

Supplementary table 1. Results from multiple linear regression fitting age and CMV response as covariates for CD8<sup>+</sup> T cell subset composition. Table shows the unstandardized coefficient, significance and 95% confidence interval from the output of SPSS software for each CD45RA/CD27 subset. Unit of age is equal to 1 year.

<i>CD45RA<sup>+</sup> CD27<sup>+</sup></i>	unstandardized coefficient	p-value	95.0% CI	
			lower limit	upper limit
age	-0.59	<.0001	-0.7	-0.49
CMV response	-15.62	<.0001	-21.46	-9.77

  

<i>CD45RA<sup>-</sup> CD27<sup>+</sup></i>	unstandardized coefficient	p-value	95.0% CI	
			lower limit	upper limit
age	-0.03	0.52	-0.12	0.06
CMV response	-6.18	<.01	-10.86	-1.49

  

<i>CD45RA<sup>-</sup> CD27<sup>-</sup></i>	unstandardized coefficient	p-value	95.0% CI	
			lower limit	upper limit
age	0.125	<.05	0.005	0.24
CMV response	9.05	< .01	2.58	15.53

  

<i>CD45RA<sup>+</sup> CD27<sup>-</sup></i>	unstandardized coefficient	p-value	95.0% CI	
			lower limit	upper limit
age	0.385	<.0001	0.27	0.5
CMV response	14.77	< .0001	8.43	21.11

Supplementary table 2. Statistical comparisons of percentage of CD8<sup>+</sup> T cell cytokine producing populations following overnight stimulation of PBMCs with anti-CD3 and IL-2. Results from Paired T-test.

	IFN	TNF	IL2/IFN	IL2/TNF	IFN/TNF	IL2/IFN/TNF
Young						
IL2	0.0089	0.0013	0.0365	ns	0.0223	ns
IFN	-	0.0124	0.0081	0.0085	0.0491	0.0124
TNF	-	-	0.0012	0.0012	ns	0.0015
IL2/IFN	-	-	-	ns	0.0220	0.0432
IL2/TNF	-	-	-	-	0.0219	ns
IFN/TNF	-	-	-	-	-	0.0229
Old						
IL2	0.0343	0.0001	ns	0.0250	0.0089	ns
IFN	-	ns	0.0252	0.0462	0.0157	ns
TNF	-	-	<0.0001	0.0002	0.0282	0.0002
IL2/IFN	-	-	-	0.0313	0.0081	ns
IL2/TNF	-	-	-	-	0.0096	ns
IFN/TNF	-	-	-	-	-	0.0079

Supplementary table 3. Statistical comparisons of telomere length of CD8<sup>+</sup> T cell cytokine producing populations following overnight stimulation of PBMCs with anti-CD3 and IL-2. Results from Paired T-test.

	IFN	TNF	IL2/IFN	IL2/TNF	IFN/TNF	IL2/IFN/TNF	Negative
Young							
IL2	0.012	0.004	0.011	ns	0.006	0.018	ns
IFN	-	ns	ns	ns	0.016	ns	.023
TNF	-	-	ns	0.026	ns	0.001	.006
IL2/IFN	-	-	-	ns	ns	ns	ns
IL2/TNF	-	-	-	-	0.028	ns	ns
IFN/TNF	-	-	-	-	-	0.003	.001
IL2/IFN/TNF	-	-	-	-	-	-	.034
Old							
IL2	ns	ns	0.028	0.013	ns	ns	ns
IFN	-	ns	ns	ns	ns	ns	ns
TNF	-	-	ns	ns	ns	ns	ns
IL2/IFN	-	-	-	ns	ns	ns	ns
IL2/TNF	-	-	-	-	ns	0.048	ns
IFN/TNF	-	-	-	-	-	ns	ns
IL2/IFN/TNF	-	-	-	-	-	-	ns

Supplementary table 4. Statistical comparisons of percentage of CD8<sup>+</sup> T cell cytokine producing populations following overnight stimulation of PBMCs with NLV peptide. Results from Wilcoxon Signed Rank Test.

	IFN	TNF	IL2/IFN	IL2/TNF	IFN/TNF	IL2/IFN/TNF
Young						
IL2	.043	.176	.018	.028	.128	.686
IFN	-	.612	.018	.018	.866	.018
TNF	-	-	.018	.018	.612	.018
IL2/IFN	-	-	-	.237	.028	.043
IL2/TNF	-	-	-	-	.018	.018
IFN/TNF	-	-	-	-	-	.018
Old						
IL2	.138	.080	.225	.893	.043	.176
IFN	-	.345	.043	.043	.345	.043
TNF	-	-	.043	.043	.225	.043
IL2/IFN	-	-	-	.893	.043	.866
IL2/TNF	-	-	-	-	.043	.500
IFN/TNF	-	-	-	-	-	.043

Supplementary table 5. Statistical comparisons of telomere length of CD8<sup>+</sup> T cell cytokine producing populations following overnight stimulation of PBMCs with NLV peptide. Results from Wilcoxon Signed Rank Test.

	IFN	TNF	IL2/IFN	IL2/TNF	IFN/TNF	IL2/IFN/TNF	Negative
Young							
IL2	ns	.028	.043	ns	.028	ns	ns
IFN	-	.028	ns	ns	.028	ns	ns
TNF	-	-	ns	ns	ns	ns	.028
IL2/IFN	-	-	-	ns	ns	ns	ns
IL2/TNF	-	-	-	-	ns	ns	ns
IFN/TNF	-	-	-	-	-	ns	.028
IL2/IFN/TNF	-	-	-	-	-	-	ns
Old							
IL2	ns	ns	ns	ns	ns	ns	ns
IFN	-	ns	ns	ns	.043	ns	.043
TNF	-	-	ns	ns	ns	ns	.043
IL2/IFN	-	-	-	ns	ns	ns	ns
IL2/TNF	-	-	-	-	ns	ns	-
IFN/TNF	-	-	-	-	-	ns	.043
IL2/IFN/TNF	-	-	-	-	-	-	ns

Supplementary Figure 1

