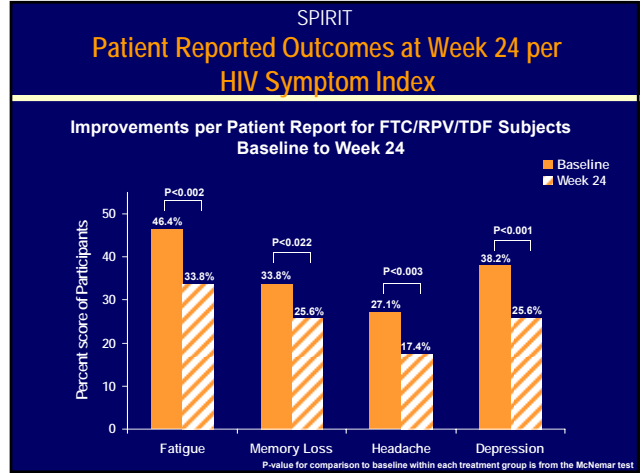
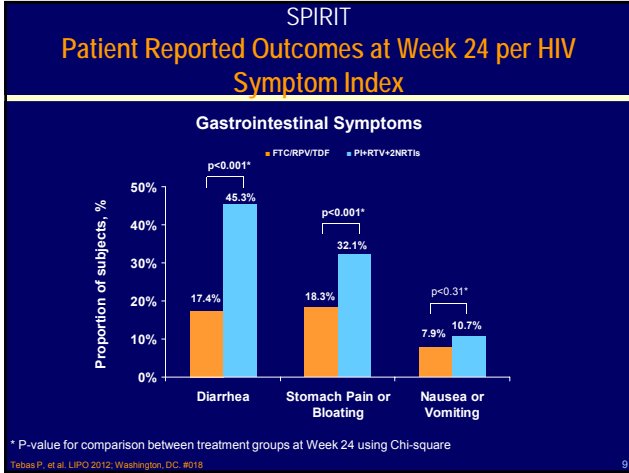
-12% -1.6 3.8 9.1 12%

Secondary endpoint of ITT (Missing=Excluded) for HIV-1 RNA <50 c/mL
• 99.7% for FTC/RPV/TDF vs. 94.7% for PI+RTV+2NRTIs

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SPIRIT Conclusions

- Through 24 weeks, switching to FTC/RPV/TDF was non-inferior to remaining on PI+RTV+2NRTIs, regardless of baseline HIV-1 RNA¹
- Participants who switched to FTC/RPV/TDF had a lower rate of virologic non-suppression compared to participants remaining on PI+RTV+2NRTIs (0.9% vs 5.0%) at Week 24¹
- Switching to FTC/RPV/TDF resulted in improvement in fasting lipids, including TC, LDL, TGs, and TC:HDL ratio with favorable shifts in NCEP classifications for TC, LDL, and HDL^{1,2}
- Fewer participants who switched to FTC/RPV/TDF reported symptoms by the HIV Symptom Index²
- Fewer participants reported symptoms by the HIV Symptom Index². Greater percentages of FTC/RPV/TDF recipients self-reported satisfaction with their treatment regimen by the HIV-TSQ2

1. Patelia F, et al. IAC 2012; Washington, DC. Oral TUAB0104

2. Tobias J, et al. IUPD 2012; Washington, DC. 401B

HIV TSO: HIV Treatment Satisfaction Questionnaire

Acknowledgements

We greatly appreciate the involvement of all study subjects, Investigators and their staff, and the SPIRIT Study Team

AUSTRIA	GERMANY	UNITED STATES		
Ges, Richard	Altschil, Nikolaus	Albrecht, Heinfritz	Khanlou, Homayoon	Schraeder, Stefan
Hass, Bernhard	Falkenheuer, Gerd	Belloo, Nicholas	Kinder, Ford	Schraeder, Shannon
Rieger, Armin	Knecht, Gabriele	Benson, Paul	Klein, Daniel	Shalit, Peter
Schaly, Horst	Micus, Stefan	Berger, Daniel	Lamouca, Anthony	Shansley, David
Vetter, Norbert	Rockstroh, Jürgen	Boban, Robert	Lubchek, Ronald	Slim, Jihad
	Siebert, Hans-Jürgen	Brachmann, Philip	Luciani, Christopher	Telue, Pablo
	van Lunzen, Jan	Bredenk, Fritz	Markowitz, Martin	Thompson, Melanie
BELGIUM		Brinson, Cynthia	Marzoni, Claudia	Towner, William
Clumeck, Nathan		Burck, Jeffrey	Mayer, Cynthia	Yang, Thomas
Vandecasteele, Lino	ITALY	Casanes, Beata	McCurdy, Lewis	Wade, Barbara
Van Wijngaerden, Eric	Antonini, Andrea	Cornich, Paul	McDonald, Cheryl	Ward, Douglas
	D'Amico Mantovani, Antonella	Cohen, Calvin	McGowan, Joseph	Wheeler, David
CANADA	Lazzarin, Adriano	Crofoot, Gordon	Milovan, Donna	Wilson, Almer
Brunetta, Jason	Maggiolo, Franco	Cupichavak, Frederick	Mills, Anthony	Wondolier, Michael
Comeau, Brian	Rizzardi, Gustavo	DeJesus, Edwin	Morales Ramirez, Javier	Zolopa, Andrew
Kasper, Ken		Dieta, Craig	Mounar, Karim	
Lapierre, Francois	SPAIN	Dreier, Robin	Pallela, Frank	SPIRIT Study Team
Rachlis, Anita	Berenguer, Juan	Edesten, Howard	Polard, Richard	Chung, Devon
	Coté, Bonaventura	Farrin, Jason	Preusky, David	Das Madhwar, Babi
FRANCE	Moreno, Santiago	Folansbee, Stephen	Rampopol, Mofi	Da Costa, Marilyn
Cotte, Laurent		Gallant, Joel	Rashbaum, Bruce	Nocella, Amy
Durant, Jacques	UNITED KINGDOM	Garcia, Fernando	Richmond, Gary	
Giard, Pierre Marie	Fisher, Martin	Galie, Joseph	Rodwin, William	COMPLEEA Project Team
Kalish, Christine	Gazzard, Brian	Geogorosi, Georgiana	Rodriguez, Jorge	Chuck, Susan
Molina, Jean-Michel	Johnson, Margaret	Greger-Zarlungo, Paola	Rodwick, Barry	Hilton, John
Pellegrin, Jean-Luc	Orkin, Chico	Henry, W. Keith	Ruane, Peter	Kato, Anshu
Reif, Francois	Reeves, Ian	Horton, James	Saag, Michael	Lin, Helen
Stama, Laurence	Wilens, Edmund	Hsu, Ricky	Santiago, Steven	Mao, Lili
Yeni, Patrick		Jefferson, Thomas T	Sax, Paul	Saba, Dina
		Johnson, Marc	Scarsella, Anthony	Weber, Tom
		Jordan, Wilbert		White, Kristen