

**Supplemental Digital Content Table 1: Baseline characteristics of non-Sjogren's syndrome DREAM® Study participants with or without other autoimmune disease**

<b>Baseline Characteristics</b>	<b>Non-SS group without autoimmune disease* (n=352)</b>	<b>Autoimmune disease group (not SS)** (N=66)</b>	<b>P-value</b>
Age (years): Mean (SD)	58.8 (13.6)	60.4 (11.7)	0.36
Gender: Male (%)	76 (22%)	11 (17%)	0.41
Race			0.04
Caucasian	274 (78%)	42 (64%)	
African-American	39 (11%)	14 (21%)	
Asian	13 (4%)	2 (3%)	
American Indian or Alaskan Native	2 (1%)	1 (2%)	
Mixed	4 (1%)	3 (5%)	
Unknown	20 (6%)	4 (6%)	
OSDI score: mean (SD)	41.4 (15.1)	43.2 (17.0)	0.39
Tear Break-up Time (seconds): mean (SD) <sup>†</sup>	2.7 (1.4)	2.4 (1.1)	0.08
Schirmer test (mm): mean (SD) <sup>†</sup>	8.4 (6.3)	7.4 (6.2)	0.22
Staining of cornea: mean (SD) <sup>†</sup>	4.2 (2.9)	4.9 (3.3)	0.11
Staining of conjunctiva: mean (SD) <sup>†</sup>	3.2 (1.4)	3.4 (1.6)	0.22
Use of artificial tears or gel (times per day)			0.10
0	80 (23%)	14 (21%)	
1-2	160 (45%)	21 (32%)	
3-4	65 (19%)	21 (32%)	
5-10	32 (9%)	6 (9%)	
Greater than 10	15 (4%)	4 (6%)	
Regular use of lubricating ointment (%)	29 (8%)	15 (23%)	0.002
Ever used steroid eye drops or ointment (%)	74 (21%)	15 (23%)	0.74
Ongoing rheumatoid arthritis (%)	0 (0%)	35 (53%)	<0.0001

\* Non-SS group without autoimmune disease: Participants without a history of SS or other autoimmune disease and also negative for SSA or SSB, or not positive for both RF and ANA

\*\* Autoimmune disease group (not SS): Participants with a history of autoimmune disease but not SS

<sup>†</sup>From the worse eye of a specific ocular dry eye measurement.

**Supplemental Digital Content Table 2: Antibody testing results of non-Sjogren's syndrome DREAM® Study participants by history of other autoimmune disease**

<b>Baseline Antibodies</b>	<b>Non-SS group without autoimmune disease* (n=352)</b>	<b>Autoimmune disease without SS** (N=66)</b>	<b>P-value***</b>
<b>Traditional SS antibodies:</b>			
SS-A(Ro) >25 EU/ml	0 (0%)	6 (9%)	
SS-B(La) >25 EU/ml	0 (0%)	3 (5%)	
Positive tests for SS-A(Ro) and SS-B(La)			
0	352 (100%)	59(89%)	
1	0 (0%)	5 (8%)	
2	0 (0%)	2 (3%)	
Anti-nuclear antibody ≥1:320 <sup>§</sup>	13 (4%)	8 (12%)	
Rheumatoid factor: any positive <sup>§</sup>	81 (23%)	20 (30%)	
Positive tests for traditional antibodies			
0	258 (73%)	42 (64%)	
1	94 (27%)	16 (24%)	
2	0 (0%)	5 (8%)	
3	0 (0%)	1 (2%)	
4	0 (0%)	2 (3%)	
<b>Novel SS antibodies<sup>§</sup>:</b>			
Salivary protein 1 (SP-1): any positive	65 (19%)	15 (23%)	0.40
Carbonic anhydrase VI (CA VI): any positive	53 (15%)	17 (25%)	0.047
Parotid specific protein (PSP): any positive	33 (9%)	12 (18%)	0.049
Positive in any novel antibody	107 (31%)	27 (41%)	0.11
Positive tests for novel antibodies			
0	244 (69%)	39 (59%)	0.02 <sup>†</sup>
1	66 (19%)	13 (20%)	
2	38 (11%)	11 (17%)	
3	3 (1%)	3 (5%)	

\* Non-SS group without autoimmune disease: Participants without a history of SS or other autoimmune disease and also negative for SSA or SSB, or not positive for both RF and ANA

\*\*Autoimmune disease group (without SS): Participants with a history of autoimmune disease but not SS

\*\*\*No p-values provided for traditional SS antibodies as these values were used to define the non-SS without autoimmune disease group.

<sup>†</sup> For test of linear trend.

\*One participant without novel antibody results was excluded.

**Supplemental Digital Content Table 3: Correlation between the number of traditional antibody positive versus the number of novel antibody positive participants in the DREAM® Study**

Number of novel antibodies positive	Number of traditional antibodies positive				
	0	1	2	3	4
0	222 (71%)	81 (61%)	14 (52%)	3 (33%)	5 (42%)
1	61 (20%)	25 (19%)	5 (19%)	5 (56%)	6 (50%)
2	27 (9%)	21 (16%)	7 (26%)	1 (11%)	0 (0%)
3	2 (1%)	5 (4%)	1 (4%)	0 (0%)	1 (8%)
<b>Pearson Correlation coefficient = 0.17, p=0.0002</b>					

\*Two participants without novel antibody results were excluded.

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