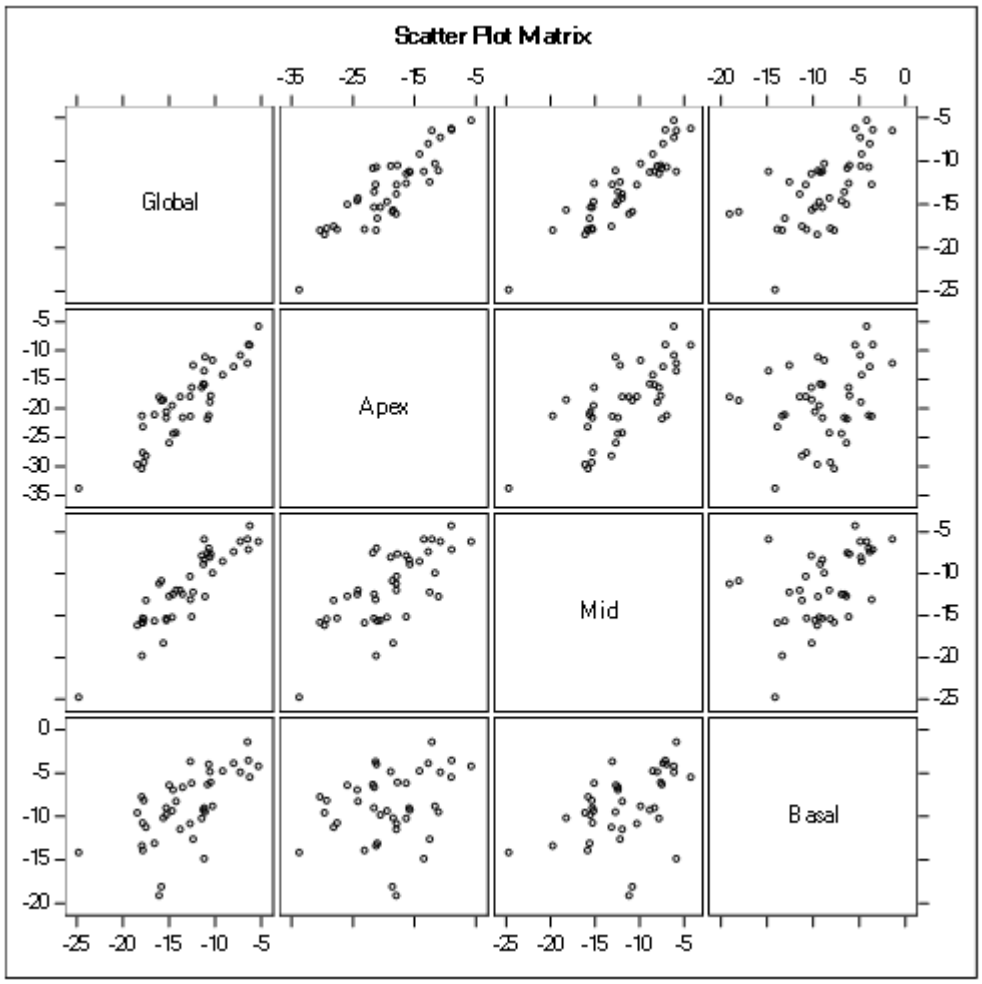
For PYP- participants, global longitudinal strain is significantly strongly correlated with apical, mid, and basal regions with Pearson correlation coefficient >0.6 and p value <.001. The apical region is significantly strongly associated with mid region, with correlation of 0.7 (p<.001) but is not significantly associated with the basal with small correlation coefficient as 0.28 and p value as 0.08 (Table s1 and S2). For PYP +, global longitudinal strain is significantly strongly correlated with apical and mid regions but not with the basal region with strong Pearson correlation coefficient >0.8 and p value <.001 for apex and mid, while correlation coefficient as 0.22 (p=0.32) for basal. Apical region is significantly associated with mid with medium Pearson correlation coefficient as 0.55 (p=0.009) but not basal with p value as 0.44. Mid is not significantly associated with basal with p-value of 0.92. basal is not statistically associated with global, apex, and mid with p value all >0.05 (Tables S3 and S4).

Supplemental Table 1 Pearson correlation coefficient for PYP- groups (Global, apex, mid, basal).

Pearson Correlation Coefficients, N = 41 Prob > |r| under H0: Rho=0				
	Global	**Apex**	**Mid**	**Basal**
Global	1.00000	0.87 <.0001	0.89 <.0001	0.64 <.0001
Apex	0.87 <.0001	1.00	0.71 <.0001	0.28 0.08
Mid	0.89 <.0001	0.71 <.0001	1.00	0.46 0.003
Basal	0.64 <.0001	0.28 0.08	0.46 0.003	1.00

Supplemental Table 2 - Matrix scatter plot (PYP-).



Supplemental Table 3 Pearson correlation coefficient for PYP+ groups (Global, apex, mid, basal).

Pearson Correlation Coefficients, N = 22 Prob > |r| under H0: Rho=0				
	Global	**Apex**	**Mid**	**Basal**
Global	1.00	0.81 <.0001	0.84 <.0001	0.22 0.32
Apex	0.81 <.0001	1.00	0.55 0.009	-0.17 0.44
Mid	0.84 <.0001	0.55 0.009	1.00	-0.02 0.92
Basal	0.22 0.32	-0.17 0.44	-0.02 0.92	1.00

Supplemental Table 4 matrix scatter plot (PYP+).