

Supplementary

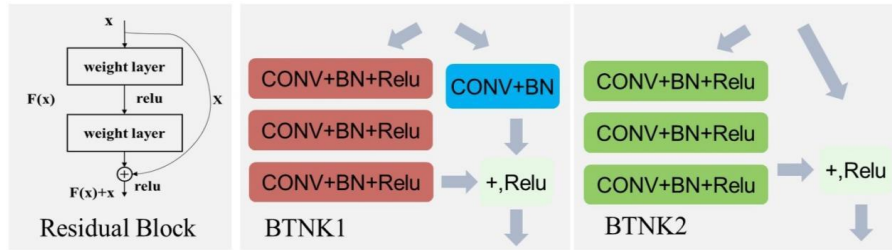


Figure S1. The residual module of the ResNet50 model.

Table S1. Univariate and multivariate analysis of symptoms factors in PLGC screening.

Variable	Total (N = 1995) No. (%)	Non-PLGC (N = 1824) No. (%)	PLGC (N = 171) No. (%)	P value*	Adjusted OR (95% Ci) †	P value#
Symptoms Factors						
Xerostomia				5.9 X 10 ⁻⁶		
Yes	642(0.32)	560(0.31)	82(0.48)		2.07([1.41,3.04])	1.9 X 10 ⁻⁴
No	1353(0.68)	1264(0.69)	89(0.52)			
Bitter Taste				2.7 X 10 ⁻²		
Yes	412(0.21)	365(0.20)	47(0.27)		1.54([1.01,2.36])	4.7 X 10 ⁻²
No	1583(0.79)	1459(0.80)	124(0.73)			
Belching				2.7 X 10 ⁻²		
Yes	518(0.26)	461(0.25)	57(0.33)		1.72([1.15,2.56])	7.9 X 10 ⁻³
No	1477(0.74)	1363(0.75)	114(0.67)			

P value* refer to the univariate analysis. P value# refer to the multivariate analysis (with adjustment for gender and age).

†Variables without significance (p>0.05) are not shown.

Table S2. Univariate analysis of tongue diagnostic and symptoms factors in PLGC screening.

Variable	Total (N = 1995) No. (%)	Non-PLGC (N = 1824) No. (%)	PLGC (N = 171) No. (%)	P value	OR (95% Ci)
Tongue Diagnostic Labels					
Teeth Marks				0.49	
Yes	347(0.17)	321(0.18)	26(0.15)		0.84([0.54,1.30])
No	1648(0.83)	1503(0.82)	145(0.85)		
Spotted				0.51	
Yes	29(0.01))	28(0.02)	1(0.01)		0.38([0.06,2.58])
No	1966(0.99)	1796(0.98)	170(0.99)		
Symptoms Factors					
Stomach Dull Pain				0.17	
Yes	273(0.14)	256(0.14)	17(0.10)		0.68([0.40,1.13])
No	1722(0.86)	1568(0.86)	154(0.90)		
Constipated				0.20	

Yes	104(0.05)	91(0.05)	13(0.08)		1.57([0.86,2.85])
No	1891(0.95)	1733(0.95)	158(0.92)		
Stomach Bloating				0.33	
Yes	1491(0.75)	1369(0.75)	122(0.71)		0.83([0.58,1.17])
No	504(0.25)	455(0.25)	49(0.29)		
Belching				0.38	
Yes	1108(0.56)	1019(0.56)	89(0.52)		0.86([0.63,1.17])
No	887(0.44)	805(0.44)	82(0.48)		
Loose Stools				0.60	
Yes	53(0.03)	50(0.03)	3(0.02)		0.63([0.20,2.03])
No	1942(0.97)	1774(0.97)	168(0.98)		
Stomach Stinging				0.60	
Yes	66(0.03)	62(0.03)	4(0.02)		0.68([0.25,1.88])
No	1929(0.97)	1762(0.97)	167(0.98)		
Gastric Cardialgia				1.0	
Yes	38(0.02)	35(0.02)	3(0.02)		0.91([0.28,3.00])
No	1957(0.98)	1789(0.98)	168(0.98)		



Figure S2. Correlation analysis of TDL and symptoms.

Table S3. The univariate analysis of tongue diagnostic labels in risk prediction of PLGC.

Characteristics	Pro (26) Num (Rate)	non-Pro (69) Num (Rate)	OR	P value
Coating (Yellow)	10(0.38)	6(0.09)	6.35	2.1e-3
Greasy	6(0.23)	15(0.22)	1.04	1.00
Fissure	5(0.19)	8(0.12)	1.76	0.56
Coating (Thick)	8(0.31)	11(0.16)	2.26	0.21
Dark	3(0.15)	7(0.16)	0.96	1.00

Figure S3. The operation interface of the App.

