Patient (pt) Population and Radiation Therapy (RT) Type in the Long-Term Phase 3 Double-Blind, Placebo (PBO)-Controlled ATLAS Study of Apalutamide (APA) Added to Androgen Deprivation Therapy (ADT) in High-Risk Localized or Locally Advanced Prostate Cancer (HRLPC)

Howard M. Sandler (howard.sandler@cshs.org), ¹ Stephen J. Freedland, ^{1,2} Neal D. Shore, ³ Matthew R. Smith, ⁴ Rosamerlinda Rosales, ⁵ Sabine D. Brookman-May, ^{5,6} David P. Dearnaley, ⁷ Adam P. Dicker, ⁸ Michael R. McKenzie, ⁹ Alberto Bossi, ¹⁰ Anders Widmark, ¹¹ Thomas Wiegel, ¹¹ Jason L. Martin, ¹³ Branko Miladinovic, ¹⁴ Jennifer Whalen, ¹⁵ Marika Ciprotti, ¹⁴ Sharon A. McCarthy, ¹⁵ Suneel Mundle, ¹⁵ Bertrand F. Tombal, ¹⁷ Felix Feng, ¹⁸

¹Cedars-Sinai Medical Center, Los Angeles, CA; ²Durham VA Medical Center, Durham, NC; ³Carolina Urologic Research Center, Myrtle Beach, SC; ⁴Massachusetts General Hospital Cancer Center, Boston, MA; ⁵Janssen Research & Development, Los Angeles, CA; ⁶Ludwig-Maximilians-University, Munich, Germany; ¬The Royal Marsden Hospital and The Institute of Cancer Research, London, UK; ⁶Sidney Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA; ℉Iritish Columbia Cancer Agency, Vancouver, BC, Canada; ┅Institute Gustave Roussy, Villejuif, France; ┅Umeå University, Umeå, Sweden; ┅University Hospital Ulm, Ulm, Germany; ┅Janssen Research & Development, High Wycombe, UK; ┅Janssen Research & Development, San Diego, CA; ┅Janssen Research & Development, Beerse, Belgium; ┅Cliniques Universitaires Saint-Luc, Brussels. Belgium; ԹHelen Diller Family Comprehensive Cancer Center, University of California San Francisco. San Francisco. CA

INTRODUCTION

- Current management of HRLPC includes long-term ADT with primary $\rm RT^{1,2}$ (Table 1)
- Despite definitive primary treatment, these patients have a high risk of metastasis and death
- The phase 3 ATLAS study (NCT02531516) is investigating the benefit
 of adding APA to gonadotropin-releasing hormone agonist (GnRHa)
 and external beam radiation therapy (EBRT) in high-risk patients
 (Figure 1)
- The study is fully enrolled and ongoing at 255 sites in 24 countries

TABLE 1: Treatment outcomes from current management of HRLPC

	Ü
	Patients
Patients treated with RT alone	
Clinical disease-free survival ^a	23%³
Patients treated with RT and ADT	
Clinical disease-free survival ^a	48%³
Biochemical-free survival ^b	74%4

PSA, prostate-specific antigen. ^aTime to first clinical progression (local, local and regional, distant, local and distant, or local, regional, and distant) and/or death from any cause. ^bNo PSA recurrence (PSA ≥2 ng/mL above nadir) or death from prostate cancer.

Values are cumulative 10-year data.

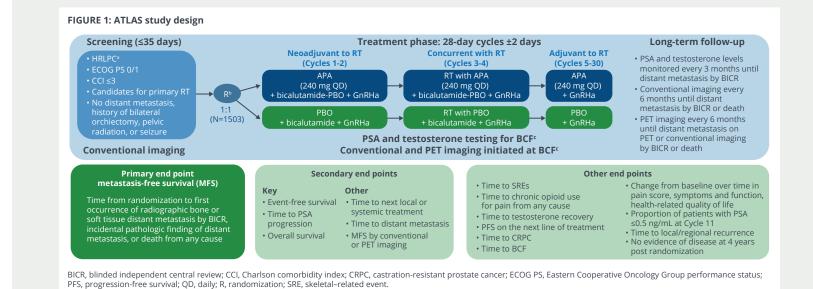
OBJECTIVES

- To describe the distribution of baseline characteristics in this highrisk patient population enrolled in ATLAS
- To describe the application of different RT regimens reflecting recent international guidelines and clinical practice changes for patients with HRLPC

METHODS

- Patients were randomized to receive APA or PBO throughout a 30-cycle treatment phase. All patients received concurrent GnRHa and primary RT as standard of care. The control PBO group also received bicalutamide neoadjuvant and concurrent with RT (Figure 1)
- Collection of positron emission tomography (PET) imaging (prostatespecific membrane antigen, fluciclovine, or choline) was added to the protocol to guide treatment of patients with biochemical failure (BCF) or progressive disease after definitive RT and hormonal therapy
- Patient-reported outcomes are being collected to evaluate the effect of adding APA to GnRHa on symptoms, function, and health-related quality of life

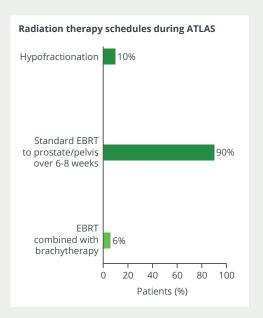




"High-risk localized or locally advanced prostate cancer (with or without N1 disease) defined by 1 of the following at diagnosis: 1) Gleason score of ≥8 and ≥cT2c, or 2) Gleason score of 7 and PSA ≥20 ng/mL and ≥cT2. Patients were stratified by Gleason score, pelvic nodal status, use of brachytherapy boost, and region. Defined by 2 ng/mL increase in PSA over the nadir achieved

ATLAS PATIENT DEMOGRAPHICS AND CHARACTERISTICS

Patient baseline characteristics N=1503 N=1503 Gleason score, n (%) Age, mean (SD), yrs 1065 (71) 438 (29) Black or African American 86 (6) 1337 (89) Region, n (%) CCI. n (%) 195 (13) 169 (11) 571 (38) 583 (39) PSA, mean (SD), ng/mL 20.6 (43) Tumor stage at diagnosis, n (%) 662 (44) Used systemic therapy prior 692 (46) T3 757 (50) Time from diagnosis to 3.6 (3) randomization, mean (SD), mos Regional lymph node stage N1 ^aGnRHa could be started up to 3 months prior to at diagnosis, n (%) treatment Cycle 1.



REFERENCES:

after completion of RT treatment

1. McKay RR, et al. Am Soc Clin Oncol Educ Book. 2020;40:1-12. 2. Payne HA, Hughes S. Oncologist. 2012;17(suppl 1):9-15. 3. Bolla M, et al. Lancet. 2010;11:1066-1073. 4. Widmark A, et al. Lancet. 2010;373:301-308

KEY TAKEAWAYS

Q

ATLAS enrollment is complete. Participants are patients with high-risk and very high-risk prostate cancer planned for primary RT in clinical practice



ATLAS is evaluating if intensifying hormonal therapy with APA improves MFS in conjunction with different types of primary RT

CONCLUSIONS



Baseline characteristics demonstrate high- and very high-risk features of prostate cancer and pelvic nodal involvement in patients undergoing primary RT in clinical practice



The RT schedules applied reflect recent evidence and guideline changes for the use of hypofractionation in this patient population



ATLAS is an example of how RT can be included in phase 3 trials of HRLPC in combination with next-generation hormonal therapy

ACKNOWLEDGMENTS

This study is funded by Janssen Research & Development. Writing assistance was provided by Gwendolyn Elphick, PhD, and Emma Beddie, of Parexel, and was funded by Janssen Global Services, LLC.

© 2022 American Society of Clinical Oncology, Inc. Reused with permission. This abstract was accepted and previously presented at the 2022 ASCO Annual Meeting. All rights reserved.

DISCLOSURES

HMS reports advisory role for Janssen; stock/other ownership in Radiogel; and other for Caribo Publishing; JE reports being an employee of Genomic Health; advisor for Astellas, AstraZeneca Bayer, Clovis Oncology, Dendreon, Exact Sciences, Ferring, Janssen, Merck, Myovant Sciences, Pfizer, and Sanofi; speakers' bureau for AstraZeneca and Sanofi; travel expenses from Sanofi; and research funding from Bayer, Diasorin, GenomeDx, Janssen, MDxHealth, Merck, Myriad Genetics, OPKO Diagnostics, and Progenika; NDS reports advisory roles, speakers' bureau, and or research funding for Abbvie, Amgen, Astellas, AstraZeneca, Bayer, BMS, Boston Scientific, GG Oncology, Clovis Oncology, Dendreon, Exact, FerGene, Ferring, Foundation Medicine, Guardant Health, Genesis Caner Care, Genzyme, InVitae, Janssen, Merck, MDXHealth, Medivation, Myovant Sciences, Myriad Genetics, Nymox, Pacific Edge Biotechnology, Peerview, Pfizer, Posphorus, Propella Therapeutics, Sanofi, Sesen Bio, Speciality Networks, Tolmar, and Urogen Pharma; MMS reports advisory roles for Amgen, Astellas, Bayer, Janssen, Lilly, Novartis, and Plizer and research funding from Bayer, ESSA, Janssen, Lilly, and ORIC Pharmaceuticals; RB. SDB-M, SAM, JLM, BM, and SM are employees of Janssen and patent/royalties for abiraterone acetate; APD reports advisory roles for Acroadant, Alcimed, CVS, Cybrexa Therapeutics, Deallus, EMD Serono, Genentech, IBA, Janssen, Oncohost, Orano Med, Roche, Third Bridge; travel expenses from Oncohost, expert testimony for Wilson Sonsin; patent/ royalties for object the proper of Compounds; stock/other ownership in Oncohost and Self Care Catalyst and other from European Commission; MRM reports honoraria from Bayer and research funding from Astellas, Ferring, Jesen, and Myovant Sciences, AW has nothing to disclose; Ur reports advisory role for Janssen and honoraria from Astellas, Ferring, Jesen, and Myovant Sciences, My Bassen, Myovant Sciences, Myovant Sciences, Myovant Sciences, Myovant Sciences, Roles and Honoraria from Astellas, Ferring, Jensse