Pharmacokinetics of Abiraterone and Biochemically Active Steroidal Metabolites after a Single Dose of Abiraterone Acetate

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*Potential conflict of interest may exist. Refer to the ENDO 2017 Meeting App.

**LC-MS/MS Method**

Abiraterone and the metabolites were detected using an AB Sciex Qtrap 5500 mass analyzer coupled with a Shimadzu Nexera UPLC station. Electrospray ionization in positive mode was applied and the analytes were separated using a Zorbax Eclipse Plus C18 3.5µm column. After evaporation, the residue was reconstituted using 300µl 50%methanol. A 7-point calibration curve for all analytes was constructed, and six quality control samples were injected with the samples. The analytes were quantified using multiple reaction monitoring (MRM). The results were processed using Analyst®1.6 software.

**Separation of Abi and its Metabolites**

**Results**

Abiraterone and the metabolites were detected using an AB Sciex Qtrap 5500 mass analyzer coupled with a Shimadzu Nexera UPLC station. Electrospray ionization in positive mode was applied and the analytes were separated using a Zorbax Eclipse Plus C18 3.5µm column. After evaporation, the residue was reconstituted using 300µl 50%methanol. A 7-point calibration curve for all analytes was constructed, and six quality control samples were injected with the samples. The analytes were quantified using multiple reaction monitoring (MRM). The results were processed using Analyst®1.6 software.

**Conclusions**

- Abiraterone metabolite levels are highly variable in serum.
- All abiraterone steroidal metabolites are formed after a single dose of abiraterone acetate.

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**References**