

# Cholesterol Adjustment Factors

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Cholesterol adjustment factors can be used to estimate what an adult patient's cholesterol concentration was prior to being treated with cholesterol-lowering medication. Knowing this information can be useful for diagnosing lipid disorders such as Familial Hypercholesterolaemia.

## How to calculate cholesterol concentrations adjusting for cholesterol medication?

Adjusted Cholesterol or Triglyceride =

actual measurement x cholesterol adjustment factor for medication/dose

### Example:

A patient's LDL-Cholesterol is 3.6mmol/L on Atorvastatin 80mg

Adjusted LDL-Cholesterol =  $3.6 \times 2.150538 = 7.7\text{mmol/L}$

## References

1. Blasetto et al, Am J Cardiol 2003; 91:3-10
2. Schneck et al, Am J Cardiol 2003; 91:33-41
3. Jones et al, Clin Thera 2004; 26:1388-1399
4. Nicholls et al, Am J Cardiol 2010; 105:69-76
5. Ballantyne et al, Circulation 2003; 107:2409-2415
6. Ballantyne et al, Am J Cardiol 2004; 93: 1487-1494
7. Mckenney et al, Atherosclerosis 2007; 192:432-437
8. Kendrach & Kelly-Freeman, Ann Pharmacother 2004; 38:1286-1292

# Cholesterol Adjustment Factors

	Total Cholesterol	LDL-Cholesterol	Triglyceride
Atorvastatin 10mg	1.396648	1.618123	1.212121
Atorvastatin 20mg	1.477105	1.763668	1.344086
Atorvastatin 40mg	1.569859	1.937984	1.373626
Atorvastatin 80mg	1.672241	2.150538	1.526718
Rosuvastatin 5mg	1.416431	1.709402	1.300390
Rosuvastatin 10mg	1.49925	1.872659	1.283697
Rosuvastatin 20mg	1.592357	2.070393	1.225490
Rosuvastatin 40mg	1.697793	2.314815	1.345895
Rosuvastatin 80mg	1.818182	2.624672	1.245330
Simvastatin 10mg	1.333333	1.37741	1.102536
Simvastatin 20mg	1.449275	1.492537	1.145475
Simvastatin 40mg	1.470588	1.636661	1.153403
Simvastatin 80mg	1.582278	1.818182	1.164144
Ezetimibe 10mg	1.153403	1.236094	1.090513
Ezetimibe/simvastatin 10mg/10mg	1.512859	1.855288	1.356852
Ezetimibe/simvastatin 10mg/20mg	1.574803	2.008032	1.383126
Ezetimibe/simvastatin 10mg/40mg	1.680672	2.252252	1.470588
Ezetimibe/simvastatin 10mg/80mg	1.763668	2.463054	1.545595
Ezetimibe/atorvastatin 10mg/10mg	1.886792	2	1.449275
Ezetimibe/atorvastatin 10mg/20mg	1.923077	2.173913	1.428571
Ezetimibe/atorvastatin 10mg/40mg	1.818182	2.173913	1.515152
Ezetimibe/atorvastatin 10mg/80mg	2.083333	2.5	1.666667
Ezetimibe/rosuvastatin 10mg/10mg	1.934236	2.48139	1.40647
Ezetimibe/rosuvastatin 10mg/20mg	2.057613	2.739726	1.538462
Ezetimibe/rosuvastatin 10mg/40mg	2.040816	3.333333	1.538462
Pravastatin 10mg	1.172333	1.251564	1.090513
Pravastatin 20mg	1.207729	1.322751	1.082585
Pravastatin 40mg	1.273885	1.422475	1.153403
Other		1.43	