

## Framingham Goals of Lipid Therapy:

Many providers get various lipid concentrations and often do not understand how a given patient's lipid values relate to the rest of the population. Below are shown the population cut points from the Framingham Offspring Study. If a patient has an LDL-C of 100, he/she is in the 20<sup>th</sup> percentile of the population: i.e. 20% of people would have a better LDL-C and 80% would have a higher value. Typically patients in the bottom 20<sup>th</sup> percentile have a lower risk than those with values in the higher percentiles. The 20<sup>th</sup> percentile is usually the goal of therapy for high risk patients. The second percentile is the goal of therapy for very high risk patients.

Although a patient with an LDL-C of < 70 mg/dL would seem to be at goal, if the non-HDL-C, apoB or LDL-P are also not at the second percentile then residual risk may be present. Although it is relatively easy to achieve an LDL-C of 70, it is much more difficult to reduce apoB < 60 or LDL-P < 750.

### Framingham Offspring Study Percentiles

**n=3,367 (1,635 men; 1,732 women)**

Percentile	LDL-C (mg/dL)	Non- HDL-C (mg/dL)	LDL-P (nmol/L )	ApoB (mg/dL)
<b>2</b>	<b>70</b>	<b>83</b>	<b>720</b>	<b>54</b>
5	78	94	850	62
10	88	104	940	69
<b>20</b>	<b>100</b>	<b>119</b>	<b>1100</b>	<b>78</b>
30	111	132	1220	85
40	120	143	1330	91
<b>50</b>	<b>130</b>	<b>153</b>	<b>1440</b>	<b>97</b>
60	139	163	1540	103
70	149	175	1670	110
<b>80</b>	<b>160</b>	<b>187</b>	<b>1820</b>	<b>118</b>
90	176	205	2020	130
95	191	224	2210	140

Specimens were collected in 1988-1991 (exam cycle 4).  
Analysis was restricted to subjects with TG <400 mg/dL.  
Ethnic make-up was 99% Caucasian.

**High Risk Goal is the 20<sup>th</sup> percentile**

**Very High risk goal is the 2<sup>nd</sup> to the 5<sup>th</sup> Percentile**