# Late Administration of Luteinizing Hormone-Releasing Hormone Agonists and Testosterone Levels >50 ng/dL in Prostate Cancer

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### **Background**

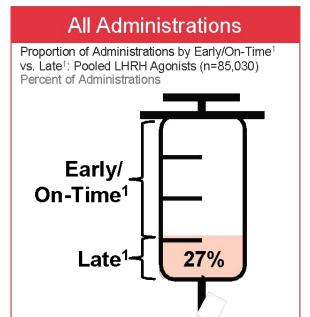
- Maintaining T<20 ng/dL with ADT correlates with improved survival in advanced prostate cancer (PCa) patients<sup>1</sup>
- T levels may rise castrate level (<50 ng/dL) between administrations, especially if a subsequent dose is delayed
- Current study evaluated the timeliness of LHRH administrations, subsequent rate of T breakthroughs, and the frequency of T and PSA tests prior to administrations in PCa patients

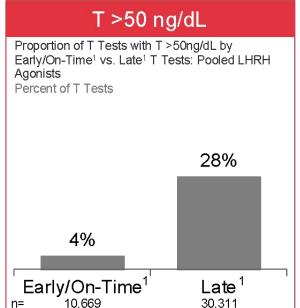
#### **Methods**

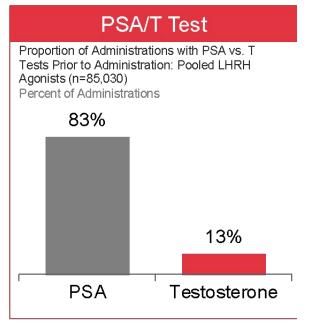
- A retrospective review of electronic medical records from 1/1/07-6/30/16 of 85,030 LHRH agonist administrations for PCa treatment
- Definition of late by formulations

Formulation (Month)	Late Definition (Day)
1	≥33
3	≥98
4	≥129
6	≥195

## Almost a Third of Administrations Were Late<sup>1</sup>, Which Increased Frequency of Ineffective Castration; T Levels Were Not Monitored as Frequently as PSA







#### DISCUSSION

Considering the presumed clinical benefits of suppressing T throughout ADT course, clinicians should administer treatments within approved dosing instructions, routinely monitor T levels, and prescribe treatments with proven efficacy through the dosing interval to maintain T<50 ng/dL