Distribution of other Lipoproteins

- Step 1: Liver cells synthesize VLDLs:
 - for discharge into bloodstream
- Step 2: Lipoprotein lipase removes many triglycerides from VLDLs:
 - leaving IDLs
 - Triglycerides are broken down:
 - into fatty acids and monoglycerides
- Step 3: When IDLs reach liver:
 - additional triglycerides are removed
 - protein content of lipoprotein is altered
 - LDLs are created
 - LDLs are transported to peripheral tissues to deliver cholesterol
- Step 4: LDLs leave bloodstream through capillary pores:
 - or cross endothelium by vesicular transport
- Step 5: In peripheral tissues:

- LDLs are absorbed through receptor-madine endocytosis Amino acids and cholesterol ententies tuplasm

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Step 6: Cholesterol netrised

Step 7: Cholesterol reenters bloodstream:

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- is absorbed by HDLs and returned to liver
- Step 8: In the liver:
 - HDLs are absorbed
 - cholesterol is extracted
 - Recovered cholesterol is used:
 - in synthesis of LDLs
 - in excreted in bile salts

Step 9: Free HDLs are released into bloodstream:

- travel into peripheral tissues
- absorb additional cholesterol