

**Supplementary Table I.** Volumes of major salivary glands in patients with primary Sjögren's syndrome and idiopathic sicca syndrome.

	pSS (n=94)	Idiopathic sicca syndrome (n=44)	<i>p</i> value
Mean volume of parotid glands	39.8 (11.4)	43.2 (13.1)	0.121
- Volume of left parotid gland	41.4 (13.4)	44.6 (15.2)	0.243
- Volume Right parotid gland	38.2 (12.3)	42.0 (13.0)	0.097
Mean volume of submandibular glands	6.6 (3.0)	7.4 (2.6)	0.124
- Volume of left submandibular gland	6.7 (2.8)	7.3 (2.6)	0.186
- Volume of right submandibular gland	6.6 (3.9)	7.5 (3.2)	0.159

The volume of salivary gland is calculated as (longitudinal diameter (cm) x transverse diameter (cm) x sagittal diameter (cm) x 0.5 and expressed in ml. Data are mean (SD). pSS: primary Sjögren's syndrome.

**Supplementary Table II.** Grades of power Doppler ultrasound in patients with primary Sjögren's syndrome and idiopathic sicca syndrome.

	pSS (n=94)	Idiopathic sicca syndrome (n=44)	<i>p</i> value
Total of bilateral parotid glands	2 (3)	2 (3)	0.258
Left parotid gland	1 (2)	1 (1)	0.355
Right parotid gland	1 (1)	1 (1)	0.587
Total of bilateral submandibular glands	2 (3)	2 (3)	0.051
Left submandibular gland	1 (2)	1 (2)	0.151
Right submandibular gland	1 (2)	1 (2)	0.170
Total of four glands	3.5 (5)	4.5 (4)	0.313

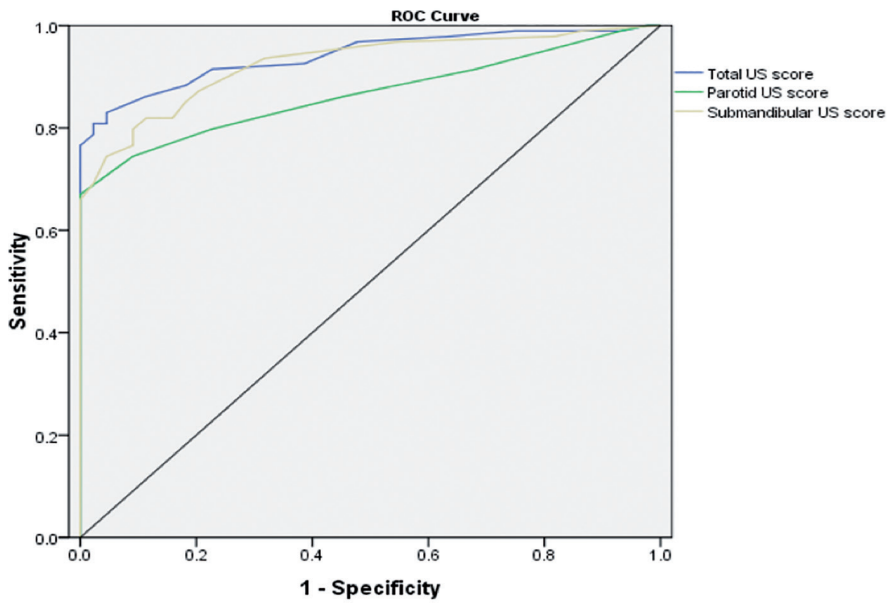
Data are median (IQR). pSS: primary Sjögren's syndrome.

**Supplementary Table III.** Correlation between SGUS score and various parameters in patients with primary Sjögren's syndrome.

	Spearman's rank test		Spearman partial correlation*	
	<i>r</i>	<i>p</i> value	<i>R</i>	<i>p</i> value
Age	0.061	0.560		
Duration of sicca symptoms	0.138	0.186		
Unstimulated salivary flow rate	-0.578	<b>&lt;0.001</b>	-0.504	<b>&lt;0.001</b>
RF	0.370	<b>&lt;0.001</b>	0.258	<b>0.017</b>
IgG	0.242	<b>&lt;0.022</b>	0.332	<b>0.002</b>
ESSDAI	-0.065	0.532	-0.171	0.116
SSDDI	-0.010	0.924	0.044	0.689
Average volume of bilateral PGs	-0.180	0.083	-0.180	0.097
Average volume of bilateral SGs	-0.157	0.131	-0.042	0.702
Total PDS sum scores of four glands	-0.301	<b>0.003</b>	-0.293	<b>0.005</b>
PDS sum scores of bilateral PGs	-0.163	1.116	-0.177	0.103
PDS sum scores of bilateral SGs	-0.369	<b>&lt;0.001</b>	-0.367	<b>&lt;0.001</b>

\*Adjusted for age, disease duration, and sex.

RF: rheumatoid factor; ESSDAI: European league against rheumatism; Sjögren's syndrome disease activity SSDDI: Sjögren's syndrome disease damage index; PDS: power Doppler signal; PG: parotid gland; SG: submandibular gland.



**Supplementary Fig. 1.** Diagnostic accuracy of the salivary gland ultrasound scoring method. Receiver operating characteristic (ROC) curves show the diagnostic accuracy of the salivary gland ultrasound scoring method. The sum of all four glands produced the highest area under the curve (AUC) (0.941). The best cut-off value for bilateral parotid, bilateral submandibular, and the sum of all four glands was 6, 8, and 14, respectively.