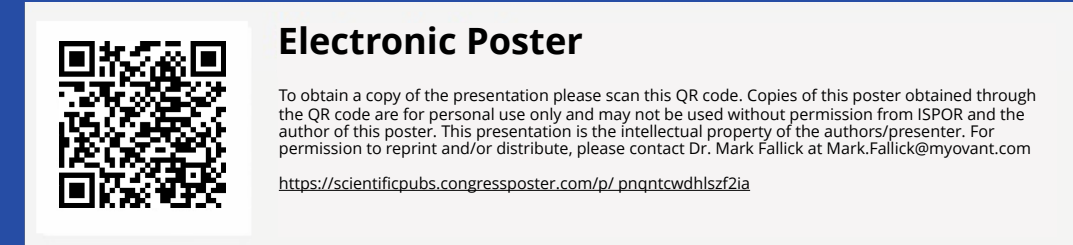


Real World Utilization of Androgen Deprivation Therapy Among Urology Practices: Characterizing Initiation and Transition to Relugolix for Patients with Prostate Cancer (The REAL ADT Transitions Study)

Raj Gandhi¹, Eric Yang², Parjosh Sangha¹, Austin Ngo¹, Janis Pruett¹, Mark Fallick¹

1. Myovant Sciences, Inc., Brisbane, CA; 2. Sumitovant Biopharma, New York, NY.



For questions or comments on this poster, please contact Dr Fallick at mark.fallick@myovant.com

Introduction

- Relugolix was FDA approved in December 2020 as the first oral gonadotropin releasing hormone (GnRH) receptor antagonist to treat advanced prostate cancer and became commercially available in January 2021¹⁻²
 - The approval was based on the HERO study, a randomized, open label trial involving 934 men requiring at least one year of androgen deprivation therapy (ADT)³
 - In the HERO study, patients were randomized (2:1) to receive relugolix 360 mg oral loading dose on the first day, followed by daily oral doses of 120 mg, or leuprolide acetate 22.5 mg injection subcutaneously every 3 months for 48 weeks³
 - In this pivotal trial, relugolix demonstrated suppression of testosterone to castrate levels in 96.7% of patients (day 29-48 weeks), which was superior to leuprolide (P<0.0001)
 - A 54% lower risk of major adverse cardiovascular events (MACE), defined as non-fatal myocardial infarction, non-fatal stroke, and death from any cause, was observed for relugolix relative to leuprolide
- Previous studies have documented transitions between injectable GnRH agonists and antagonists
- This study examined the real-world utilization of relugolix during its first year of availability (January – December 2021) and documented transitions between injectable and oral androgen deprivation therapy (ADT)

Methods

- An observational retrospective analysis was conducted using de-identified electronic medical records
- PPS Analytics Electronic Medical Record (EMR) data from 536,539 patients representing 89 community urology practices in the United States were analyzed
- Patients with at least one record for ADT in 2021 were included
- Excluded from the analysis were patients whose ADT initiation date could not be determined
- Results were stratified by drug class and initiator status, where new initiators were defined as patients with no exposure to ADT in the prior 180 days
- Analysis of transitions between ADTs included patients with only 1 transition

Results

- In 2021, 51,735 patients, mean age 73.0 (standard deviation [SD]:8.5) years, were prescribed ADT
 - Most were continuing users (29,867 [57.7%]) and were prescribed a GnRH agonist (46,368 [89.6%])
 - Of these patients, 3,096 were prescribed relugolix

Results (continued)

- Baseline characteristics for patients prescribed relugolix are shown in **Table 1**
 - Mean ages (SD) were 72.3 (8.6), 73.2 (8.7), and 71.2 (10.4) years in the only relugolix, transition to relugolix, and transition from relugolix groups, respectively
 - Patients transitioned to relugolix from another ADT were more likely to have metastatic disease (51.1%) than patients who received only relugolix (29.6%) and those who transitioned from relugolix to another ADT (33.7%)

Table 1. Baseline Characteristics

Patient Characteristics	Only Relugolix N = 1855	Transition <i>to</i> Relugolix from another ADT n = 881	Transition <i>from</i> Relugolix to another ADT n = 205
Demographic			
Age, mean (SD) in years	72.3 (8.6)	73.2 (8.7)	71.2 (10.4)
Race/Ethnicity, n (%)			
Black/African American	287 (15.5%)	117 (13.3%)	37 (18.0%)
White/Caucasian	1229 (66.3%)	605 (68.7%)	126 (61.5%)
Others/Missing	339 (18.3%)	159 (18.0%)	42 (20.5%)
Insurer Type, n (%)			
Commercial	907 (48.9%)	392 (44.5%)	110 (53.7%)
Medicare	948 (51.1%)	489 (55.5%)	95 (46.3%)
Clinical			
Radiation Therapy in 2021, n (%)	871 (47.0%)	364 (41.3%)	101 (49.3%)
Metastatic Disease,* n (%)	549 (29.6%)	459 (52.1%)	69 (33.7%)

* Database has 2 variables, metastatic confirmed and metastatic possible. Both are included in this count. ADT, androgen deprivation therapy. SD, standard deviation.

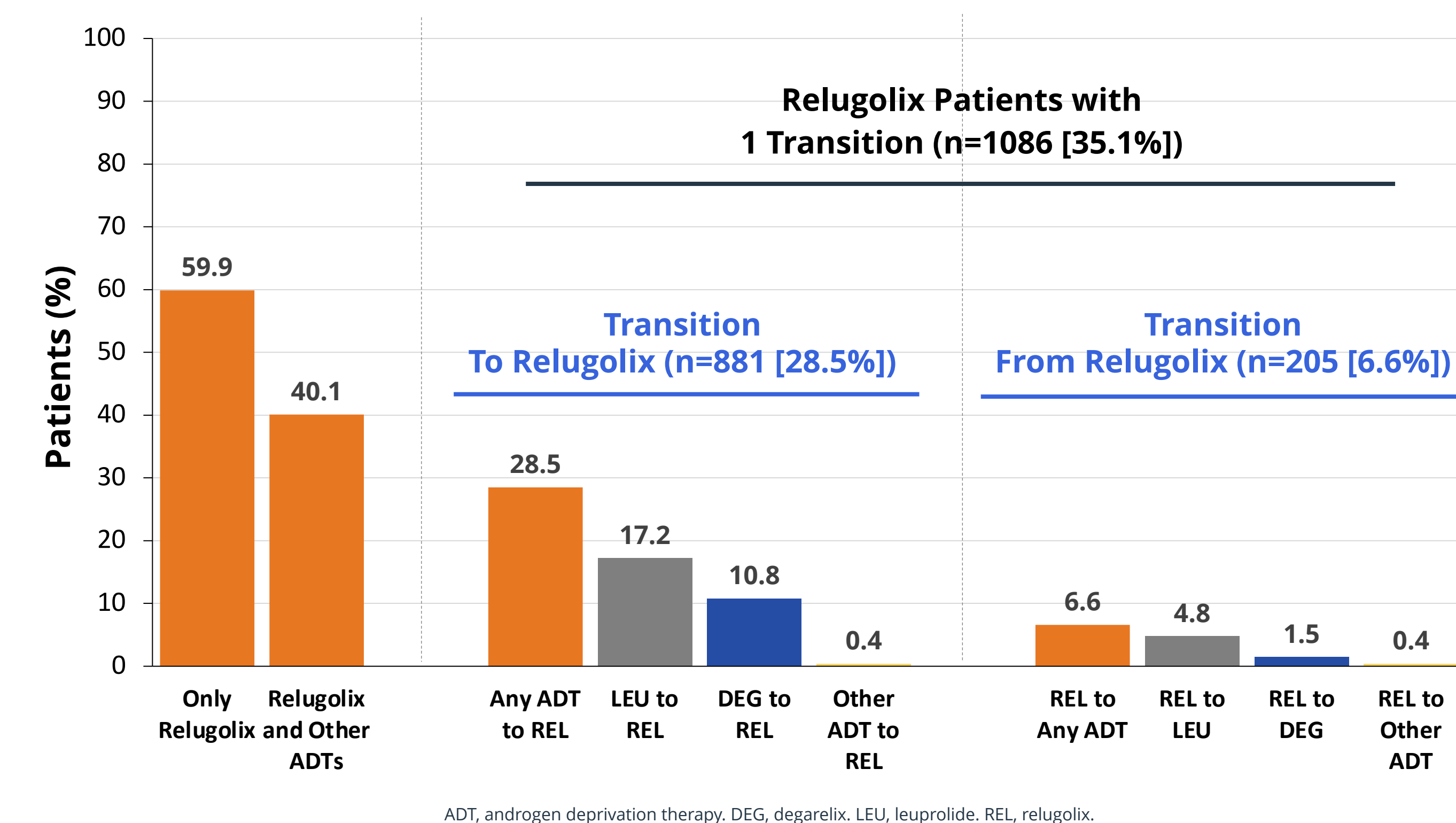
- Over a third of the patients prescribed relugolix (1241 [40.1%]) had exposure to at least one injectable ADT in 2021 (**Table 2** and **Figure 1**)
- Relugolix transitions to and from other ADTs are summarized in **Figure 1**
- Overall, 28.5% transitioned to relugolix; 534 (17.2%) from leuprolide and 335 (10.8% from degarelix)
- Conversely, 148 (4.8%) patients transitioned from relugolix to leuprolide and 46 (1.5%) to degarelix

Table 2. Relugolix Utilization, ADT Transitions and Mean Prescriptions

	2021 Patient Count	Patient %	Mean # Relugolix Prescriptions
Patients on relugolix			
Patients treated only with relugolix (no ADT Transition)	1855	59.9%	2.95
Patients treated with relugolix and other ADTs (pre or post)	1241	40.1%	
With 1 transition	1086	35.1%	
From other ADTs to relugolix			
Leuprolide to relugolix	534	17.2%	3.2
Degarelix to relugolix	335	10.8%	3.54
Other ADT to relugolix	12	0.4%	2.5
From relugolix to other ADTs			
Relugolix to leuprolide	148	4.8%	1.41
Relugolix to degarelix	46	1.5%	1.95
Relugolix to others	11	0.4%	1.82
With > 1 transition between products	155		

ADT, androgen deprivation therapy.

Figure 1. Relugolix Utilization and ADT Transitions



Conclusions

- This descriptive analysis of the first year of novel oral GnRH receptor antagonist availability showed that most relugolix utilization was observed in patients who were new to ADT in 2021
- Patients transitioning to relugolix from another ADT were more likely to have metastatic disease than patients who received only relugolix or those who transitioned from relugolix to another ADT
- The most frequent transitions were from leuprolide to relugolix

References / Acknowledgements

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