

Supplementary Table S1. Results of Levene test

	Levene Statistics	<i>P</i> -value
Question 1	0.378	0.685
Question 2	0.011	0.989
Question 3	2.304	0.101
Question 4	2.821	0.061
Question 5	1.022	0.361
Question 6	3.404	0.034
Question 7	7.463	0.001
Question 8	1.148	0.318
Question 9	4.260	0.015
Question 10	2.719	0.067
Question 11	0.601	0.549
Question 12	1.729	0.179
Question 13	0.178	0.837
Question 14	2.447	0.088
Question 15	1.845	0.159
Question 16	1.056	0.349
Question 17	0.986	0.374
Question 18	3.110	0.046
Question 19	0.092	0.912
Question 20	0.665	0.515

Supplementary Table S2: Exploratory factor analysis of the original survey used in this study.

Item	Factor 1 (Motivation) Loading	Factor 2 (WTC) Loading
1. I want to speak English with foreign visitors to Japan.	-0.79	-0.43
2. I want to speak English for traveling overseas.	-0.62	-0.45
3. I want to be part of the global community of people who can communicate in English.	-0.79	-0.42
4. I think knowing English can help me understand the world better.	-0.51	-0.50
5. I want to be good at English so I can read articles in international medical journals.	-0.75	-0.21
6. In the future, I want to publish my research in international medical journals.	-0.90	0.08

7.	In the future I want to make a presentation at an international conference in English.	-0.89	0.00
8.	In the future, I want to speak to foreign patients in English.	-0.83	-0.31
9.	In the future, I want to work in another country.	-0.95	-0.13
10.	In the future, I want to study abroad.	-0.91	-0.14
11.	In English class, I like to speak English in pairs.	-0.77	0.23
12.	In English class, I like to speak English in small groups.	-0.74	0.27
13.	In English class, I like to give presentations.	-0.85	0.47
14.	In English class, I like to raise my hand to answer the teacher's questions.	-0.72	0.53
15.	I like to talk to my English teacher after class.	-0.86	0.31
16.	I like to talk to international students on campus in English.	-1.03	0.16
17.	I like to participate in international events and activities offered by the university.	-1.01	0.15
18.	I like to interact in English on social media.	-0.94	0.13
19.	I like to help foreigners I meet outside of the university.	-0.82	-0.05
20.	I like to write English e-mails or texts.	-0.97	0.18
