

## T-755-P

**Effects of Icosapent Ethyl (Eicosapentaenoic Acid Ethyl Ester) on Pharmacokinetic Parameters of Rosiglitazone in Healthy Subjects**Rene Braeckman *Bedminster, NJ*; William Stirtan, Paresh N. Soni *Groton, CT*

**Background:** Icosapent ethyl (IPE; formerly AMR101) is a high-purity prescription form of eicosapentaenoic acid (EPA) ethyl ester approved in the United States as an adjunct to diet to reduce triglyceride levels in adults with severe ( $\geq 500$  mg/dL) hypertriglyceridemia. Candidates for triglyceride-lowering therapy include patients with type 2 diabetes mellitus who may be receiving rosiglitazone, a thiazolidinedione antidiabetic agent and cytochrome P450 (CYP) 2C8 substrate. The purpose of this study was to assess the effects of IPE on the pharmacokinetics (PK) of rosiglitazone. **Methods:** Subjects received a single 8-mg oral dose of rosiglitazone alone and with oral IPE 4 g/day in this open-label, crossover, drug-drug interaction study. Primary and secondary PK end points included area under the concentration-versus-time curve from time zero to infinity ( $AUC_{0-\infty}$ ; primary) and maximum plasma concentration ( $C_{max}$ ; secondary) for rosiglitazone with and without IPE. **Results:** Of the 30 patients enrolled, 28 completed the study. IPE 4 g/day at steady state did not significantly change the single-dose  $AUC_{0-\infty}$  or  $C_{max}$  of rosiglitazone at 8 mg. Least squares geometric mean ratios (90% confidence interval) for  $AUC_{0-\infty}$  and  $C_{max}$  of rosiglitazone given with IPE versus rosiglitazone alone were 0.90 (87.00-93.40) and 1.01 (92.02-109.9), respectively. No serious adverse events were reported and no subject discontinued this study due to an adverse event. **Conclusions:** At steady-state concentrations, IPE did not inhibit the metabolism of rosiglitazone, a CYP2C8 substrate. Co-administration of IPE and rosiglitazone was safe and well tolerated in this PK study of healthy adult subjects.