

3.3: Summary

A summary of the different pharmacological properties of lipid lowering agents is shown in Table 3.1.

Table 3.1: Summary of lipid lowering agents.

	Statins	Niacin	Ezetimibe	Fibrates	BAS
Pathway	<i>De novo</i> cholesterol synthesis	<i>De novo</i> lipid synthesis	Cholesterol absorption	Triglyceride clearance	Cholesterol clearance
Target	Inhibit HMG-CoA Reductase	Inhibits GPR109A	Inhibits NPC1L1-AP2 Cathrin interaction	Activates PPAR α	Binds bile acids
Functional Group	Di-hydroxy heptanoic acid	Carboxylic acid and pyridine	1,4-Diaryl- β -lactam	Isobutyrate	Anion exchange resin
Effect	Blocks cholesterol synthesis	Blocks TG breakdown	Blocks cholesterol absorption in the gut	Activates lipoprotein lipase	Prevents bile absorption
[Lipid] Effect	LDL decreases	LDL decreases HDL increases	LDL decreases	TG decreases HDL increases	LDL decreases

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