

Supplementary S1. RAdiator BioMedical Admissions Test 2021 Survey Structure

- 1) Demographic Data
 - a. Education Level (Middle School, Grade 10, Grade 11, Grade 12, and Retaking Admission)
 - b. Province of Residence in Thailand
 - c. Intended Round of TCAS (Round 1 to 5)^a
 - d. Most Desired Faculty^a
- 2) Self-evaluation of Barriers involved in the preparation of the BMAT (experienced/did not experience)
 - a. Financial barriers to facilitating BMAT preparation and the test fees.
 - b. Geographical barriers to accessing BMAT tutoring institutes or other preferred study materials.
 - c. Time constraints in investing time to learn the BMAT materials, e.g., while preparing for other TCAS rounds requiring other test scores.
 - d. Language barriers to comprehending the learning resources and understanding test content.
 - e. Information barriers to test details and learning resources.
- 3) BMAT 2021 Scores (optional)
 - a. Section One (1 to 9)
 - b. Section Two (1 to 9)
 - c. Section Three Quality of Content (1 to 5)
 - d. Section Three Quality of English (A, B, C, D, E)

^a Participants that did not intend to register for round 1 or did not intend to apply to medical or dental schools were excluded from data analysis.

Supplementary S2. Prevalence of the Barriers in Participants

Barrier Experienced	No. (%)			P Value
	Non-BMR (n = 90)	BMR (n = 114)	Total (N = 204)	
Financial	61 (67.8%)	67 (58.8%)	128 (62.7%)	.187
Geographical	61 (67.8%)	58 (50.9%)	119 (58.3%)	.015
Time	72 (80.0%)	83 (72.8%)	155 (76.0%)	.232
Language	72 (80.0%)	71 (62.3%)	143 (70.1%)	.006
Information	67 (74.4%)	82 (71.9%)	149 (73.0%)	.688
At least one	88 (97.8%)	101 (88.6%)	189 (92.6%)	.013

Abbreviation: BMR, Bangkok Metropolitan Region.

Supplementary S3. Spearman's Correlations Between Each Barrier

Variable	Spearman's Correlations				
	Financial	Geographical	Time Constraints	Language	Information
Financial	—	NA	NA	NA	NA
Geographical	0.418	—	NA	NA	NA
Time Constraints	0.255	0.433	—	NA	NA
Language	0.405	0.425	0.335	—	NA
Information	0.469	0.360	0.486	0.424	—

Abbreviation: NA, not applicable.

P value < .001 for all correlation.

Supplementary S4. Odds Ratio of Passing the Minimum BioMedical Admissions Test Score Requirement

Variable		OR (95% CI)	P Value
Pass	Odds ratio	0.400 (0.175-0.913)	.030
	Fisher's exact test	0.403 (0.159-0.978)	

Supplementary S5. Differences in BioMedical Admissions Test Scores Between Having and Not Having Each Type of Barriers

