

* Niacin β

Niacin
↓
DFA + glycerol \rightarrow DAG DAG $\xrightarrow{\text{TG Synthesis}}$ TG Synthesis ↓

↓
Addition of TG to apo B polypeptide

↓ Large TG rich VLDL

↓ Translocation of apoB across ER membrane

Intracellular apo B degradation

↓ small dense LDL

↓ apo B containing lipoprotein; VLDL, LDL

↓ Atherosclerosis

↑ apo A-I concentration & reverse cholesterol transport

HDL apo A-I uptake/ removal

↓ HDL catabolism (R) \downarrow ATP synthase

Niacin

\rightarrow Niacin flush \rightarrow side of taking high doses of supplemental niacin.