+ SIM 10, 20, 40 or 80; or PBO. Primary efficacy endpoint was % reduction from baseline to endpoint in direct LDL-C for pooled EZE + SIM vs pooled SIM alone.

Results: Table shows mean % change from baseline to

Treatment	Direct LDL-C	HDL-C	TG
PBO (n=70)	-1.3	+0.9	+2.4
EZE 10 mg (n=61)	-18.1	+5.1	~8.3
Pooled StM (n=263)	-36.1	+6.9	-16.6
Pooled EZE + SIM (n=274)	-49.9°	+9.3*	-24.1

*P≤0.03 for pooled EZE+SIM vs SIM

EZE + SIM significantly improved LDL-C. HDL-C and TG compared to SIM alone (P<0.01). EZE provided an added 13.8% LDL-C reduction, 2.4% HDL-C increase and 7.5% TG reduction compared to pooled SIM alone. EZE + SIM provided LDL-C reductions of 44-57%, TG reductions of 20-28% and HDL-C increases of 8-11% depending on the dose. EZE 10 mg + SIM 10 mg and SIM 80 mg alone each provided 44% LDL-C reduction. EZE + SIM was well tolerated, with a safety profile similar to PBO.

Conclusion: When co-administered with SIM, EZE provided significant incremental reductions in LDL-C and TG, as well as increases in HDL-C. The co-administration of EZE and SIM offers a highly efficacious new treatment approach to pts with hypercholesterolemia.

1084-91

Ezetimibe Co-Administered With Atorvastatin in 628 Patients With Primary Hypercholesterolemia

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Background: Efficacy and safety of ezetimibe (EZE) administered with atorvastatin (ATV) in pts with primary hypercholesterolemia were assessed in a Phase III, multicenter, randomized, double-blind, placebo-controlled study.

Methods: After dietary stabilization on a NCEP Step I or stricter diet, a 2-12-wk screening/washout period and a 4-wk, single-blind, PBO lead-in period, 628 pts with baseline LDL-C ≥145 to ≤250 mg/dl + TG ≤350 mg/dl were randomized to 1 of the following administered daily for 12 consecutive wks: EZE 10 mg; ATV 10, 20, 40 or 80 mg; EZE 10 mg + ATV 10, 20, 40 or 80 mg; or PBO. Primary efficacy endpoint was % reduction from baseline to endpoint in direct LDL-C for pooled EZE + ATV vs pooled ATV alone.

Results: EZE + ATV was well tolerated, with a safety profile similar to ATV alone and to PBO, Table shows mean % change from baseline to endpoint.

Treatment	Direct LDL-C	HDL-C	TG
PBO (n=60)	5.9	3.7	4.4
EZE 10 mg (n=65)	-18.4	4.2	-3.4
Pooled ATV (n=248)	-42.4	4.3	-21.5
Pooled EZE + ATV (n∞255)	-54.5*	7.3*	-29.5*

*P<0.01 for pooled EZE+ATV vs ATV

EZE + ATV significantly improved LDL-C, HDL-C and TG compared to ATV (*P*<0.01). EZE provided an added 12.1% LDL-C reduction, 3.0% HDL-C increase and an added 8.0% TG reduction vs pooled ATV. EZE + ATV provided LDL-C reductions of 50-60%. TG reductions of 26-35% and HDL increases of 4.6-9.2% depending on the dose. LDL-C reduction with EZE 10 mg + ATV 10 mg (50%) and ATV 80 mg alone (51%) was similar. Conclusion: When co-administered with ATV, EZE provided significant incremental reductions in LDL-C and TG and increases in HDL-C. Co-administration of EZE and ATV offers a highly efficacious new treatment option for pts with hypercholesterolemia.

1084-92

Ezetimibe Significantly Reduces Low-Density Lipoprotein Cholesterol in Homozygous Familial Hypercholesterolemia

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Background: Current pharmacological agents for treatment of homozygous familial hypercholesterolemia (HoFH) have limited efficacy. We evaluated the efficacy, safety and tolerability of ezetimibe (EZE), a novel selective cholesterol absorption inhibitor, in HoFH pts already taking aloryastatin (A) or simvastatin (S).

Methods: Fifty HoFH pts on diet and open-label 40 mg QD (A) or (S), with (n=25) or without (n=25) concomitant LDL apheresis, were randomized (double blind) to 1 of 3 daily 12-week treatments 1) A or S 80 mg, 2) EZE 10 mg + A or S 40 mg, or 3) EZE 10 mg + A or S 80 mg. The primary companison was mean % change in LDL-C from baseline to endpoint for the group receiving statins alone (Statin-80) vs the group receiving EZE + A or S at either dose (EZE+Statin-40/80). Mean % change in LDL-C for the group randomized to EZE + A or S 80 mg (EZE+Statin-80) was also compared to Statin-80.

Résults: The table shows least square mean LDL-C concentrations.

Treatment	LDL-C (mg/dl)		% Change	
	Baseline	Endpoint	(± SE)	
Statin 80 (n=17)	339	319	-6.7 ± 4.2	
EZE+Statin 40/80 (n=33)	313	247	-20.7 ± 3.2*	
EZE+Statin 80 (n=17)	273	196	-27.5 ± 3.5*	

^{*}P < 0.01 vs. Statin-80 group

Similar and significant LDL-C reductions were observed for the subset of pts who had a genotypic diagnosis of HoFH (n=32). No significant between-group differences were

observed for HDL-C or TG. EZE was well tolerated as determined by safety laboratory, adverse event, and drug discontinuation assessments.

Conclusion: EZE + A or S produced clinically important LDL-C lowering compared to best therapy with A and S in pts with HoFH. EZE provides a new, complementary pharmacological approach to this high-risk population.

1084-93

Does Cholesterol and/or Fat Intake Affect Plasma Lipid Efficacy of Ezetimibe?

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Objective: To assess effect of degree of dietary saturated fat and cholesterol restriction on efficacy of ezetimibe (EZE), a new selective cholesterol absorption inhibitor, in 1719 patients with primary hypercholesterolemia.

Methods: After 6-8 weeks instruction of NCEP Step I or stricter diet during the single-blind PBO lead-in, patients with plasma LDL-C 130-250 mg/dl and TG ≤350 mg/dl were randomized 3:1 to EZE 10 mg/d or PBO for 12 weeks in 2 identically designed Phase III, double-blind studies. Data from these 2 studies were pooled for analysis. Primary end-point was % reduction of direct LDL-C from baseline to endpoint. Diet compliance was assessed every 2-6 weeks at a centralized center by computer analysis of 3-day food-intake records. A RISCC (Ratio of Ingested Saturated Fat and Cholesterol over Calorles) score was used to quantitate all fat-related diet components and to compare diets between treatments. RISCC=(1.01[saturated fat in g] + 0.05[cholesterol in mg]) + (total Kcal/1000).

Results: Of 1,719 patients (831 men, 888 women; ages 18-86 y), 1288 were randomized to EZE and 431 to PBO. Baseline characteristics were comparable between groups. The % change (mean \pm SEM) in plasma lipid from baseline to endpoint was used to compare EZE and PBO patients in the 1st quartile (lowest) and 4th quartile (highest) of RISCC values (≤13, and ≥20) and dietary cholesterol (≤124, and ≥250 mg) at baseline. For EZE patients, % LDL-C reduction was -19 \pm 0.6 and -19 \pm 0.6 for patients in the 4th quartile of RISCC (n=353) or cholesterol (n=319), respectively, vs -16 \pm 0.6 and -17 \pm 0.6 for patients in the 1st quartile of RISCC (n=335) or cholesterol (n=300), respectively PBO, % LDL-C reduction was -1 \pm 1 and -0.1 \pm 1 for patients in the 4th quartile of RISCC (n=109) or cholesterol (n=95), respectively, vs -0.5 \pm 1 and 0.1 \pm 1 for patients in the 1st quartile of RISCC (n=114) or cholesterol (n=115), respectively. The % change LDL-C in the 1st and 4th quartiles was similar for EZE vs PBO.Conclusions: LDL-C lowering attributable to EZE for the lowest and highest quartiles of cholesterol of fat intake did not differ significantly.

1084-94

Atazanavir Plus Saquinavir Once Daily: Favorable Effects on Lipid Profiles in Patients Failing Prior Protease Inhibitor Therapy (Trial Al424-009)

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Background: Currently approved HIV-1 protease inhibitors (PIs) may increase risk for CV events by altering lipid metabolism. Atazanavir (BMS-232632) is a once-daily PI that rapidly and durably suppresses HIV RNA and increases CD4. Atazanavir does not increase total cholesterol (TC), low-density lipoprotein cholesterol (LDL), or triglyceride (TG) levels in antiretroviral-naïve subjects compared with prompt, marked, and sustained elevations with current PIs. Atazanavir and saquinavir have complementary resistance profiles and favorable PK interactions allowing for once-daily dosing of the combination. This protocol evaluated the safety, tolerability, and efficacy of dual PI therapy with atazanavir (400 or 600 mg qd)/saquinavir (1,200 mg qd) or ritonavir (400 mg bid)/saquinavir (400 mg bid) + 2 NRTis after virologic failure on a PI regimen.

Methods: Randomized, active-controlled, blinded study in 85 adults with HIV RNA 1,000-100,000 c/mL and CD4 \geq 100 cells/mm³.

Results: Wk 24, Observed Data

	Atazanavir/saquii	Ritonavir/saquinavir twice daily				
	400 mg (n=34)	600 mg (n=28)	400 mg (n=23)			
Median baseline, mg/dL (mean % change from baseline, n)						
TG	223 (-23, 15)	177 (-21, 13)	191 (90, 8)			
TC	181 (-1, 27)	199 (-9, 20)	202 (10, 13)			
Mean change from baseline (SE, n)						
HIV RNA (log ₁₀ c/mL)	-1.28 (0.20, 29)	-1.17 (0.20, 22)	-1.50 (0.31, 13)			
CD4 (cells/mm ³)	55 (17, 29)	67 (18, 22)	98 (25, 13)			

Updated results to wk 48 will be presented. **Conclusion**: In subjects failing a prior PI regimen, atazanavir/saquinavir lowered TC, LDL, and TG levels from baseline, whereas ritonavir/saquinavir produced substantial increases. Atazanavir/saquinavir was safe and well tolerated and showed significant antiviral effect at wk 24. The ability to improve serum lipid profiles in PI-experienced subjects suggests that atazanavir reduces risk factors for CV events in this population.