

Supplementary Information: Cohort and dataset

Study dataset

Table 7: Summary statistics of this study’s cohort dataset, compared with state of the art references on menstrual health studies through mobile apps.

Variable	This cohort	Cohort in (17)	Cohort in (65)
Number of users	378,694 (100.00%)	124,646 (32.92%)	212,967 (56.24%)
Number of observations	117,014,597 (100.00%)	NA	7,496,316 (6.41%)
Number of days of observation	34,056,343 (100.00%)	NA	33,675,453 (98.88%)
Number of cycles	4,881,697 (100.00%)	612,613 (12.55%)	2,732,424 (55.97%)

Table 8: High-level characteristics for this study’s cohort dataset, compared with state of the art references on menstrual health studies through mobile apps.

Variable	Full cohort		Cohort in (17)		Cohort in (65)	
	Mean \pm sd	Median	Mean \pm sd	Median	Mean \pm sd	Median
Age	25.49 \pm 3.66	25	30.3	NA	30 \pm 6	NA
Number of cycles	12.89 \pm 9.11	11.00	8.6	NA	12.83 (NA)	NA
Cycle length	29.73 \pm 5.73	29.00	29.3 \pm 5.2	NA	NA	28
Period length	4.08 \pm 1.76	4.00	4.0 \pm 1.5	NA	NA	NA

User demographics

Table 9: Per-age number of users and cycles for the full cohort, as well as for the consistently not highly variable and consistently highly variable user groups.

Age	Full cohort		Consistently not highly variable		Consistently highly variable	
	Number users	Number cycles	Number users	Number cycles	Number users	Number cycles
21	71,511	557,083	65,520	526,413	5,991	30,670
22	36,723	500,736	33,338	478,394	3,385	22,342
23	33,943	466,999	30,984	447,498	2,959	19,501
24	32,225	442,053	29,529	424,706	2,696	17,347
25	30,651	422,465	28,191	406,519	2,460	15,946
26	29,377	402,905	27,066	388,306	2,311	14,599
27	27,757	380,662	25,802	368,043	1,955	12,619
28	25,257	353,535	23,518	342,245	1,739	11,290
29	22,991	325,875	21,535	316,637	1,456	9,238
30	20,744	297,814	19,462	289,725	1,282	8,089
31	18,424	269,125	17,358	262,045	1,066	7,080
32	16,444	244,483	15,521	238,957	923	5,526
33	12,647	217,962	11,782	212,206	865	5,756

Table 10: Per-country user count in the full cohort, as well as for the consistently not highly variable and consistently highly variable user groups.

Country	Full cohort	Consistently not highly variable	Consistently highly variable
United States	97,955	6,911	91,044
United Kingdom	32,676	2,486	30,190
Mexico	32,155	3,102	29,053
Brazil	27,275	2,535	24,740
Germany	21,538	1,360	20,178
France	19,106	1,371	17,735
China	16,529	1,435	15,094
Canada	15,507	963	14,544
Australia	14,211	1,103	13,108
Spain	13,574	804	12,770
Italy	12,775	685	12,090
Japan	8,716	692	8,024
Denmark	7,520	580	6,940
Russia	7,203	396	6,807
Taiwan	5,192	538	4,654
Colombia	5,024	475	4,549
India	3,976	424	3,552
Switzerland	3,380	216	3,164
Sweden	3,190	167	3,023
Philippines	2,876	346	2,530
Argentina	2,783	211	2,572
Hong Kong	2,706	266	2,440
Singapore	2,635	220	2,415
South Korea	1,910	205	1,705
New Zealand	1,902	171	1,731
Peru	1,897	205	1,692
Netherlands	1,832	135	1,697
Austria	1,512	117	1,395
Portugal	1,257	110	1,147
Indonesia	1,187	96	1,091
Malaysia	1,127	104	1,023
Ireland	1,115	84	1,031
Chile	1,080	100	980
Ecuador	1,041	105	936
Turkey	835	78	757
Poland	710	43	667
Venezuela	690	51	639
Finland	482	44	438
Belgium	389	38	351
Saudi Arabia	387	27	360
Ukraine	382	29	353
Vietnam	299	42	257
Guatemala	82	12	70
South Africa	76	6	70

Cycle-statistics per user age

Table 11: Per-age average number of cycles per user for the full cohort, as well as for the consistently not highly variable and consistently highly variable user groups.

Age	Full cohort		Consistently not highly variable		Consistently highly variable	
	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median
21	7.79 \pm 3.88 (1.00,14.00)	8.00	8.03 \pm 3.88 (1.00,14.00)	8.00	5.12 \pm 2.63 (1.00,11.00)	5.00
22	7.74 \pm 3.92 (1.00,14.00)	8.00	7.97 \pm 3.92 (1.00,14.00)	8.00	4.77 \pm 2.52 (1.00,11.00)	4.00
23	7.77 \pm 3.94 (1.00,14.00)	8.00	8.00 \pm 3.93 (1.00,14.00)	8.00	4.73 \pm 2.48 (1.00,10.00)	4.00
24	7.78 \pm 3.96 (1.00,14.00)	8.00	7.99 \pm 3.96 (1.00,14.00)	8.00	4.74 \pm 2.46 (1.00,10.00)	4.00
25	7.82 \pm 3.97 (1.00,14.00)	8.00	8.03 \pm 3.96 (1.00,14.00)	8.00	4.71 \pm 2.47 (1.00,10.00)	4.00
26	7.85 \pm 3.99 (1.00,14.00)	8.00	8.05 \pm 3.98 (1.00,14.00)	8.00	4.68 \pm 2.40 (1.00,10.00)	4.00
27	7.86 \pm 4.02 (1.00,14.00)	8.00	8.05 \pm 4.02 (1.00,14.00)	8.00	4.68 \pm 2.48 (1.00,10.00)	4.00
28	7.93 \pm 4.03 (1.00,14.00)	8.00	8.11 \pm 4.03 (1.00,14.00)	8.00	4.70 \pm 2.43 (1.00,10.00)	4.00
29	8.00 \pm 4.06 (1.00,14.00)	8.00	8.18 \pm 4.05 (1.00,14.00)	8.00	4.61 \pm 2.41 (1.00,10.00)	4.00
30	8.08 \pm 4.09 (1.00,15.00)	8.00	8.26 \pm 4.08 (1.00,15.00)	9.00	4.60 \pm 2.36 (1.00,10.00)	4.00
31	8.13 \pm 4.11 (1.00,15.00)	8.00	8.28 \pm 4.11 (1.00,15.00)	9.00	4.81 \pm 2.42 (1.00,10.00)	4.00
32	8.23 \pm 4.15 (1.00,15.00)	8.00	8.39 \pm 4.13 (1.00,15.00)	9.00	4.56 \pm 2.46 (1.00,10.00)	4.00
33	8.85 \pm 3.85 (3.00,15.00)	9.00	9.05 \pm 3.80 (3.00,15.00)	9.00	4.88 \pm 2.25 (2.00,10.00)	4.00

Table 12: Per-age average cycle length per user for the full cohort, as well as for the consistently not highly variable and consistently highly variable user groups.

Age	Full cohort		Consistently not highly variable		Consistently highly variable	
	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median
21	30.24 \pm 6.23 (20.00,45.00)	29.00	29.86 \pm 5.25 (21.00,42.00)	29.00	36.83 \pm 13.66 (13.00,69.00)	34.00
22	30.16 \pm 6.02 (20.00,44.00)	29.00	29.85 \pm 5.20 (21.00,42.00)	29.00	36.82 \pm 13.67 (13.00,69.00)	34.00
23	30.10 \pm 5.95 (21.00,44.00)	29.00	29.81 \pm 5.17 (21.00,42.00)	29.00	36.88 \pm 13.67 (13.00,69.00)	34.00
24	30.03 \pm 5.84 (21.00,44.00)	29.00	29.74 \pm 5.09 (21.00,42.00)	29.00	36.96 \pm 13.62 (13.00,68.00)	34.00
25	29.95 \pm 5.81 (21.00,44.00)	29.00	29.66 \pm 5.06 (21.00,42.00)	29.00	37.14 \pm 13.76 (13.00,69.00)	34.00
26	29.85 \pm 5.74 (21.00,44.00)	29.00	29.58 \pm 5.00 (22.00,41.00)	29.00	37.25 \pm 13.76 (13.00,69.00)	35.00
27	29.71 \pm 5.65 (21.00,43.00)	29.00	29.44 \pm 4.92 (22.00,41.00)	29.00	37.38 \pm 13.92 (13.00,71.00)	35.00
28	29.57 \pm 5.56 (22.00,43.00)	29.00	29.32 \pm 4.88 (22.00,41.00)	29.00	37.27 \pm 13.60 (13.00,69.00)	35.00
29	29.42 \pm 5.45 (22.00,42.00)	29.00	29.18 \pm 4.80 (22.00,41.00)	28.00	37.34 \pm 13.99 (13.00,71.00)	34.00
30	29.24 \pm 5.35 (22.00,42.00)	28.00	29.01 \pm 4.71 (22.00,40.00)	28.00	37.37 \pm 13.81 (14.00,70.00)	35.00
31	29.06 \pm 5.23 (22.00,42.00)	28.00	28.84 \pm 4.62 (22.00,40.00)	28.00	37.21 \pm 13.45 (13.00,67.00)	35.00
32	28.85 \pm 5.08 (22.00,41.00)	28.00	28.66 \pm 4.53 (22.00,39.00)	28.00	37.10 \pm 13.71 (14.00,68.00)	34.00
33	28.66 \pm 5.05 (22.00,40.00)	28.00	28.45 \pm 4.39 (22.00,39.00)	28.00	36.57 \pm 13.74 (13.00,70.00)	33.00

Table 13: Per-age average period length per user for the full cohort, as well as for the consistently not highly variable and consistently highly variable user groups.

Age	Full cohort		Consistently not highly variable		Consistently highly variable	
	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median
21	4.18 \pm 1.74 (1.00,7.00)	4.00	4.18 \pm 1.70 (1.00,7.00)	4.00	4.23 \pm 2.33 (1.00,8.00)	4.00
22	4.17 \pm 1.76 (1.00,7.00)	4.00	4.16 \pm 1.71 (1.00,7.00)	4.00	4.36 \pm 2.59 (1.00,9.00)	4.00
23	4.14 \pm 1.76 (1.00,7.00)	4.00	4.13 \pm 1.72 (1.00,7.00)	4.00	4.29 \pm 2.55 (1.00,9.00)	4.00
24	4.12 \pm 1.75 (1.00,7.00)	4.00	4.12 \pm 1.71 (1.00,7.00)	4.00	4.32 \pm 2.55 (1.00,9.00)	4.00
25	4.11 \pm 1.75 (1.00,7.00)	4.00	4.10 \pm 1.71 (1.00,7.00)	4.00	4.32 \pm 2.53 (1.00,9.00)	4.00
26	4.09 \pm 1.77 (1.00,7.00)	4.00	4.08 \pm 1.73 (1.00,7.00)	4.00	4.34 \pm 2.62 (1.00,9.00)	4.00
27	4.06 \pm 1.75 (1.00,7.00)	4.00	4.05 \pm 1.73 (1.00,7.00)	4.00	4.34 \pm 2.39 (1.00,9.00)	4.00
28	4.04 \pm 1.75 (1.00,7.00)	4.00	4.03 \pm 1.72 (1.00,7.00)	4.00	4.28 \pm 2.57 (1.00,9.00)	4.00
29	4.01 \pm 1.76 (1.00,7.00)	4.00	4.00 \pm 1.73 (1.00,7.00)	4.00	4.22 \pm 2.61 (1.00,9.00)	4.00
30	3.99 \pm 1.77 (1.00,7.00)	4.00	3.98 \pm 1.72 (1.00,7.00)	4.00	4.28 \pm 2.88 (1.00,10.00)	4.00
31	3.97 \pm 1.77 (1.00,7.00)	4.00	3.97 \pm 1.74 (1.00,7.00)	4.00	4.19 \pm 2.73 (1.00,9.02)	4.00
32	3.95 \pm 1.78 (1.00,7.00)	4.00	3.95 \pm 1.76 (1.00,7.00)	4.00	4.14 \pm 2.47 (1.00,9.00)	4.00
33	3.91 \pm 1.78 (1.00,7.00)	4.00	3.91 \pm 1.76 (1.00,7.00)	4.00	4.01 \pm 2.52 (1.00,9.00)	4.00

Table 14: Per-age average median CLD per user for the full cohort, as well as for the consistently not highly variable and consistently highly variable user groups.

Age	Full cohort		Consistently not highly variable		Consistently highly variable	
	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median
21	4.49 \pm 5.07 (1.00,19.00)	3.00	3.38 \pm 2.39 (1.00,9.00)	3.00	16.82 \pm 9.00 (5.19,40.00)	14.00
22	4.32 \pm 4.83 (1.00,17.00)	3.00	3.40 \pm 2.56 (1.00,9.50)	3.00	16.32 \pm 9.36 (4.00,42.00)	13.50
23	4.23 \pm 4.72 (1.00,17.00)	3.00	3.36 \pm 2.52 (1.00,9.00)	3.00	16.42 \pm 9.23 (4.00,41.00)	14.00
24	4.10 \pm 4.53 (1.00,16.00)	3.00	3.30 \pm 2.51 (1.00,9.00)	2.50	16.03 \pm 8.98 (3.00,39.35)	13.50
25	4.07 \pm 4.57 (1.00,16.00)	3.00	3.26 \pm 2.44 (1.00,9.00)	2.50	16.50 \pm 9.30 (4.00,41.29)	13.50
26	3.99 \pm 4.61 (1.00,16.00)	3.00	3.19 \pm 2.48 (1.00,9.00)	2.50	16.59 \pm 9.67 (3.00,43.00)	13.50
27	3.86 \pm 4.43 (0.50,15.50)	2.50	3.13 \pm 2.37 (0.50,9.00)	2.50	16.59 \pm 9.54 (3.34,42.66)	14.00
28	3.81 \pm 4.38 (1.00,15.00)	2.50	3.10 \pm 2.39 (0.50,9.00)	2.50	16.60 \pm 9.49 (4.00,43.00)	13.50
29	3.70 \pm 4.25 (1.00,14.50)	2.50	3.05 \pm 2.38 (0.50,9.00)	2.50	16.60 \pm 9.45 (4.00,42.00)	13.50
30	3.59 \pm 4.16 (1.00,14.00)	2.50	2.95 \pm 2.18 (0.50,8.50)	2.00	16.73 \pm 9.65 (3.00,41.00)	13.50
31	3.52 \pm 4.04 (0.50,14.00)	2.50	2.92 \pm 2.28 (0.50,8.50)	2.00	16.42 \pm 9.00 (4.00,37.95)	14.00
32	3.42 \pm 4.01 (0.50,13.00)	2.00	2.87 \pm 2.22 (0.50,8.50)	2.00	16.87 \pm 10.05 (3.00,43.00)	13.50
33	3.44 \pm 4.25 (1.00,14.00)	2.00	2.73 \pm 1.99 (1.00,8.00)	2.00	17.58 \pm 9.49 (7.00,45.00)	14.00

Table 15: Per-age average maximum CLD per user for the full cohort, as well as for the consistently not highly variable and consistently highly variable user groups.

Age	Full cohort		Consistently not highly variable		Consistently highly variable	
	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median	Mean \pm sd (95% CI)	Median
21	9.48 \pm 7.29 (1.00,30.00)	8.00	8.18 \pm 5.34 (1.00,21.00)	7.00	23.81 \pm 10.10 (9.00,51.00)	22.00
22	9.14 \pm 6.91 (1.00,28.00)	7.00	8.08 \pm 5.26 (1.00,21.00)	7.00	23.05 \pm 10.14 (7.00,50.00)	21.00
23	8.97 \pm 6.84 (1.00,28.00)	7.00	7.96 \pm 5.23 (1.00,21.00)	7.00	23.10 \pm 10.19 (7.00,50.00)	21.00
24	8.70 \pm 6.65 (1.00,27.00)	7.00	7.76 \pm 5.11 (1.00,20.00)	7.00	22.78 \pm 10.16 (5.00,49.00)	21.00
25	8.67 \pm 6.72 (1.00,28.00)	7.00	7.72 \pm 5.12 (1.00,20.00)	7.00	23.39 \pm 10.26 (7.00,51.00)	22.00
26	8.51 \pm 6.64 (1.00,27.00)	7.00	7.59 \pm 5.09 (1.00,20.00)	6.00	23.15 \pm 10.29 (6.00,50.00)	21.00
27	8.26 \pm 6.47 (1.00,26.00)	7.00	7.40 \pm 4.93 (1.00,19.00)	6.00	23.22 \pm 10.48 (6.00,50.32)	21.00
28	8.17 \pm 6.40 (1.00,26.00)	6.00	7.35 \pm 4.94 (1.00,19.00)	6.00	23.09 \pm 10.17 (7.00,49.15)	21.00
29	8.01 \pm 6.35 (1.00,26.00)	6.00	7.24 \pm 4.94 (1.00,19.00)	6.00	23.42 \pm 10.31 (6.00,50.35)	22.00
30	7.82 \pm 6.13 (1.00,25.00)	6.00	7.07 \pm 4.71 (1.00,18.00)	6.00	23.16 \pm 10.29 (7.00,50.00)	21.00
31	7.71 \pm 6.04 (1.00,25.00)	6.00	7.00 \pm 4.74 (1.00,18.00)	6.00	23.00 \pm 9.65 (8.00,48.00)	22.00
32	7.54 \pm 5.88 (1.00,24.00)	6.00	6.91 \pm 4.64 (1.00,18.00)	6.00	22.94 \pm 10.35 (5.00,52.00)	21.00
33	7.72 \pm 6.21 (2.00,26.00)	6.00	6.90 \pm 4.63 (1.00,18.00)	6.00	24.01 \pm 10.10 (11.00,51.92)	22.00

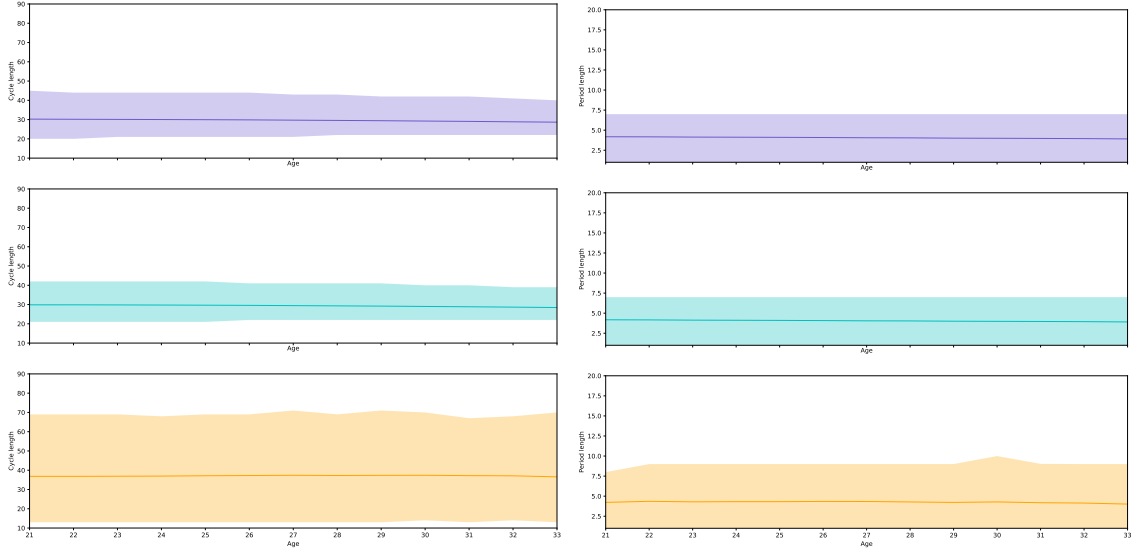


Figure 11: For users with cycles at an specific age, we average cycle (left) and period length (right) across three different groups: the entire user cohort (top, purple), the consistently not highly variable user cohort (middle, teal), and the consistently highly variable user cohort (bottom, orange). This allows us to visualize how cycle and period length vary with age for each group, on average and in terms of standard deviation. We observe that cycle and period length statistics are stationary over the studied age range within each plot. We note that the the top and middle plots look similar in each figure (i.e., the consistently not highly variable group looks similar to the overall population in terms of both cycle and period length), but the wider shaded orange spread of the bottom plot demonstrates the higher degree of variability in the consistently highly variable group. In addition, this spread is consistently wider for all ages in the orange plot. This showcases that the consistently highly variable group represents a large degree of the variability that we see in the data overall.

Supplementary Information: Results

Assessing differences in reported symptoms across user groups

The following table provides the Kolmogorov-Smirnov statistic for the empirical cumulative distributions of the proportion of cycles with symptom out of cycles with category (λ_s) for the different user groups.

Table 16: Kolmogorov-Smirnov test results for symptoms per-group

Category	Symptom	KS statistic (95% CI)	p-value
Period flow	heavy	0.181 (0.178,0.183)	< 0.000000
Stool health	normal	0.135 (0.130,0.140)	< 0.000000
Period flow	medium	0.134 (0.132,0.137)	< 0.000000
Social behavior	sociable	0.127 (0.121,0.132)	< 0.000000
Mental state	distracted	0.123 (0.118,0.127)	< 0.000000
Period flow	light	0.121 (0.118,0.124)	< 0.000000
Food cravings	sweet craving	0.120 (0.115,0.125)	< 0.000000
Energy level	low energy	0.118 (0.114,0.121)	< 0.000000
Motivation level	unproductive	0.117 (0.112,0.122)	< 0.000000
Digestive health	bloated	0.116 (0.111,0.122)	< 0.000000
Emotional state	sensitive	0.115 (0.112,0.118)	< 0.000000
Digestive health	gassy	0.114 (0.109,0.119)	< 0.000000
Emotional state	happy	0.108 (0.105,0.111)	< 0.000000
Mental state	calm	0.104 (0.099,0.108)	< 0.000000
Type of pain experienced	cramps	0.101 (0.097,0.104)	< 0.000000
Hours of sleep	3-6	0.100 (0.097,0.103)	< 0.000000
Food cravings	carbs craving	0.098 (0.094,0.103)	< 0.000000
Motivation level	motivated	0.098 (0.094,0.103)	< 0.000000
Motivation level	unmotivated	0.098 (0.092,0.103)	< 0.000000
Type of pain experienced	ovulation pain	0.096 (0.093,0.099)	< 0.000000
Skin health	acne skin	0.093 (0.088,0.098)	< 0.000000
Social behavior	withdrawn	0.093 (0.087,0.098)	< 0.000000
Skin health	oily skin	0.093 (0.089,0.096)	< 0.000000
Hair health	bad hair	0.092 (0.087,0.097)	< 0.000000
Vaginal discharge type	creamy	0.091 (0.086,0.095)	< 0.000000
Type of pain experienced	headache	0.089 (0.087,0.092)	< 0.000000
Hair health	good hair	0.089 (0.083,0.095)	< 0.000000
Period flow	spotting	0.089 (0.087,0.092)	< 0.000000
Emotional state	pms	0.086 (0.083,0.089)	< 0.000000
Digestive health	great digestion	0.085 (0.081,0.089)	< 0.000000
Skin health	good skin	0.085 (0.081,0.088)	< 0.000000
Food cravings	salty cravings	0.084 (0.080,0.089)	< 0.000000
Method for period collection	pad	0.083 (0.077,0.090)	< 0.000000
Type of pain experienced	tender breasts	0.082 (0.080,0.084)	< 0.000000
Hours of sleep	6-9	0.079 (0.076,0.083)	< 0.000000
Mental state	stressed	0.079 (0.074,0.083)	< 0.000000
Stool health	constipated	0.078 (0.074,0.083)	< 0.000000
Sexual health	unprotected sex	0.078 (0.074,0.081)	< 0.000000
Physical maladies	cold/flu	0.077 (0.067,0.087)	< 0.000000
Method for period collection	tampon	0.076 (0.070,0.083)	< 0.000000
Type of medication taken	cold/flu	0.076 (0.067,0.085)	< 0.000000
Emotional state	sad	0.076 (0.073,0.079)	< 0.000000
Social behavior	supportive	0.075 (0.071,0.079)	< 0.000000

Category	Symptom	KS statistic (95% CI)	p-value
Physical exercise	running	0.074 (0.067,0.081)	< 0.000000
Party-related experiences	cigarettes	0.074 (0.067,0.081)	< 0.000000
Stool health	diarrhea	0.071 (0.066,0.076)	< 0.000000
Motivation level	productive	0.071 (0.067,0.075)	< 0.000000
Food cravings	chocolate cravings	0.071 (0.066,0.075)	< 0.000000
Mental state	focused	0.069 (0.066,0.073)	< 0.000000
Vaginal discharge type	atypical	0.069 (0.065,0.074)	< 0.000000
Sexual health	protected sex	0.069 (0.065,0.073)	< 0.000000
Method for period collection	menstrual cup	0.067 (0.063,0.072)	< 0.000000
Skin health	dry skin	0.067 (0.063,0.072)	< 0.000000
Hair health	dry hair	0.067 (0.061,0.073)	< 0.000000
Hair health	oily hair	0.067 (0.062,0.072)	< 0.000000
Vaginal discharge type	sticky	0.066 (0.062,0.070)	< 0.000000
Energy level	exhausted	0.066 (0.063,0.069)	< 0.000000
Stool health	great	0.065 (0.060,0.071)	< 0.000000
Digestive health	nauseated	0.064 (0.059,0.069)	< 0.000000
Energy level	high energy	0.063 (0.061,0.066)	< 0.000000
Party-related experiences	big night party	0.063 (0.057,0.071)	< 0.000000
Social behavior	conflict	0.062 (0.059,0.068)	< 0.000000
Vaginal discharge type	egg white	0.062 (0.058,0.067)	< 0.000000
Physical exercise	yoga	0.062 (0.055,0.068)	< 0.000000
Physical maladies	allergy	0.061 (0.053,0.069)	0.000001
Hours of sleep	>9	0.061 (0.057,0.064)	< 0.000000
Method for period collection	panty liner	0.057 (0.053,0.061)	< 0.000000
Physical exercise	biking	0.056 (0.049,0.062)	< 0.000000
Party-related experiences	hangover	0.055 (0.051,0.063)	< 0.000000
Energy level	energized	0.052 (0.049,0.055)	< 0.000000
Sexual health	high sex drive	0.052 (0.051,0.055)	< 0.000000
Type of medication taken	pain	0.046 (0.041,0.054)	0.000548
Sexual health	withdrawal sex	0.045 (0.044,0.048)	< 0.000000
Physical maladies	fever	0.044 (0.037,0.054)	0.001015
Type of medication taken	antibiotic	0.044 (0.036,0.053)	0.001040
Party-related experiences	drinks party	0.042 (0.037,0.050)	0.000028
Hours of sleep	0-3	0.041 (0.039,0.044)	< 0.000000
Physical maladies	injury	0.040 (0.034,0.049)	0.003686
Physical exercise	swimming	0.040 (0.034,0.045)	0.000003
Type of medication taken	antihistamine	0.032 (0.029,0.041)	0.032955

The following table provides the odds ratio of how likely users in the consistently highly variable group to the consistently not highly variable group are not to track a symptom throughout their cycle history (i.e., in very few of their cycles).

Table 17: Likelihood of low proportion ($\lambda_s < 0.05$) of cycles with symptom out of cycles with category per group, with the associated odds ratio. 95% confidence intervals attained via bootstrapping with 100,000 samples are shown in parentheses.

Category	Symptom	High variability group	Low variability group	Odds ratio
Period flow	medium	0.009 (0.009,0.009)	0.003 (0.003,0.003)	3.140 (2.826,3.522)
Period flow	light	0.036 (0.036,0.036)	0.014 (0.013,0.015)	2.568 (2.445,2.700)
Period flow	heavy	0.170 (0.169,0.170)	0.098 (0.096,0.100)	1.734 (1.703,1.766)
Type of pain experienced	cramps	0.105 (0.104,0.105)	0.073 (0.071,0.074)	1.436 (1.404,1.470)
Skin health	acne skin	0.174 (0.173,0.176)	0.132 (0.129,0.135)	1.319 (1.286,1.353)
Period flow	spotting	0.314 (0.313,0.315)	0.239 (0.237,0.241)	1.314 (1.300,1.328)
Mental state	stressed	0.243 (0.242,0.245)	0.186 (0.182,0.189)	1.312 (1.286,1.340)
Type of medication taken	pain	0.212 (0.209,0.215)	0.167 (0.160,0.174)	1.274 (1.220,1.334)
Emotional state	sad	0.348 (0.346,0.349)	0.273 (0.270,0.276)	1.273 (1.260,1.287)
Emotional state	pms	0.395 (0.394,0.396)	0.310 (0.307,0.313)	1.273 (1.261,1.286)
Motivation level	unmotivated	0.168 (0.167,0.170)	0.133 (0.129,0.136)	1.271 (1.237,1.307)
Party-related experiences	drinks party	0.166 (0.164,0.168)	0.131 (0.126,0.136)	1.270 (1.219,1.325)
Emotional state	sensitive	0.176 (0.175,0.177)	0.143 (0.140,0.145)	1.234 (1.214,1.254)
Stool health	diarrhea	0.369 (0.367,0.371)	0.299 (0.295,0.304)	1.234 (1.213,1.255)
Social behavior	withdrawn	0.215 (0.213,0.216)	0.176 (0.172,0.180)	1.218 (1.188,1.249)
Hours of sleep	6-9	0.161 (0.160,0.162)	0.133 (0.130,0.135)	1.218 (1.196,1.240)
Type of pain experienced	headache	0.326 (0.325,0.327)	0.269 (0.266,0.272)	1.212 (1.199,1.225)
Energy level	exhausted	0.312 (0.311,0.313)	0.258 (0.255,0.261)	1.208 (1.194,1.223)
Vaginal discharge type	egg white	0.359 (0.357,0.361)	0.298 (0.293,0.303)	1.206 (1.186,1.226)
Physical maladies	cold/flu	0.234 (0.231,0.238)	0.195 (0.187,0.202)	1.204 (1.158,1.254)
Social behavior	conflict	0.379 (0.377,0.381)	0.318 (0.313,0.323)	1.194 (1.174,1.215)
Digestive health	gassy	0.219 (0.217,0.221)	0.184 (0.180,0.188)	1.189 (1.162,1.217)
Motivation level	unproductive	0.207 (0.205,0.208)	0.175 (0.171,0.179)	1.179 (1.152,1.207)
Energy level	low energy	0.129 (0.128,0.130)	0.110 (0.108,0.112)	1.174 (1.151,1.198)
Digestive health	nauseated	0.427 (0.425,0.429)	0.365 (0.360,0.370)	1.170 (1.153,1.187)
Digestive health	bloated	0.151 (0.150,0.153)	0.130 (0.126,0.133)	1.165 (1.133,1.199)
Stool health	constipated	0.358 (0.356,0.360)	0.309 (0.304,0.314)	1.160 (1.141,1.180)
Food cravings	chocolate	0.350 (0.348,0.351)	0.302 (0.297,0.306)	1.159 (1.142,1.178)
	craving			
Motivation level	productive	0.354 (0.352,0.356)	0.308 (0.304,0.313)	1.148 (1.130,1.167)
Food cravings	salty craving	0.295 (0.293,0.296)	0.257 (0.253,0.261)	1.147 (1.127,1.168)
Food cravings	sweet craving	0.144 (0.143,0.146)	0.126 (0.123,0.129)	1.146 (1.116,1.178)
	ing			
Type of pain experienced	tender breasts	0.366 (0.365,0.367)	0.320 (0.317,0.322)	1.145 (1.134,1.156)
Food cravings	carbs craving	0.310 (0.309,0.312)	0.271 (0.267,0.276)	1.144 (1.125,1.164)
Physical exercise	running	0.250 (0.248,0.253)	0.219 (0.214,0.224)	1.144 (1.116,1.174)
Sexual health	protected sex	0.533 (0.531,0.534)	0.466 (0.462,0.469)	1.143 (1.134,1.152)

Category	Symptom	High variability group	Low variability group	Odds ratio
Type of pain experienced	ovulation pain	0.721 (0.720,0.722)	0.633 (0.630,0.636)	1.139 (1.133,1.144)
Party-related experiences	big night party	0.522 (0.519,0.525)	0.460 (0.452,0.468)	1.136 (1.116,1.156)
Hair health	oily hair	0.363 (0.361,0.365)	0.320 (0.314,0.325)	1.135 (1.114,1.157)
Method for period collection	tampon	0.630 (0.628,0.633)	0.557 (0.551,0.563)	1.131 (1.119,1.144)
Physical exercise	yoga	0.551 (0.548,0.553)	0.489 (0.483,0.496)	1.125 (1.110,1.141)
Hair health	good hair	0.217 (0.215,0.219)	0.194 (0.189,0.199)	1.120 (1.091,1.150)
Party-related experiences	hangover	0.512 (0.509,0.515)	0.458 (0.450,0.465)	1.119 (1.100,1.139)
Stool health	great	0.595 (0.593,0.597)	0.533 (0.527,0.538)	1.118 (1.106,1.130)
Hours of sleep	3-6	0.259 (0.258,0.260)	0.232 (0.229,0.235)	1.117 (1.102,1.131)
Sexual health	high sex drive	0.469 (0.467,0.470)	0.420 (0.417,0.424)	1.115 (1.105,1.124)
Hours of sleep	>9	0.587 (0.586,0.588)	0.530 (0.526,0.533)	1.108 (1.101,1.115)
Vaginal discharge type	sticky	0.439 (0.437,0.441)	0.399 (0.394,0.404)	1.101 (1.086,1.115)
Hair health	bad hair	0.324 (0.322,0.326)	0.295 (0.289,0.300)	1.099 (1.078,1.121)
Mental state	distracted	0.204 (0.202,0.205)	0.187 (0.183,0.190)	1.091 (1.069,1.115)
Skin health	good skin	0.384 (0.382,0.386)	0.352 (0.348,0.357)	1.091 (1.076,1.105)
Vaginal discharge type	creamy	0.342 (0.340,0.344)	0.315 (0.310,0.319)	1.087 (1.071,1.105)
Sexual health	unprotected sex	0.378 (0.376,0.379)	0.348 (0.344,0.351)	1.086 (1.075,1.097)
Energy level	high energy	0.394 (0.393,0.395)	0.363 (0.360,0.367)	1.085 (1.075,1.095)
Physical exercise	biking	0.715 (0.712,0.717)	0.660 (0.654,0.666)	1.083 (1.072,1.093)
Method for period collection	menstrual cup	0.880 (0.879,0.882)	0.814 (0.809,0.818)	1.082 (1.075,1.088)
Mental state	focused	0.407 (0.405,0.409)	0.377 (0.372,0.381)	1.081 (1.067,1.095)
Type of medication taken	cold/flu	0.569 (0.565,0.573)	0.527 (0.517,0.536)	1.080 (1.060,1.101)
Motivation level	motivated	0.299 (0.297,0.301)	0.278 (0.273,0.282)	1.075 (1.057,1.094)
Sexual health	withdrawal sex	0.596 (0.595,0.598)	0.556 (0.552,0.559)	1.073 (1.065,1.080)
Social behavior	supportive	0.412 (0.410,0.414)	0.386 (0.380,0.391)	1.069 (1.054,1.085)
Physical maladies	fever	0.704 (0.701,0.708)	0.661 (0.653,0.670)	1.065 (1.050,1.080)
Hair health	dry hair	0.441 (0.439,0.443)	0.415 (0.409,0.421)	1.063 (1.047,1.079)
Type of medication taken	antibiotic	0.712 (0.709,0.716)	0.671 (0.662,0.680)	1.061 (1.047,1.076)
Skin health	dry skin	0.493 (0.491,0.494)	0.464 (0.460,0.469)	1.060 (1.049,1.072)
Physical maladies	injury	0.732 (0.728,0.735)	0.692 (0.684,0.701)	1.057 (1.044,1.071)
Energy level	energized	0.625 (0.624,0.626)	0.593 (0.590,0.596)	1.054 (1.047,1.060)
Method for period collection	panty liner	0.553 (0.551,0.555)	0.525 (0.519,0.531)	1.053 (1.040,1.066)
Skin health	oily skin	0.372 (0.371,0.374)	0.355 (0.351,0.360)	1.048 (1.034,1.062)
Physical exercise	swimming	0.841 (0.840,0.843)	0.803 (0.798,0.808)	1.047 (1.040,1.054)
Hours of sleep	0-3	0.762 (0.761,0.763)	0.731 (0.728,0.734)	1.043 (1.038,1.047)
Type of medication taken	antihistamine	0.767 (0.763,0.770)	0.736 (0.727,0.744)	1.042 (1.030,1.055)
Social behavior	sociable	0.218 (0.217,0.220)	0.210 (0.206,0.215)	1.038 (1.015,1.062)

Category	Symptom	High variability group	Low variability group	Odds ratio
Physical maladies	allergy	0.581 (0.578,0.585)	0.560 (0.551,0.569)	1.037 (1.019,1.056)
Emotional state	happy	0.281 (0.280,0.282)	0.275 (0.272,0.278)	1.024 (1.013,1.035)
Mental state	calm	0.293 (0.292,0.295)	0.290 (0.286,0.295)	1.010 (0.995,1.027)
Digestive health	great diges- tion	0.388 (0.386,0.390)	0.388 (0.383,0.393)	1.002 (0.988,1.016)
Stool health	normal	0.181 (0.179,0.182)	0.181 (0.177,0.185)	0.998 (0.975,1.022)
Vaginal discharge type	atypical	0.664 (0.662,0.666)	0.673 (0.668,0.678)	0.986 (0.978,0.993)
Party-related expe- riences	cigarettes	0.581 (0.578,0.585)	0.608 (0.601,0.616)	0.956 (0.943,0.969)
Method for period collection	pad	0.214 (0.212,0.216)	0.236 (0.231,0.241)	0.907 (0.886,0.929)

The following table provides the odds ratio of how likely users in the consistently highly variable group to the consistently not highly variable group are to consistently track a symptom throughout their cycle history (i.e., in almost every cycle where they track the category).

Table 18: Likelihood of high proportion ($\lambda_s > 0.95$) of cycles with symptom out of cycles with category per group, with the associated odds ratio. 95% confidence intervals attained via bootstrapping with 100,000 samples are shown in parentheses.

Category	Symptom	High variability group	Low variability group	Odds ratio
Hours of sleep	0-3	0.035 (0.034,0.035)	0.020 (0.019,0.021)	1.750 (1.667,1.839)
Period flow	spotting	0.067 (0.066,0.067)	0.039 (0.037,0.040)	1.729 (1.679,1.782)
Type of pain experienced	tender breasts	0.193 (0.192,0.194)	0.113 (0.111,0.115)	1.715 (1.684,1.746)
Vaginal discharge type	atypical	0.100 (0.099,0.101)	0.059 (0.056,0.061)	1.706 (1.636,1.780)
Energy level	energized	0.075 (0.074,0.075)	0.044 (0.043,0.046)	1.686 (1.633,1.741)
Type of pain experienced	headache	0.218 (0.217,0.219)	0.131 (0.129,0.133)	1.663 (1.636,1.691)
Skin health	dry skin	0.155 (0.154,0.157)	0.096 (0.093,0.098)	1.626 (1.579,1.676)
Type of medication taken	cold/flu	0.179 (0.176,0.182)	0.112 (0.107,0.118)	1.590 (1.506,1.681)
Skin health	oily skin	0.250 (0.248,0.251)	0.159 (0.155,0.162)	1.575 (1.540,1.611)
Hair health	dry hair	0.170 (0.169,0.172)	0.109 (0.105,0.113)	1.565 (1.510,1.624)
Digestive health	great digestion	0.241 (0.239,0.243)	0.158 (0.154,0.162)	1.528 (1.490,1.567)
Social behavior	supportive	0.215 (0.213,0.216)	0.141 (0.138,0.145)	1.519 (1.477,1.562)
Emotional state	happy	0.307 (0.306,0.308)	0.202 (0.200,0.205)	1.518 (1.498,1.538)
Skin health	good skin	0.242 (0.241,0.244)	0.160 (0.156,0.163)	1.518 (1.485,1.552)
Hair health	bad hair	0.266 (0.264,0.268)	0.175 (0.171,0.180)	1.514 (1.474,1.557)
Digestive health	nauseated	0.170 (0.168,0.171)	0.112 (0.109,0.116)	1.511 (1.466,1.558)
Stool health	great	0.101 (0.100,0.102)	0.068 (0.065,0.071)	1.487 (1.428,1.549)
Emotional state	sad	0.171 (0.170,0.172)	0.115 (0.113,0.117)	1.486 (1.459,1.513)
Method for period collection	panty liner	0.174 (0.172,0.175)	0.118 (0.114,0.122)	1.471 (1.422,1.523)
Stool health	constipated	0.246 (0.244,0.248)	0.169 (0.165,0.173)	1.454 (1.420,1.491)
Mental state	focused	0.218 (0.216,0.219)	0.150 (0.147,0.153)	1.451 (1.417,1.486)
Mental state	calm	0.327 (0.325,0.328)	0.225 (0.221,0.229)	1.450 (1.424,1.477)
Vaginal discharge type	sticky	0.214 (0.212,0.216)	0.148 (0.145,0.152)	1.442 (1.406,1.479)
Type of medication taken	antihistamine	0.099 (0.096,0.101)	0.069 (0.064,0.074)	1.437 (1.337,1.548)
Hours of sleep	3-6	0.322 (0.321,0.324)	0.225 (0.222,0.228)	1.431 (1.413,1.450)
Motivation level	motivated	0.321 (0.319,0.322)	0.225 (0.220,0.229)	1.428 (1.401,1.457)
Hours of sleep	>9	0.093 (0.092,0.094)	0.065 (0.064,0.067)	1.425 (1.388,1.464)
Physical exercise	swimming	0.061 (0.060,0.062)	0.043 (0.040,0.045)	1.423 (1.339,1.516)
Motivation level	unproductive	0.387 (0.386,0.389)	0.272 (0.268,0.277)	1.422 (1.398,1.447)
Mental state	distracted	0.407 (0.405,0.409)	0.286 (0.282,0.290)	1.422 (1.400,1.444)
Type of pain experienced	ovulation pain	0.044 (0.043,0.044)	0.031 (0.030,0.032)	1.419 (1.369,1.473)
Emotional state	sensitive	0.380 (0.378,0.381)	0.269 (0.266,0.272)	1.411 (1.395,1.426)
Food cravings	carbs craving	0.334 (0.332,0.336)	0.238 (0.234,0.242)	1.403 (1.378,1.429)
Energy level	high energy	0.214 (0.213,0.215)	0.153 (0.150,0.155)	1.400 (1.377,1.423)
Social behavior	conflict	0.208 (0.206,0.210)	0.149 (0.145,0.153)	1.399 (1.362,1.438)

Category	Symptom	High variability group	Low variability group	Odds ratio
Vaginal discharge type	creamy	0.314 (0.312,0.316)	0.224 (0.220,0.228)	1.399 (1.372,1.427)
Social behavior	sociable	0.444 (0.442,0.446)	0.320 (0.315,0.325)	1.388 (1.365,1.411)
Sexual health	withdrawal sex	0.159 (0.158,0.160)	0.115 (0.112,0.117)	1.386 (1.358,1.415)
Energy level	exhausted	0.235 (0.234,0.236)	0.170 (0.167,0.172)	1.382 (1.361,1.403)
Stool health	normal	0.475 (0.473,0.477)	0.344 (0.339,0.349)	1.381 (1.361,1.402)
Digestive health	gassy	0.400 (0.398,0.402)	0.290 (0.285,0.294)	1.381 (1.358,1.405)
Hair health	oily hair	0.244 (0.242,0.246)	0.178 (0.173,0.183)	1.368 (1.332,1.407)
Physical maladies	fever	0.119 (0.116,0.121)	0.087 (0.082,0.092)	1.368 (1.285,1.458)
Emotional state	pms	0.160 (0.159,0.161)	0.117 (0.115,0.119)	1.367 (1.342,1.393)
Food cravings	chocolate craving	0.263 (0.261,0.264)	0.194 (0.190,0.198)	1.357 (1.329,1.386)
Motivation level	productive	0.266 (0.264,0.267)	0.197 (0.193,0.201)	1.347 (1.318,1.376)
Physical maladies	injury	0.105 (0.102,0.107)	0.078 (0.073,0.083)	1.346 (1.260,1.442)
Type of medication taken	antibiotic	0.123 (0.120,0.126)	0.092 (0.086,0.097)	1.345 (1.264,1.433)
Party-related experiences	hangover	0.200 (0.198,0.203)	0.149 (0.144,0.155)	1.343 (1.293,1.397)
Physical maladies	allergy	0.236 (0.233,0.239)	0.176 (0.169,0.183)	1.343 (1.289,1.402)
Party-related experiences	big night party	0.215 (0.212,0.217)	0.160 (0.154,0.166)	1.342 (1.293,1.393)
Party-related experiences	cigarettes	0.290 (0.287,0.293)	0.217 (0.211,0.223)	1.337 (1.297,1.379)
Stool health	diarrhea	0.225 (0.223,0.226)	0.169 (0.165,0.173)	1.330 (1.298,1.363)
Food cravings	salty craving	0.331 (0.330,0.333)	0.249 (0.245,0.253)	1.330 (1.307,1.353)
Energy level	low energy	0.489 (0.488,0.491)	0.376 (0.373,0.379)	1.302 (1.290,1.314)
Social behavior	withdrawn	0.397 (0.395,0.399)	0.307 (0.302,0.312)	1.294 (1.272,1.317)
Sexual health	high sex drive	0.224 (0.223,0.226)	0.174 (0.171,0.176)	1.292 (1.271,1.313)
Digestive health	bloated	0.502 (0.500,0.504)	0.390 (0.385,0.395)	1.287 (1.270,1.305)
Food cravings	sweet craving	0.527 (0.526,0.529)	0.411 (0.406,0.416)	1.283 (1.268,1.299)
Mental state	stressed	0.353 (0.351,0.354)	0.276 (0.272,0.280)	1.277 (1.257,1.298)
Sexual health	unprotected sex	0.354 (0.353,0.356)	0.279 (0.276,0.282)	1.271 (1.256,1.286)
Motivation level	unmotivated	0.446 (0.444,0.448)	0.352 (0.347,0.356)	1.270 (1.251,1.288)
Hair health	good hair	0.421 (0.419,0.424)	0.336 (0.331,0.342)	1.253 (1.231,1.276)
Period flow	light	0.250 (0.249,0.251)	0.203 (0.200,0.205)	1.233 (1.219,1.248)
Skin health	acne skin	0.489 (0.487,0.491)	0.400 (0.395,0.405)	1.222 (1.207,1.237)
Vaginal discharge type	egg white	0.298 (0.297,0.300)	0.244 (0.240,0.249)	1.222 (1.199,1.245)
Type of pain experienced	cramps	0.529 (0.528,0.530)	0.442 (0.439,0.445)	1.198 (1.189,1.206)
Sexual health	protected sex	0.219 (0.218,0.220)	0.183 (0.181,0.186)	1.196 (1.178,1.215)
Physical exercise	biking	0.129 (0.128,0.131)	0.109 (0.105,0.113)	1.188 (1.144,1.235)
Hours of sleep	6-9	0.474 (0.473,0.476)	0.400 (0.396,0.403)	1.188 (1.177,1.198)
Physical exercise	yoga	0.262 (0.260,0.265)	0.223 (0.217,0.228)	1.179 (1.151,1.209)
Physical maladies	cold/flu	0.529 (0.525,0.533)	0.453 (0.444,0.462)	1.169 (1.144,1.194)
Method for period collection	pad	0.583 (0.581,0.585)	0.505 (0.499,0.511)	1.155 (1.141,1.170)
Physical exercise	running	0.563 (0.560,0.566)	0.490 (0.484,0.496)	1.149 (1.133,1.164)
Period flow	medium	0.388 (0.387,0.389)	0.345 (0.342,0.347)	1.126 (1.117,1.136)

Category	Symptom	High variability group	Low variability group	Odds ratio
Party-related experiences	drinks party	0.635 (0.632,0.638)	0.594 (0.587,0.602)	1.069 (1.055,1.084)
Type of medication taken	pain	0.597 (0.593,0.601)	0.561 (0.552,0.571)	1.063 (1.044,1.082)
Method for period collection	tampon	0.210 (0.209,0.212)	0.218 (0.213,0.223)	0.967 (0.943,0.991)
Period flow	heavy	0.078 (0.077,0.079)	0.096 (0.094,0.097)	0.817 (0.802,0.833)
Method for period collection	menstrual cup	0.075 (0.074,0.076)	0.100 (0.096,0.103)	0.755 (0.726,0.785)

The following figures showcase the empirical cumulative distributions of the proportion of cycles with symptom out of cycles with category between different user groups — the consistently highly variable group is indicated in orange, and the consistently not highly variable group is indicated in teal. Figures are organized based on their Kolmogorov-Smirnov test value, in descending order. The mean (dotted line) and %95 confidence interval (shaded region) of the bootstrapped CDF with 100,000 samples is also shown.

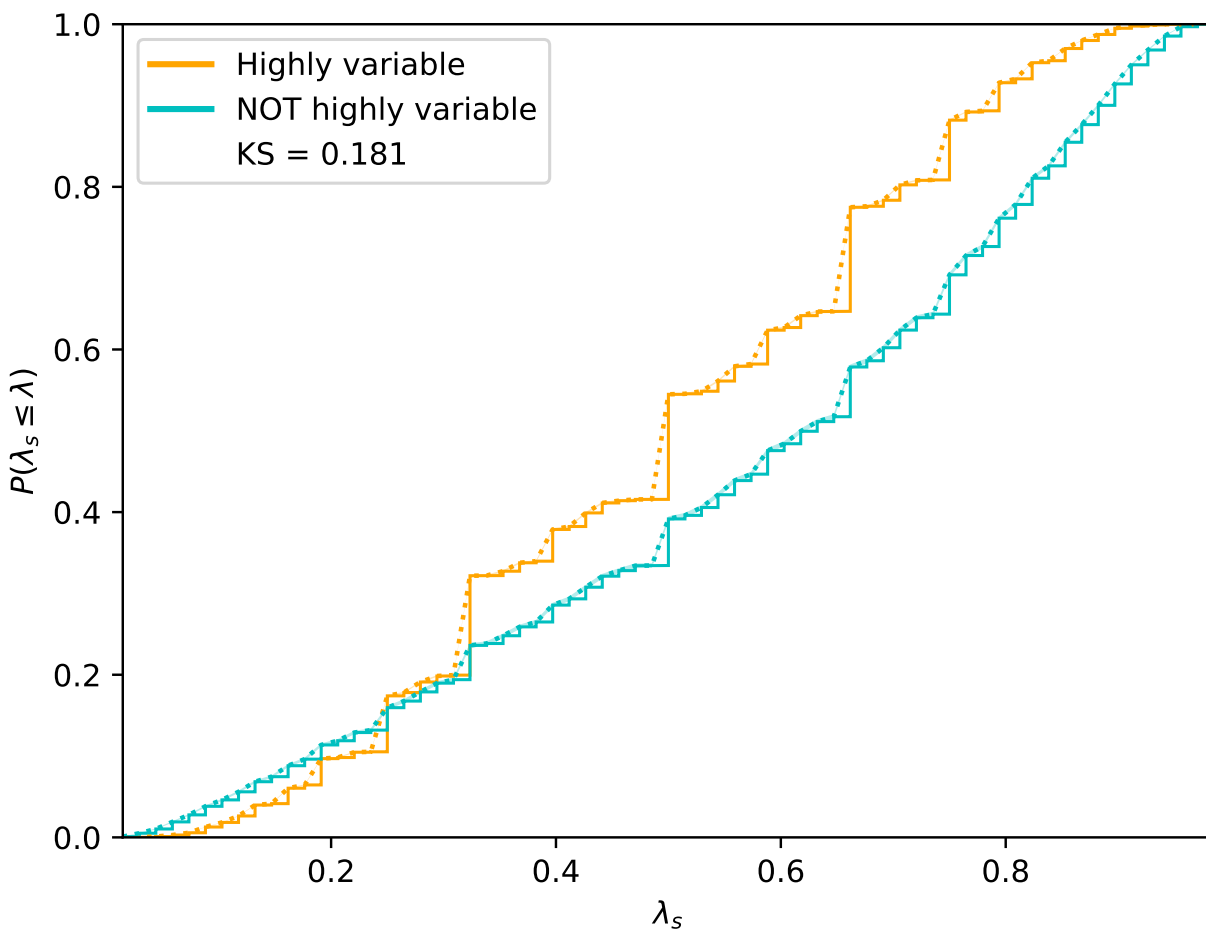


Figure 12: Heavy period flow.

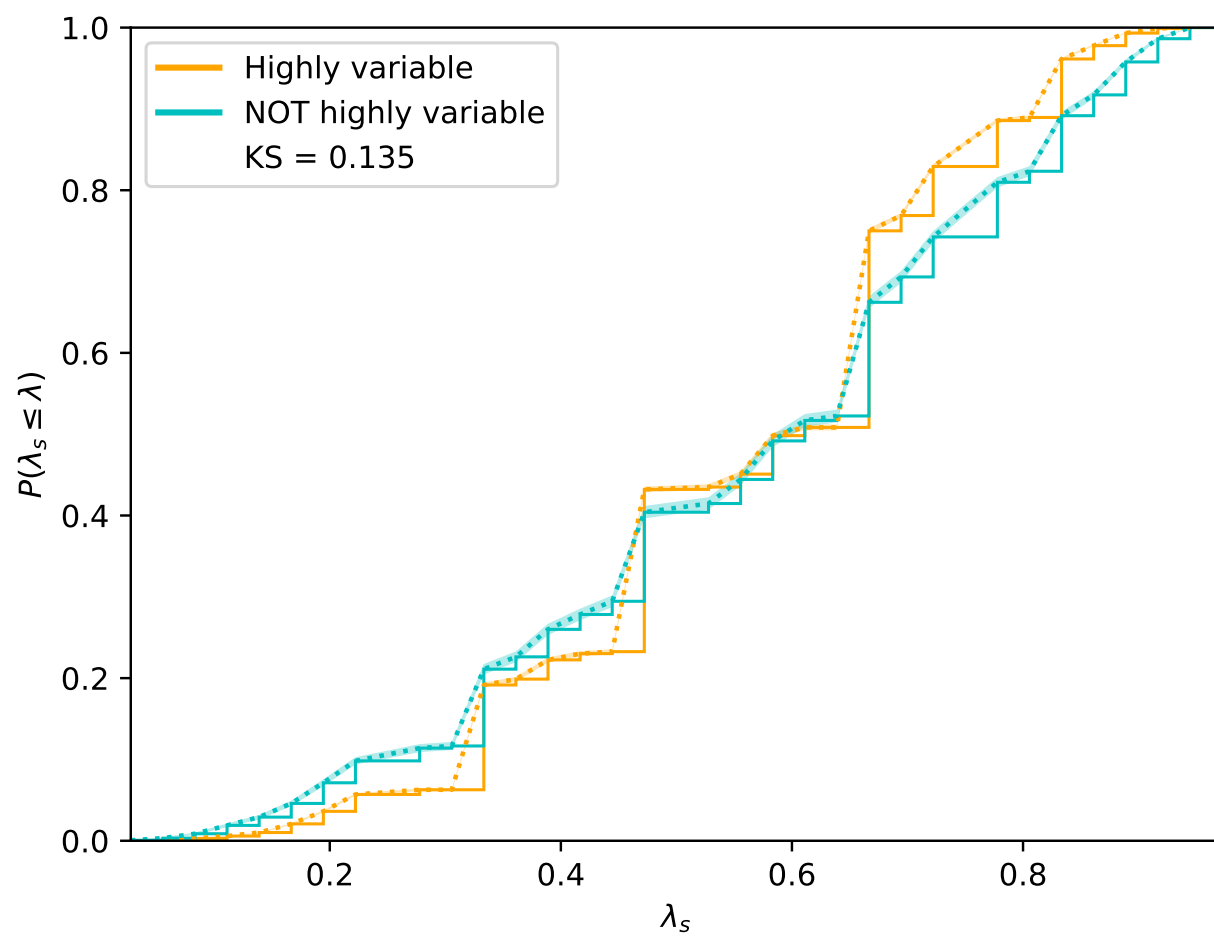


Figure 13: Normal stool health.

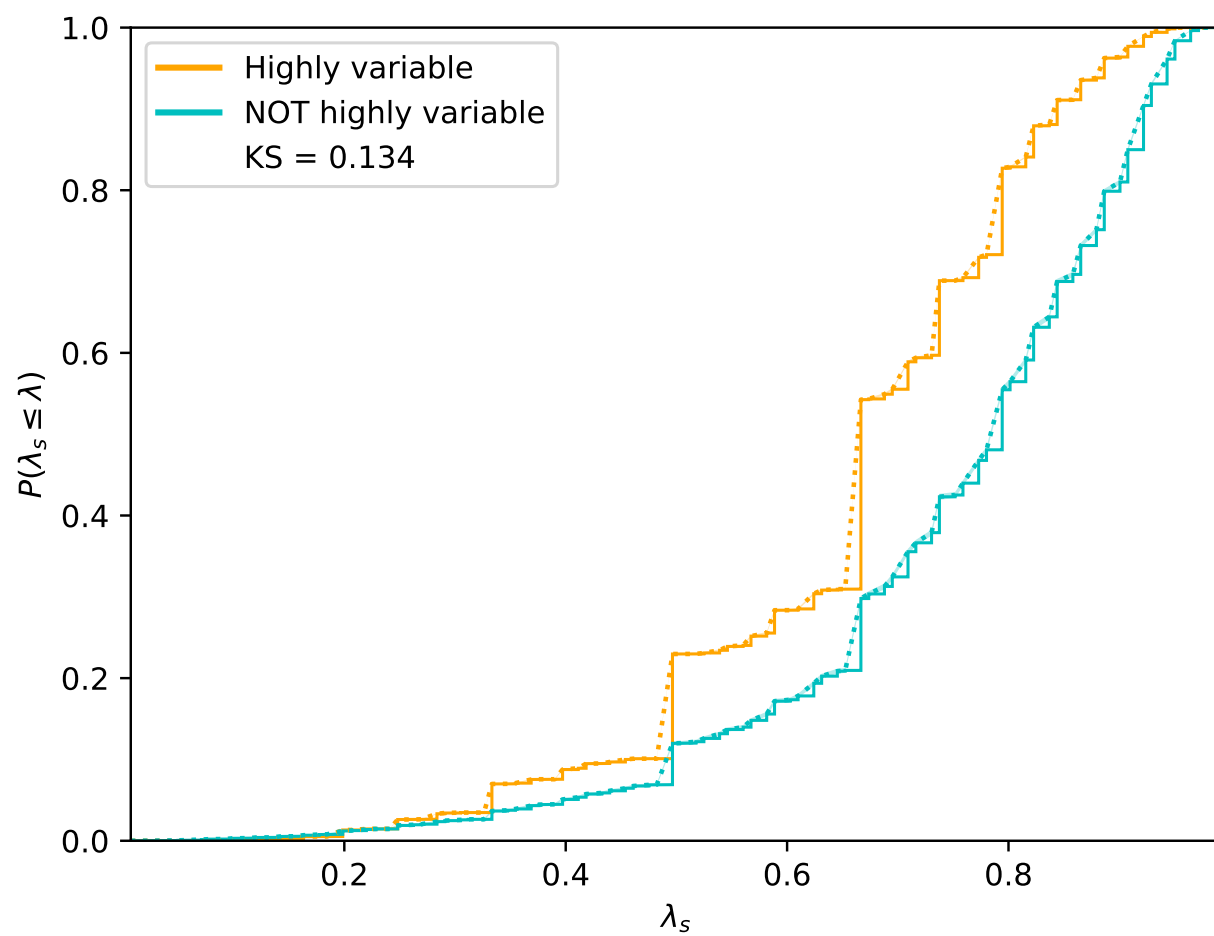


Figure 14: Medium period flow.

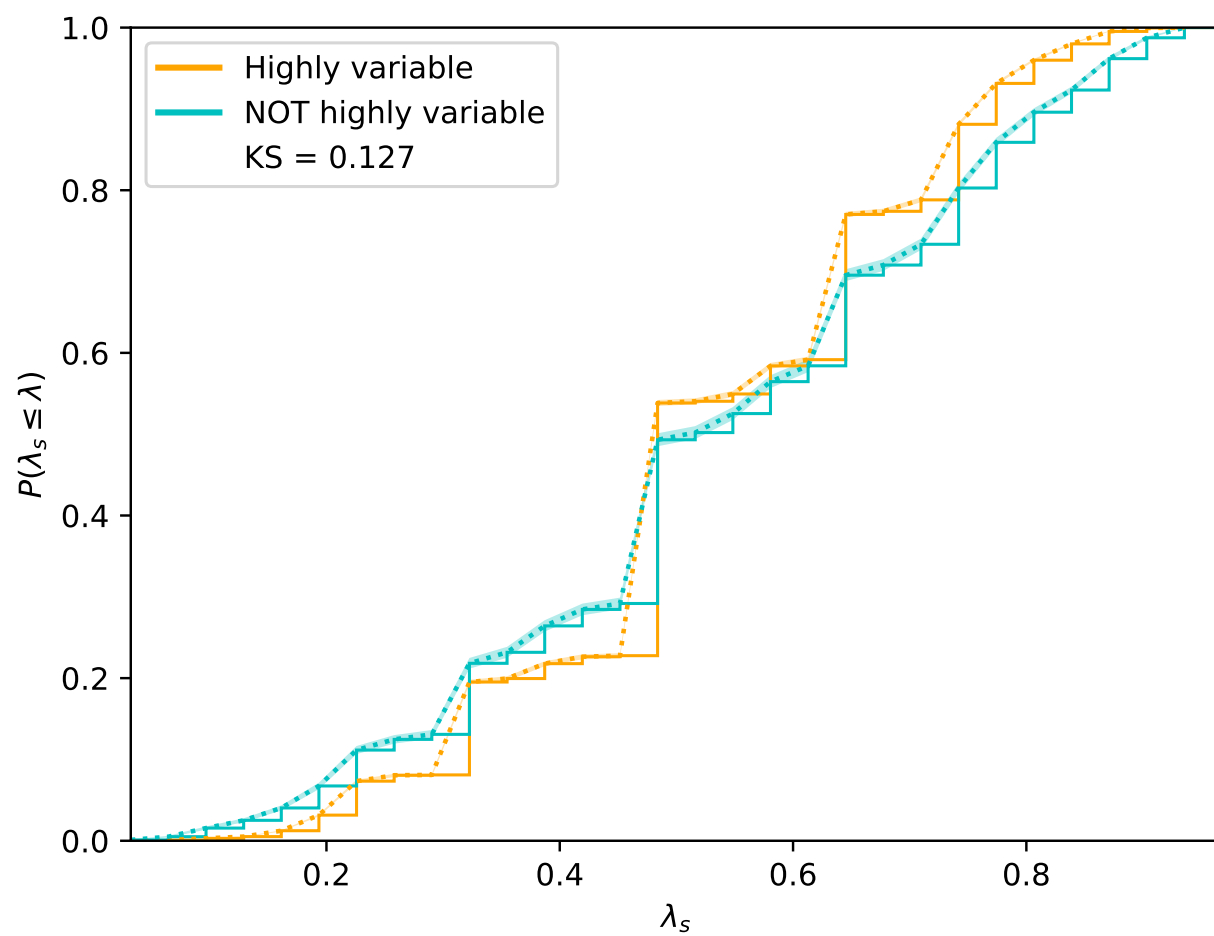


Figure 15: Sociable social behavior.

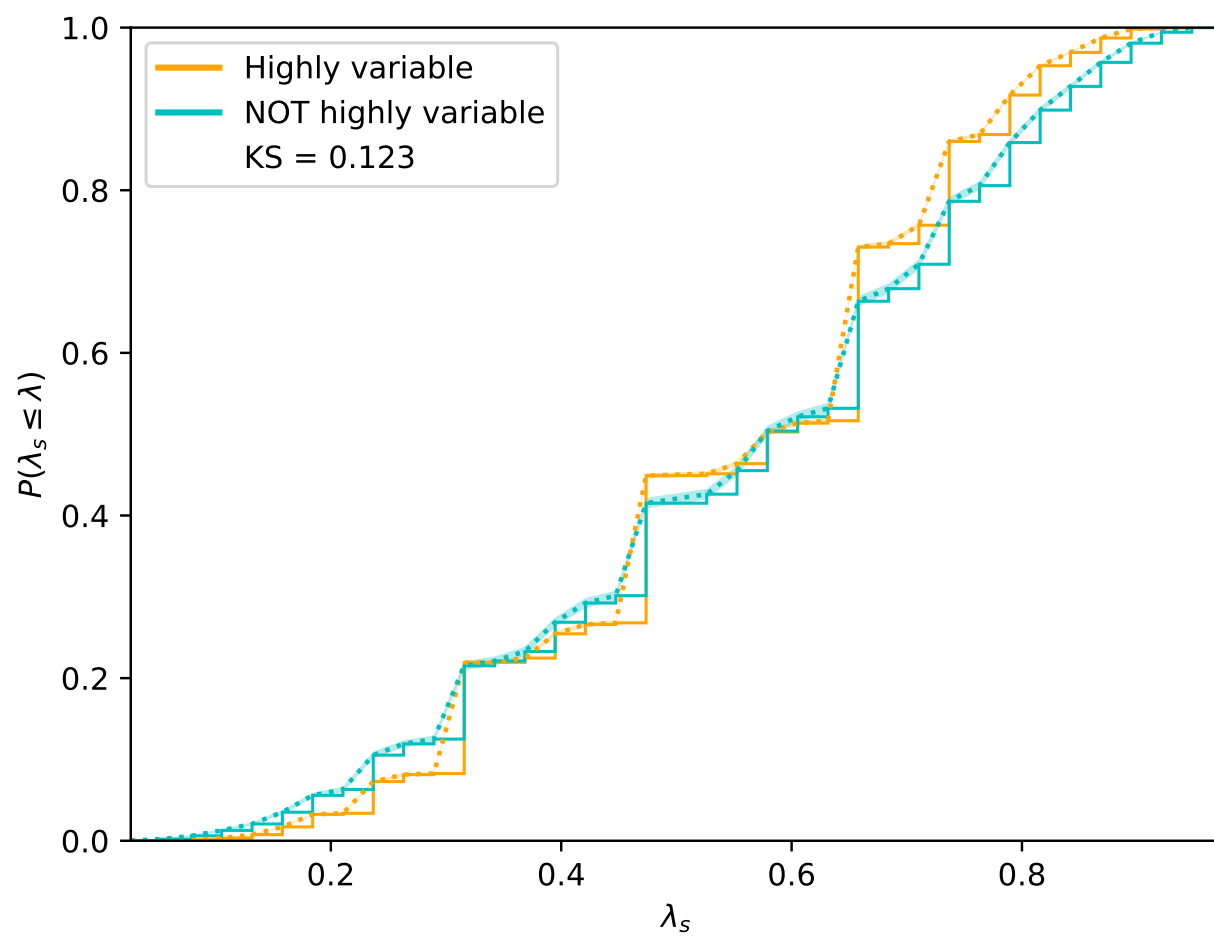


Figure 16: Distracted mental state.

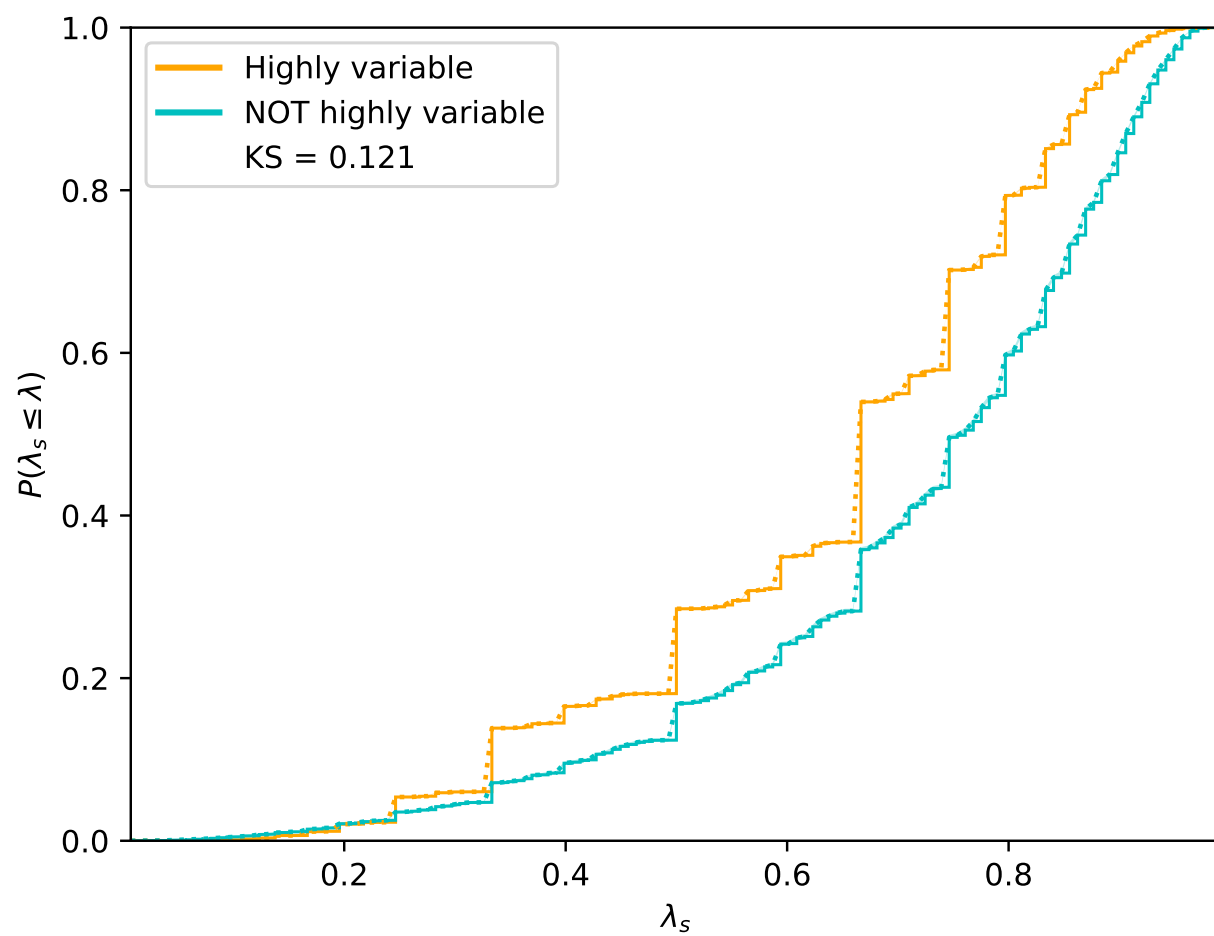


Figure 17: Light period flow.

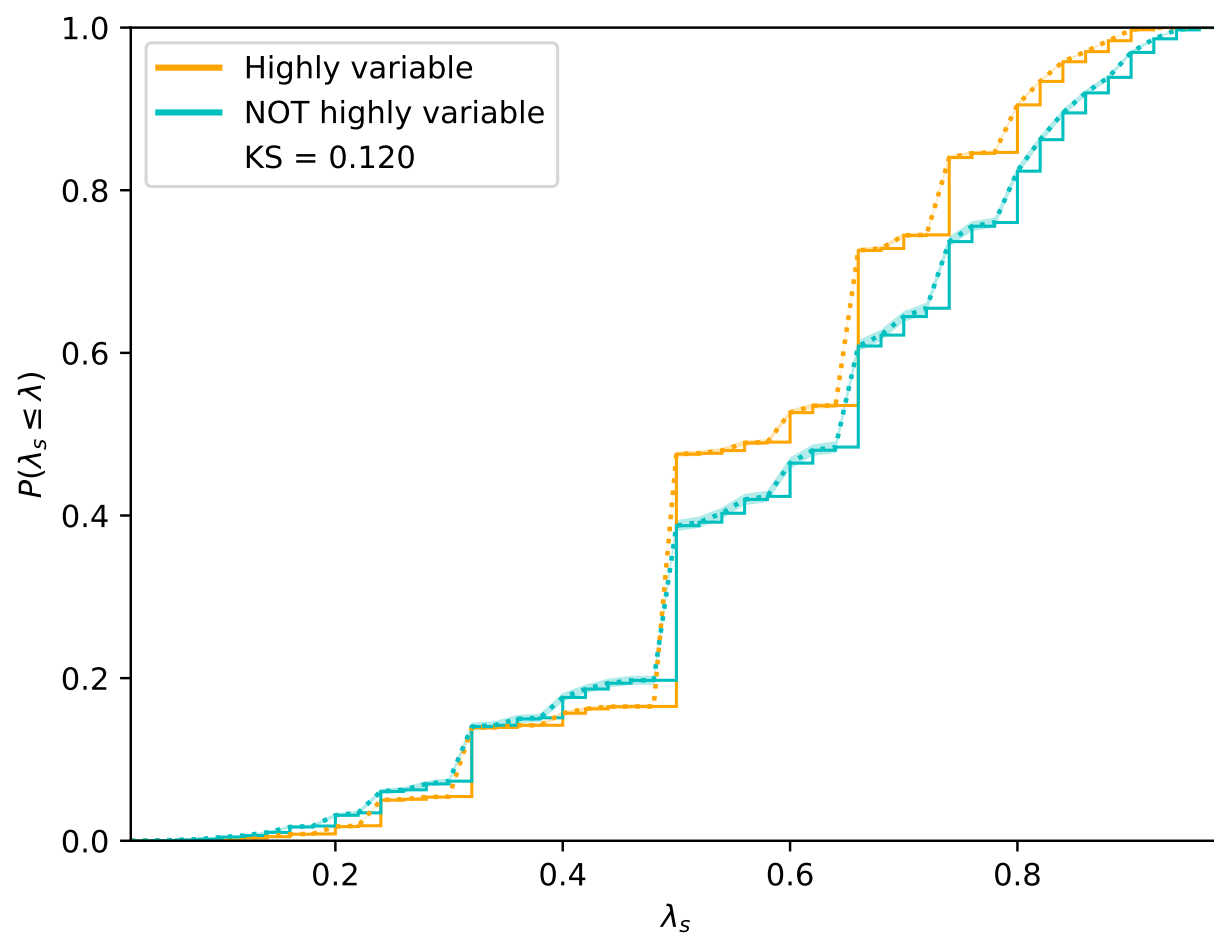


Figure 18: Sweet food craving experienced.

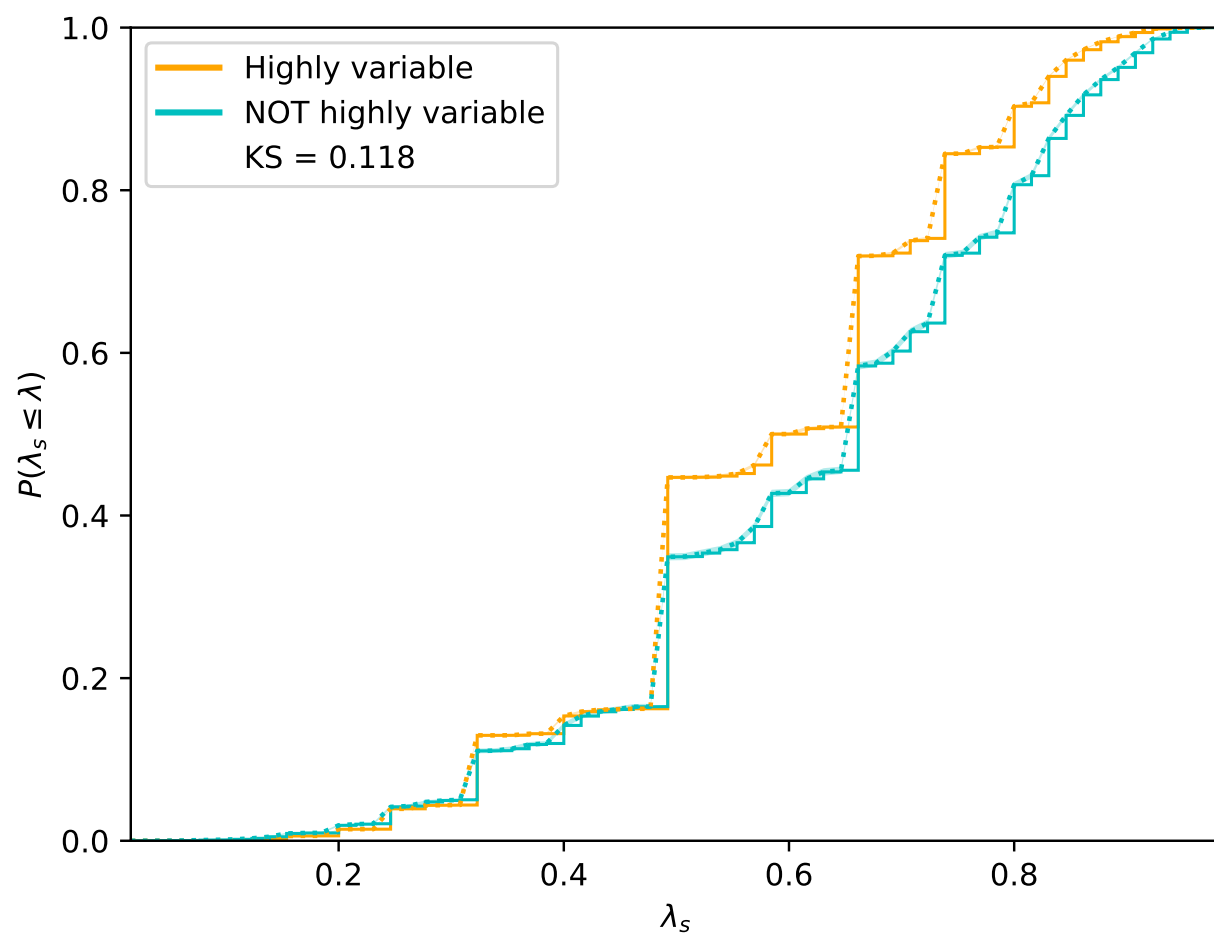


Figure 19: Low energy level.

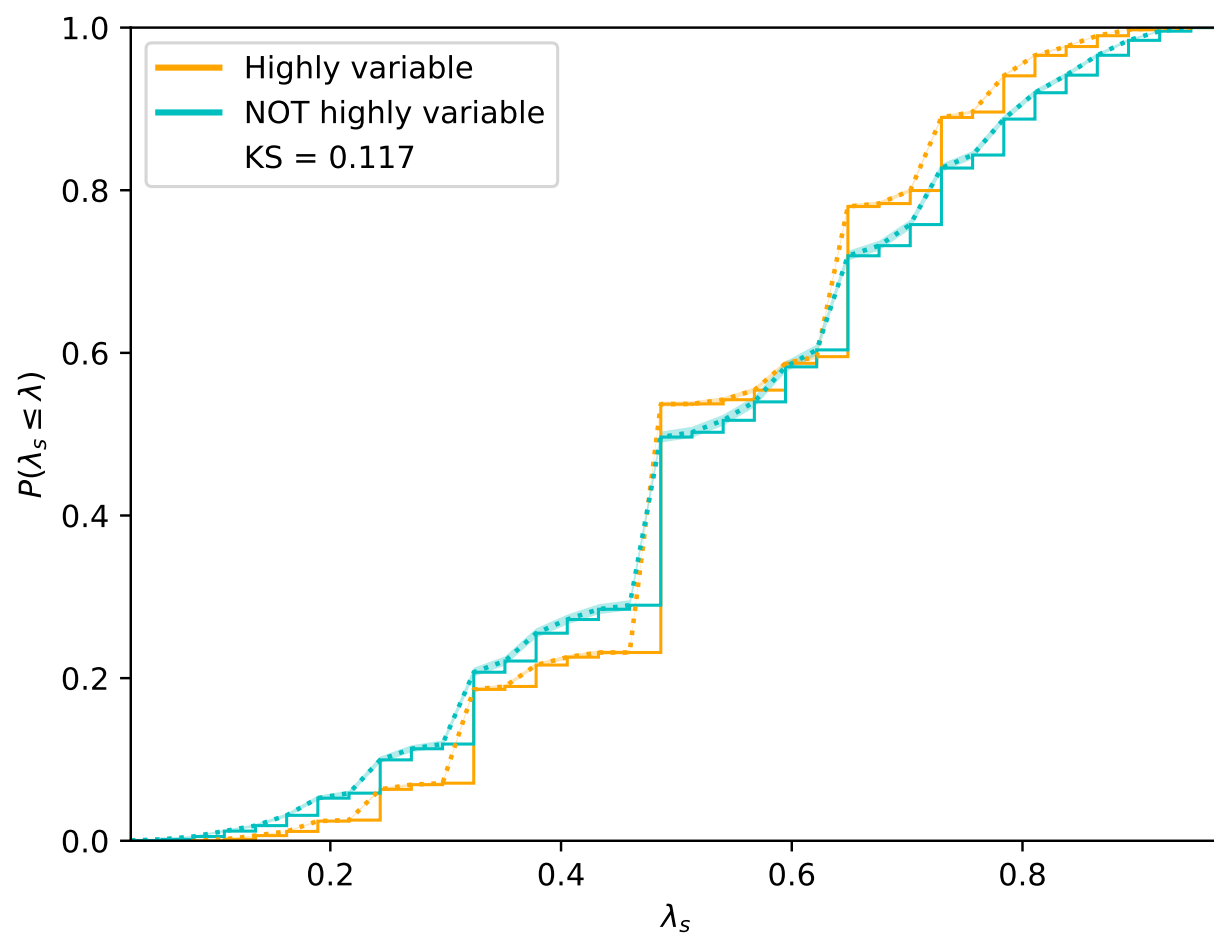


Figure 20: Unproductive motivation level.

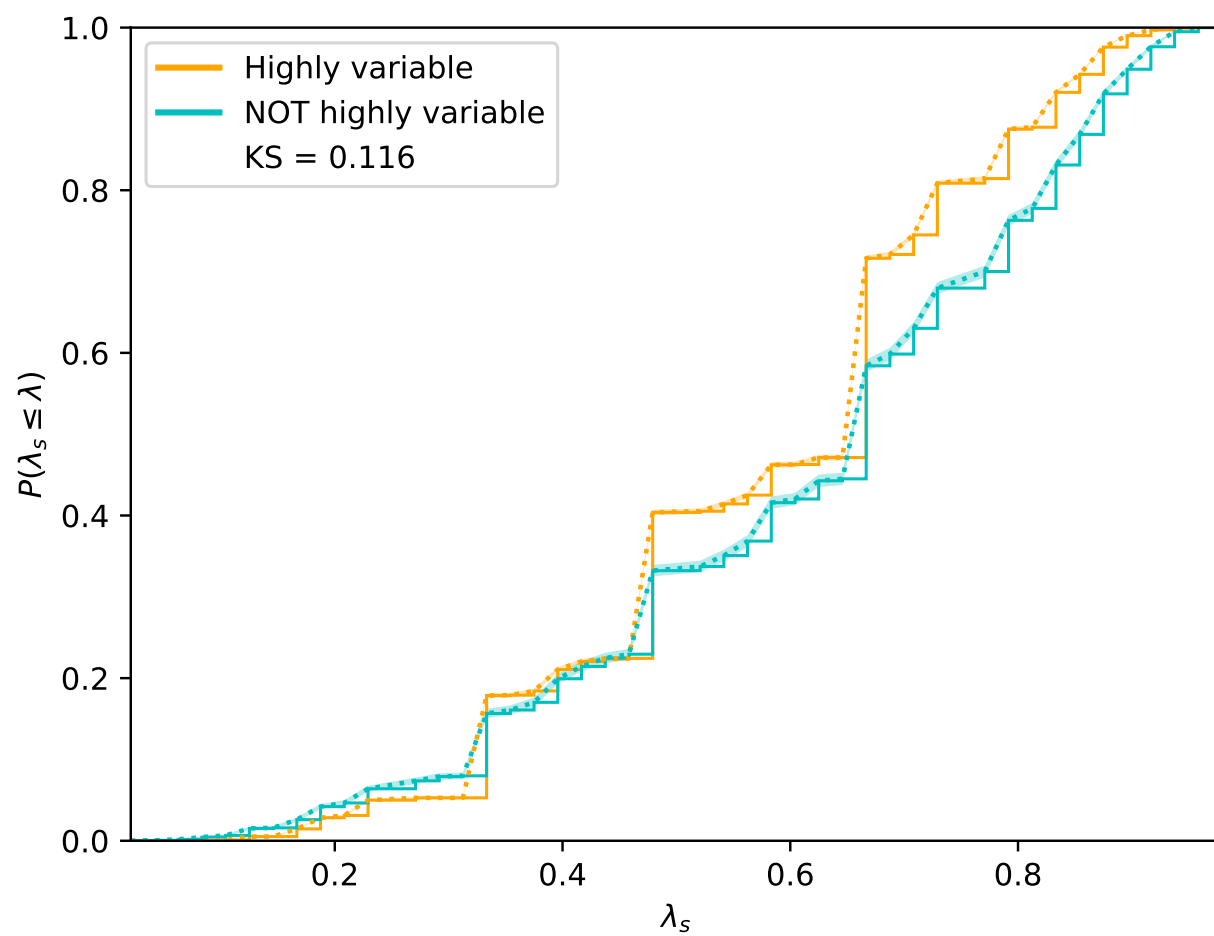


Figure 21: Bloated digestive health.

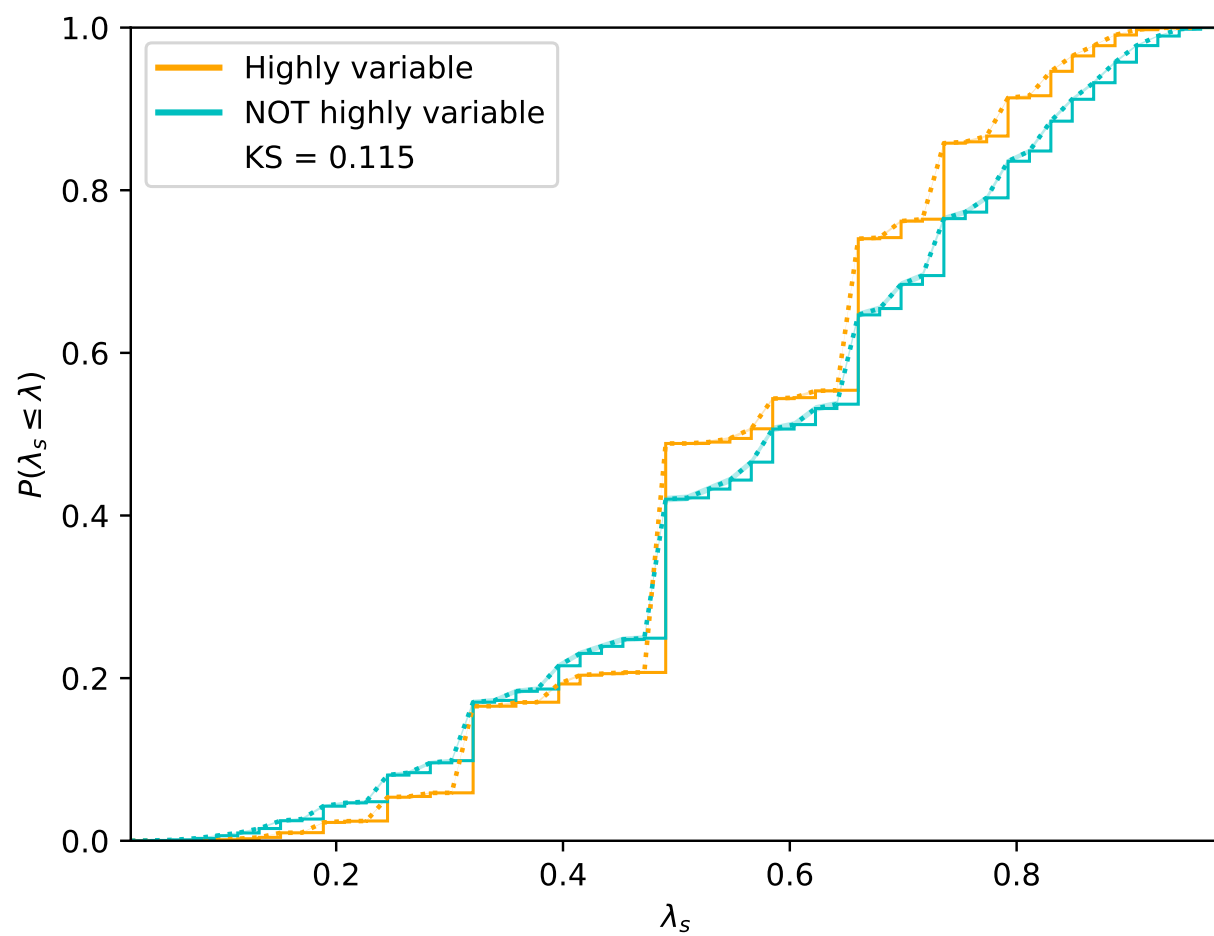


Figure 22: Sensitive emotional state.

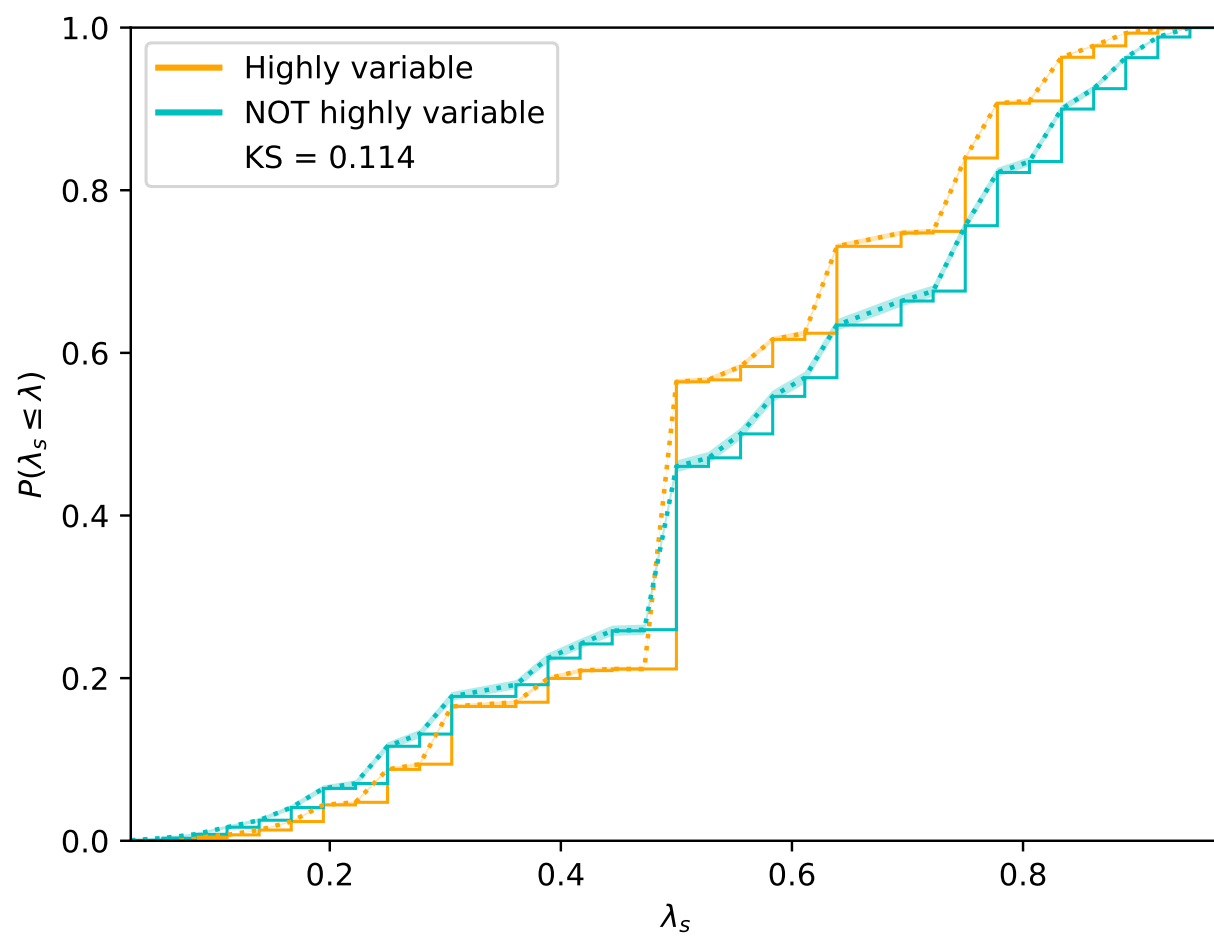


Figure 23: Gassy digestive health.

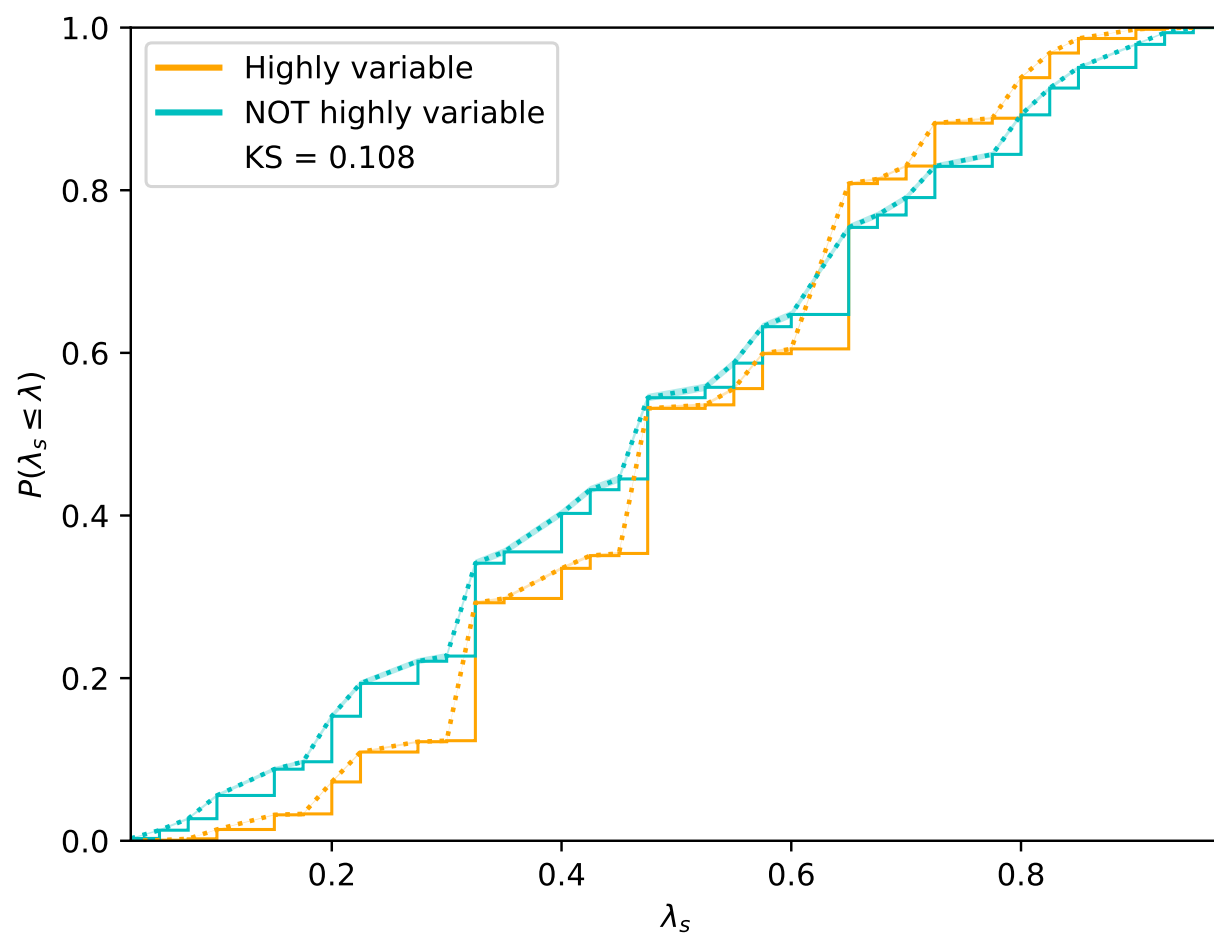


Figure 24: Happy emotional state.

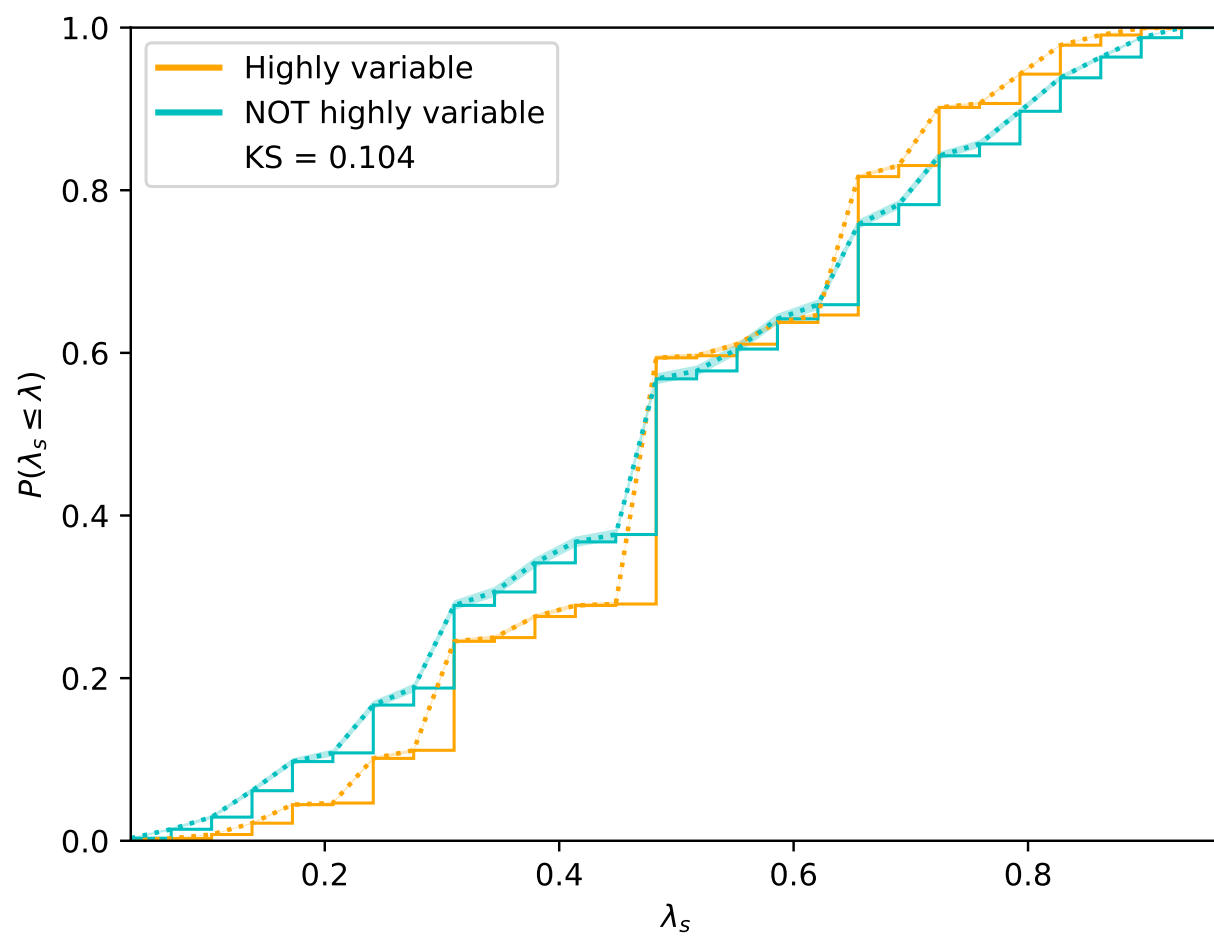


Figure 25: Calm mental state.

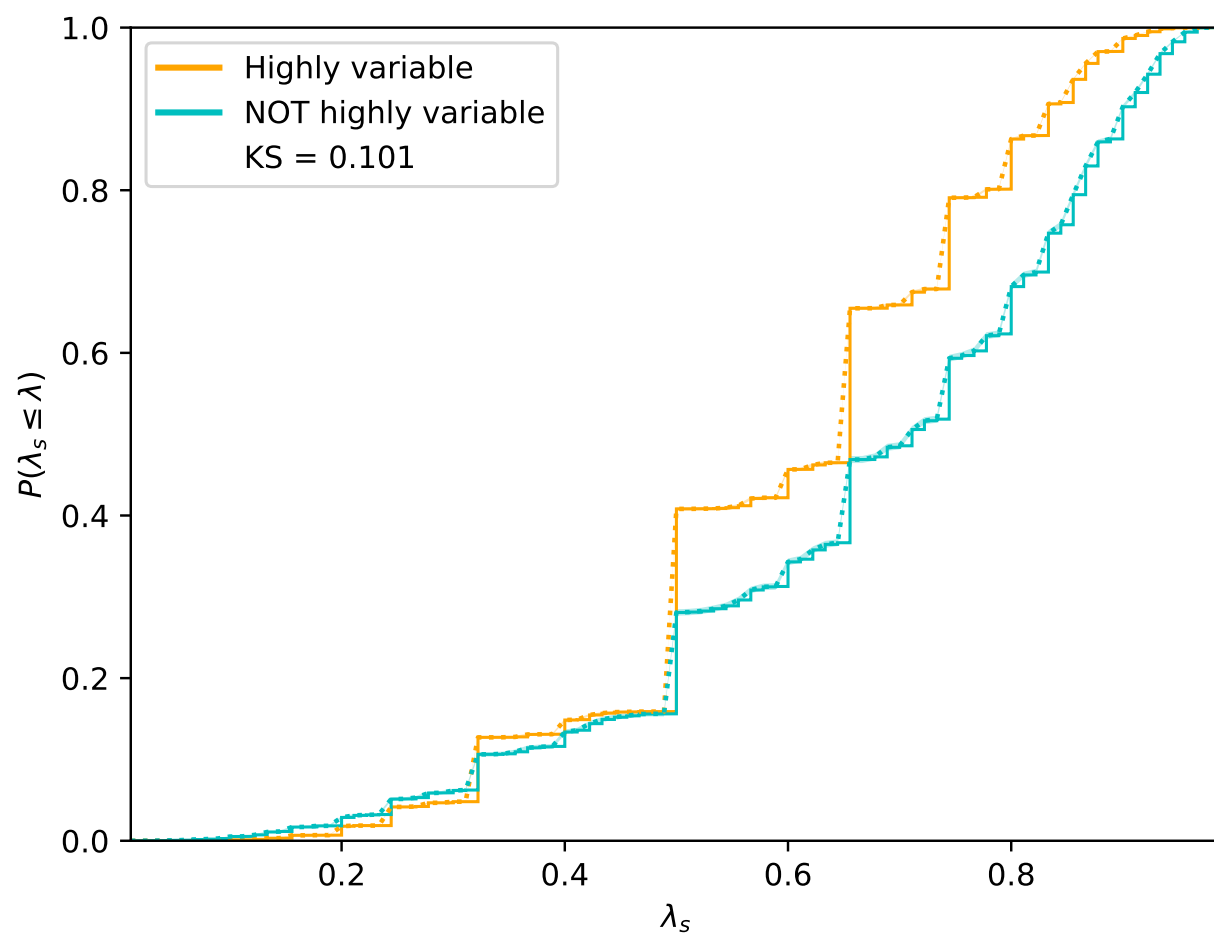


Figure 26: Cramps pain experienced.

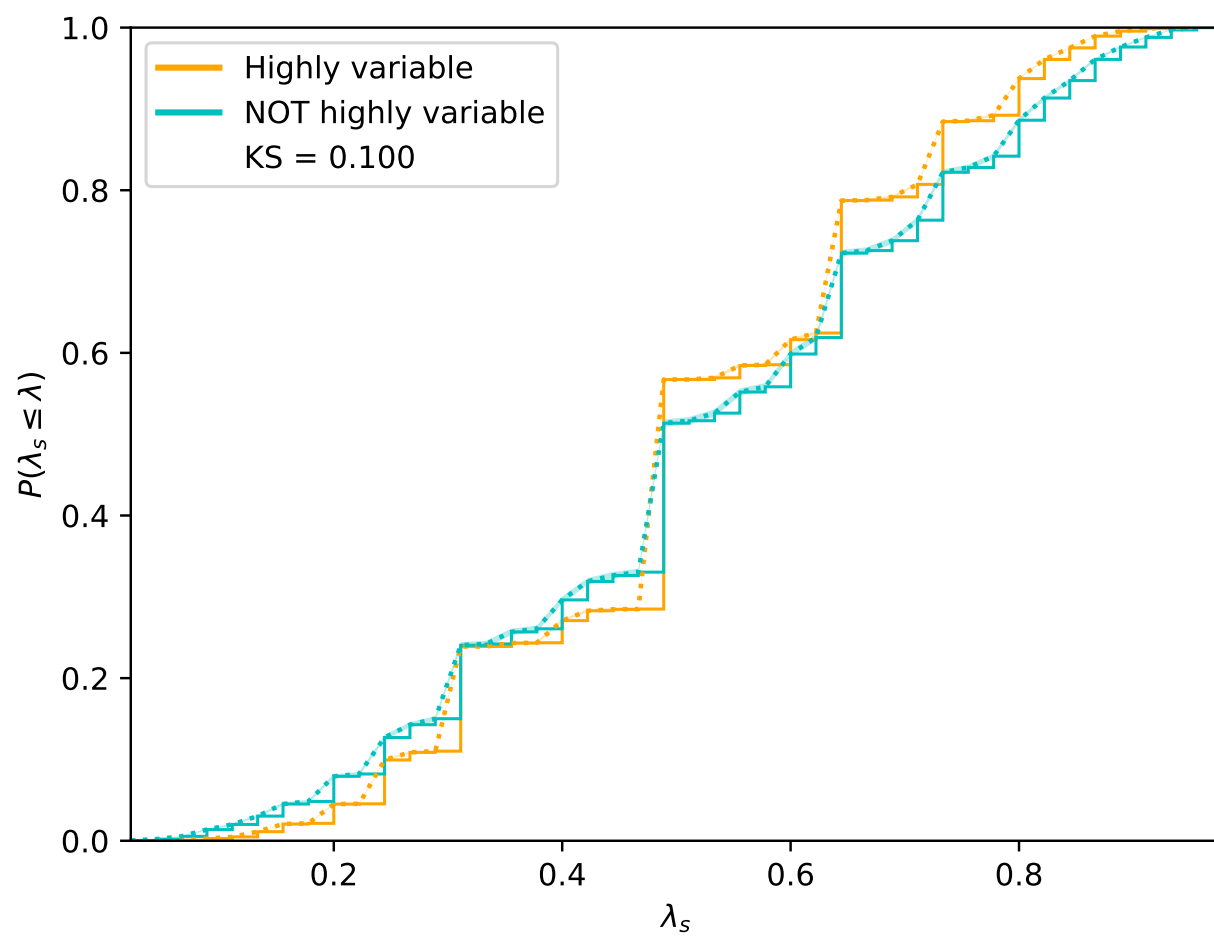


Figure 27: 3-6 hours of sleep.

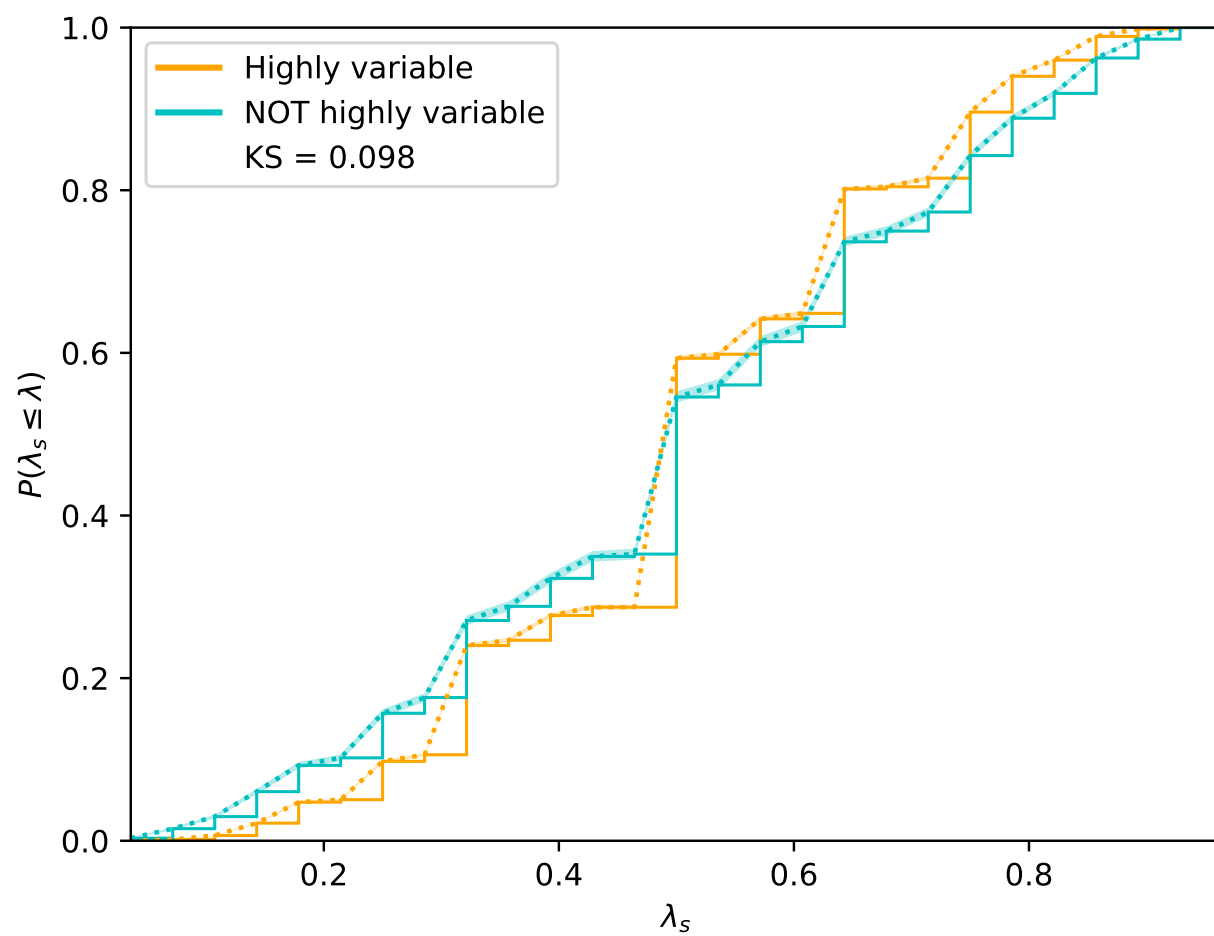


Figure 28: Carbs food craving experienced.

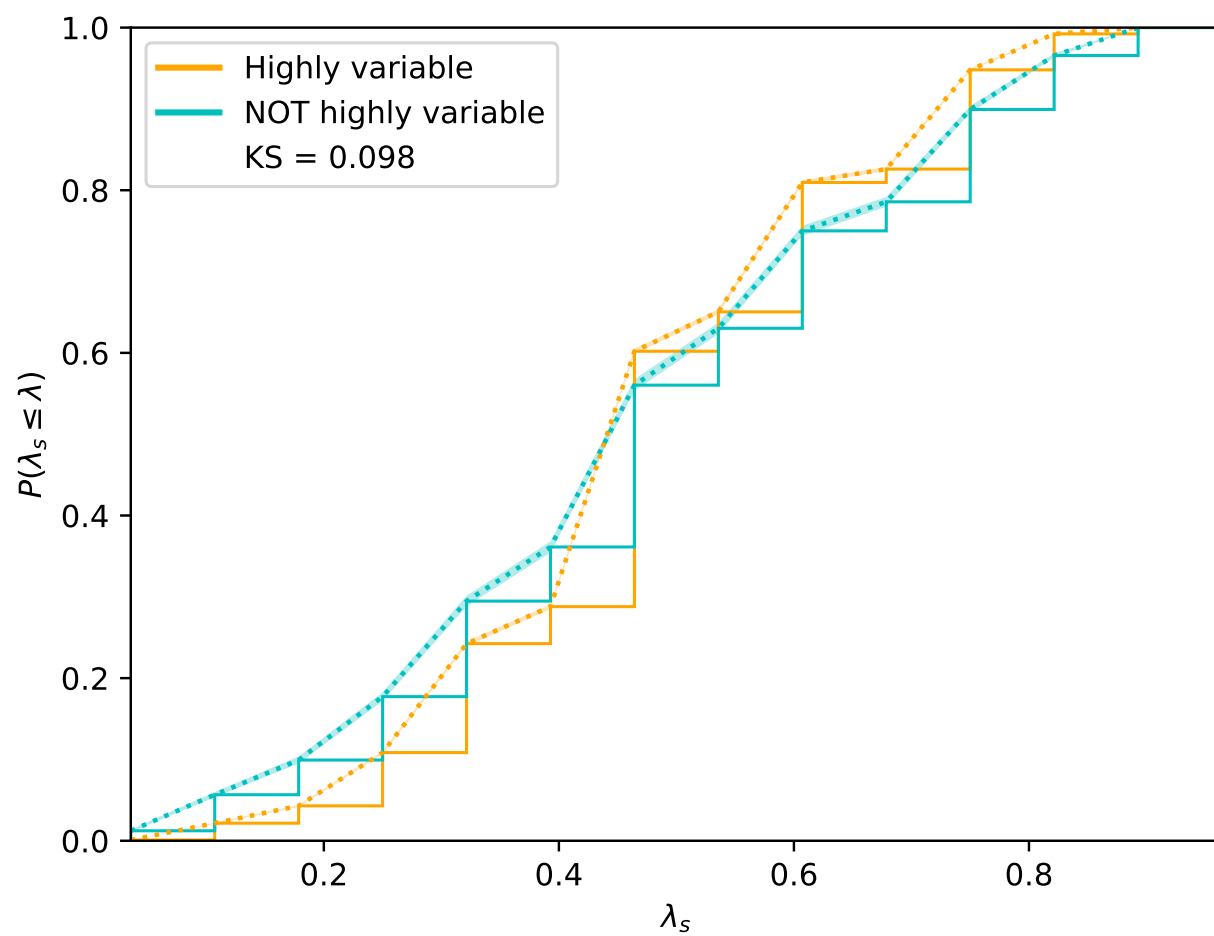


Figure 29: Motivated motivation level.

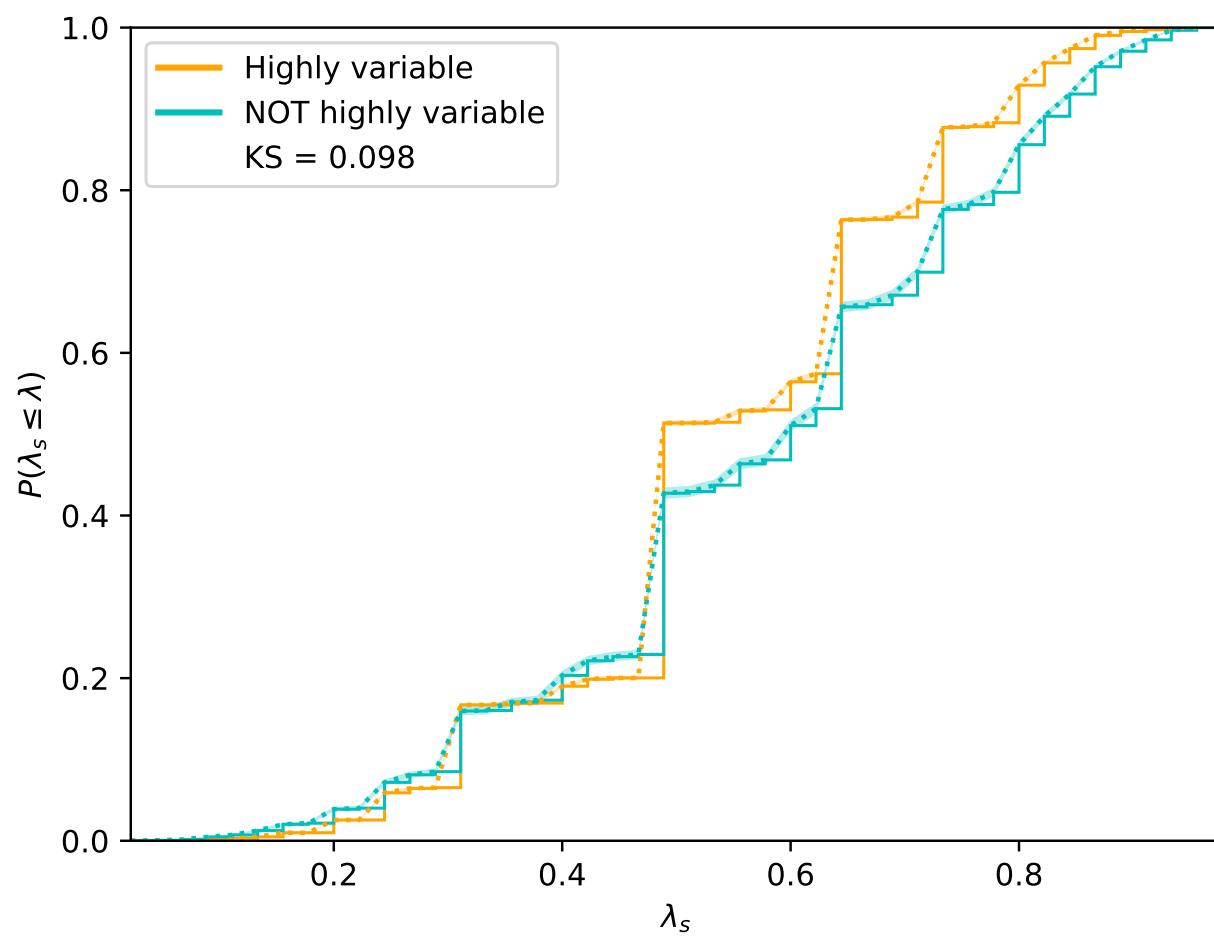


Figure 30: Unmotivated motivation level.

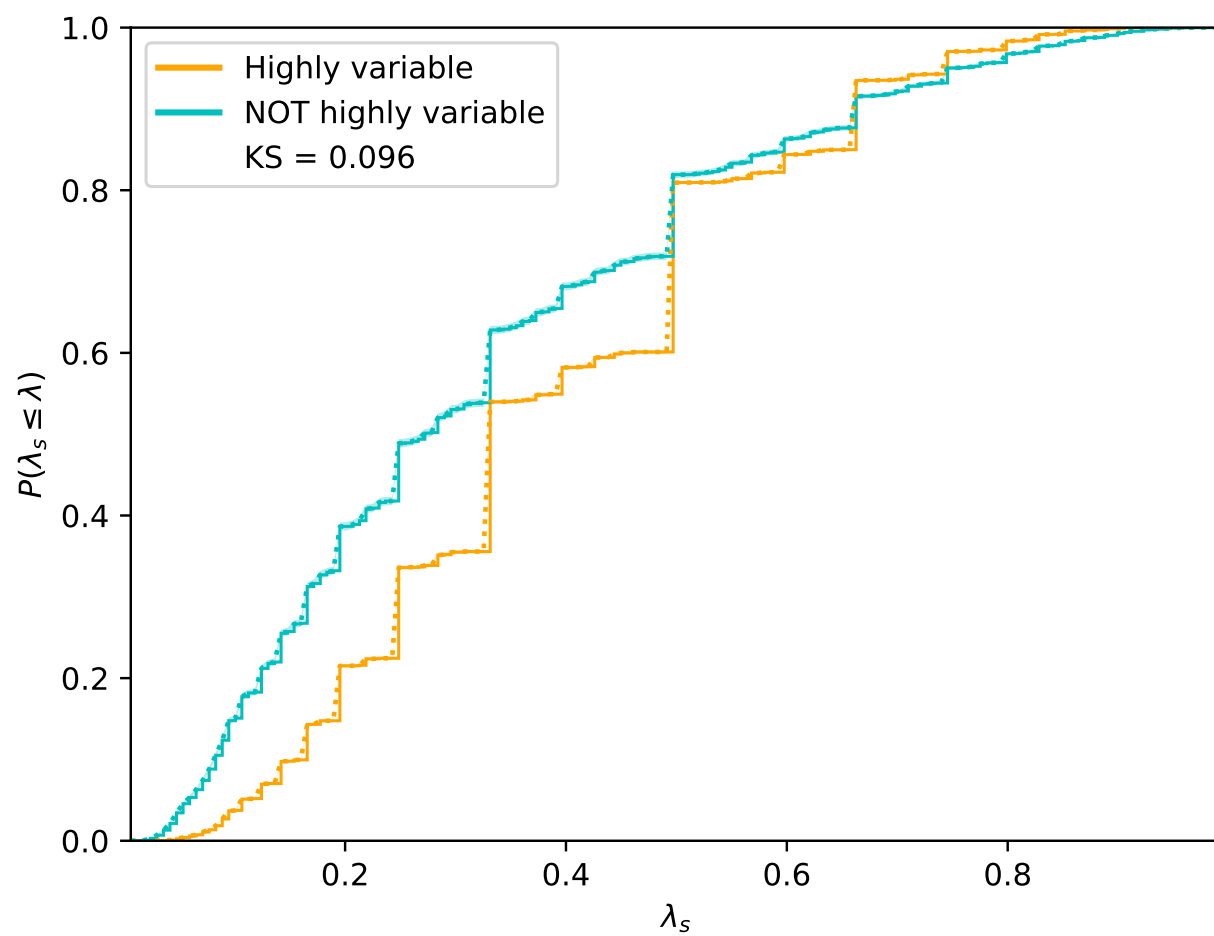


Figure 31: Ovulation pain experienced.

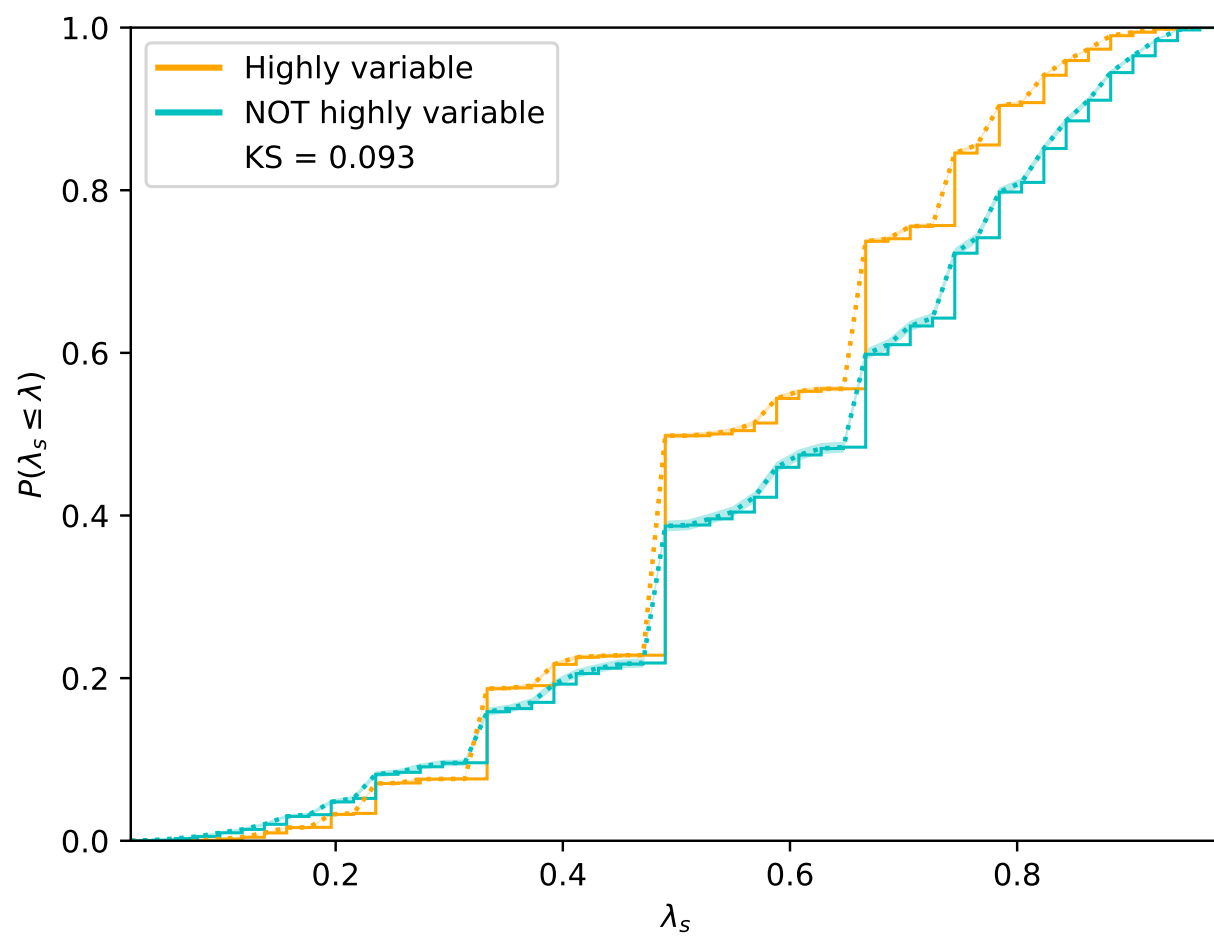


Figure 32: Acne skin health reported.

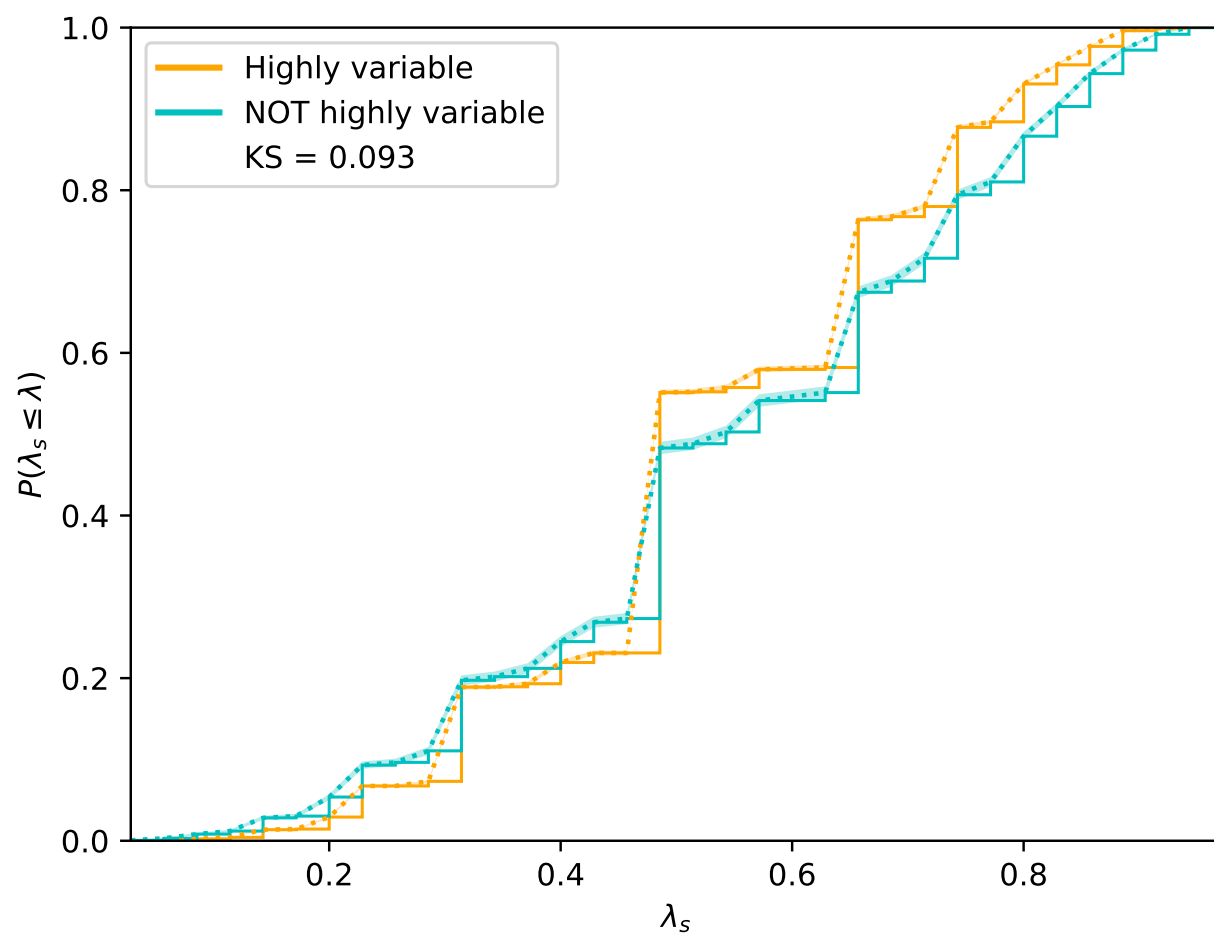


Figure 33: Withdrawn social behavior.

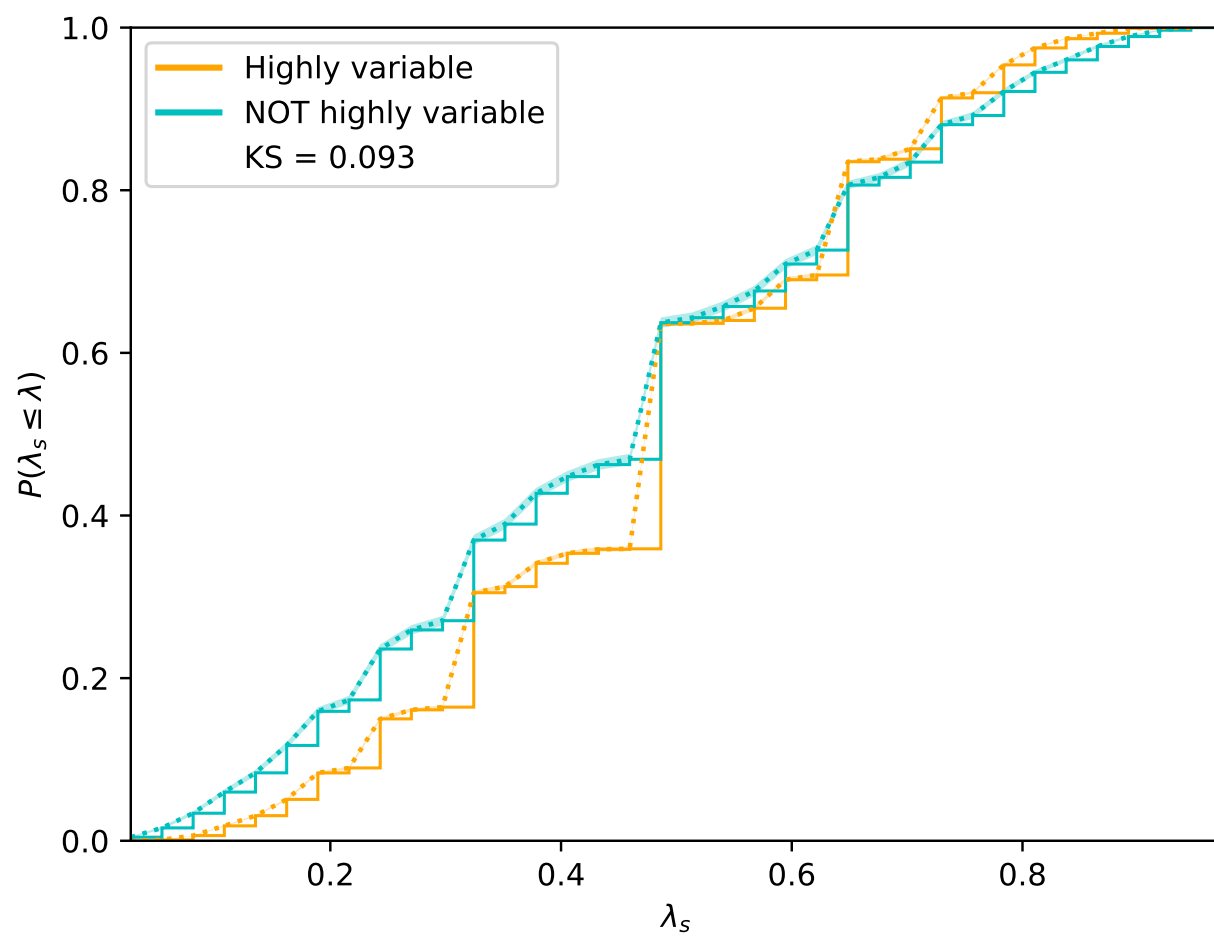


Figure 34: Oily skin health reported.

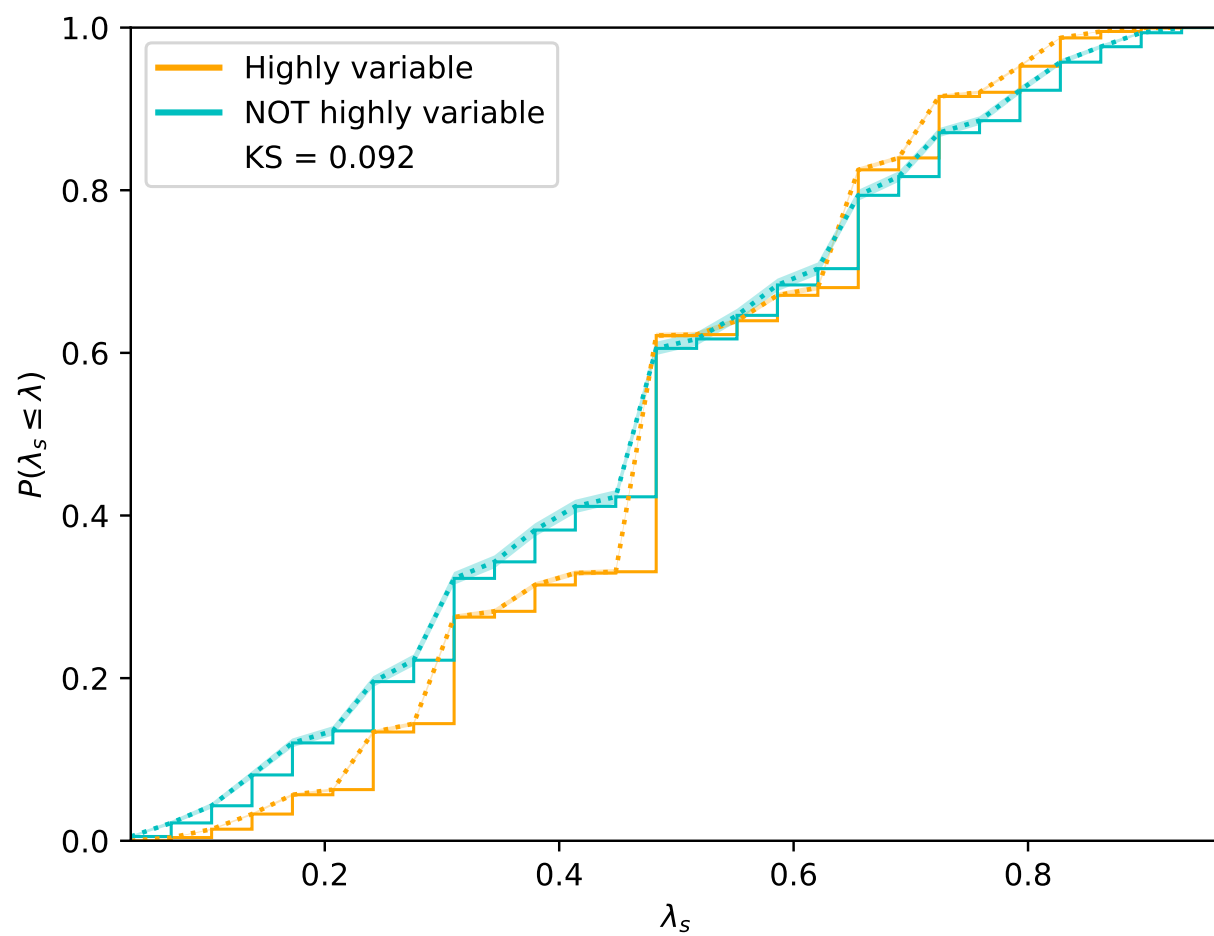


Figure 35: Bad hair reported.

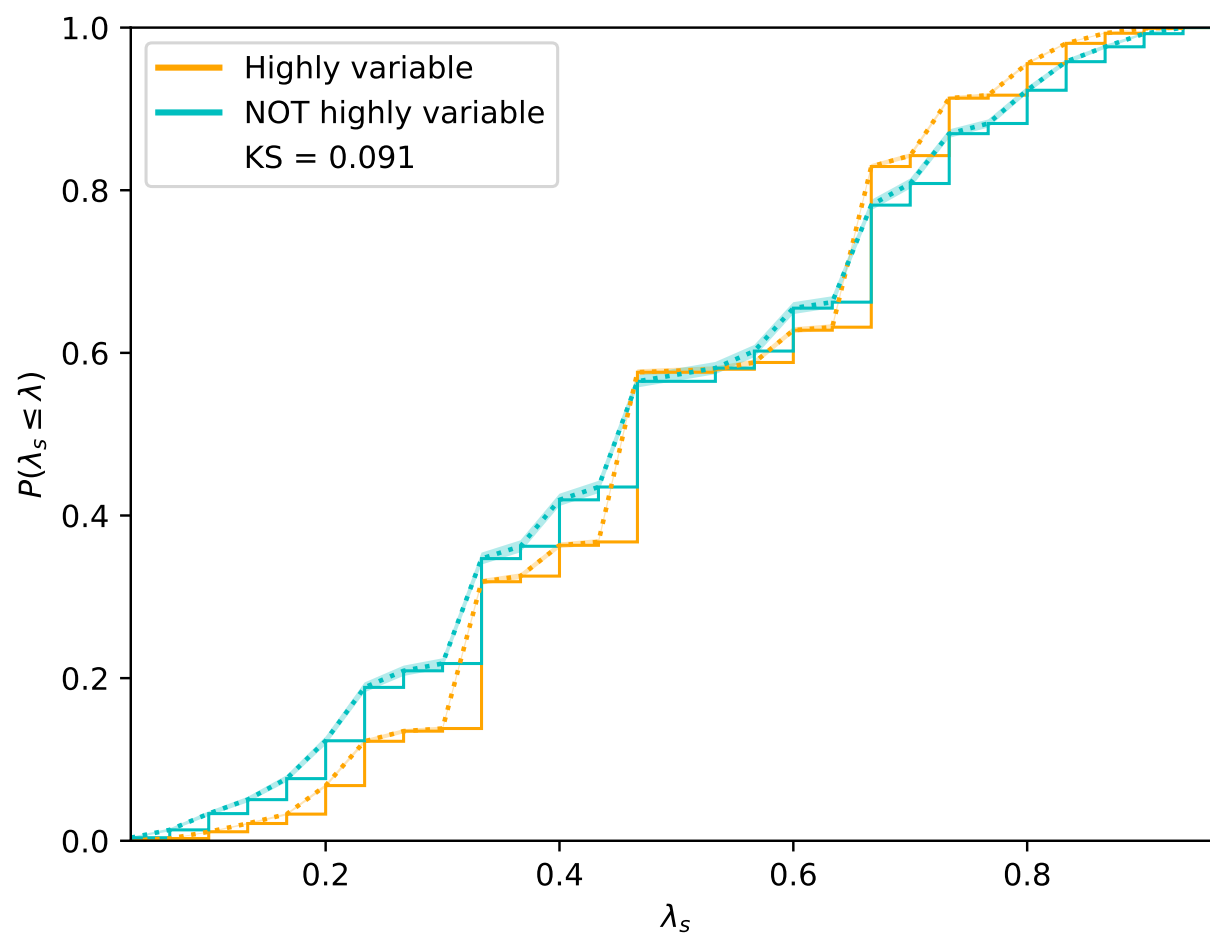


Figure 36: Creamy vaginal discharge type.

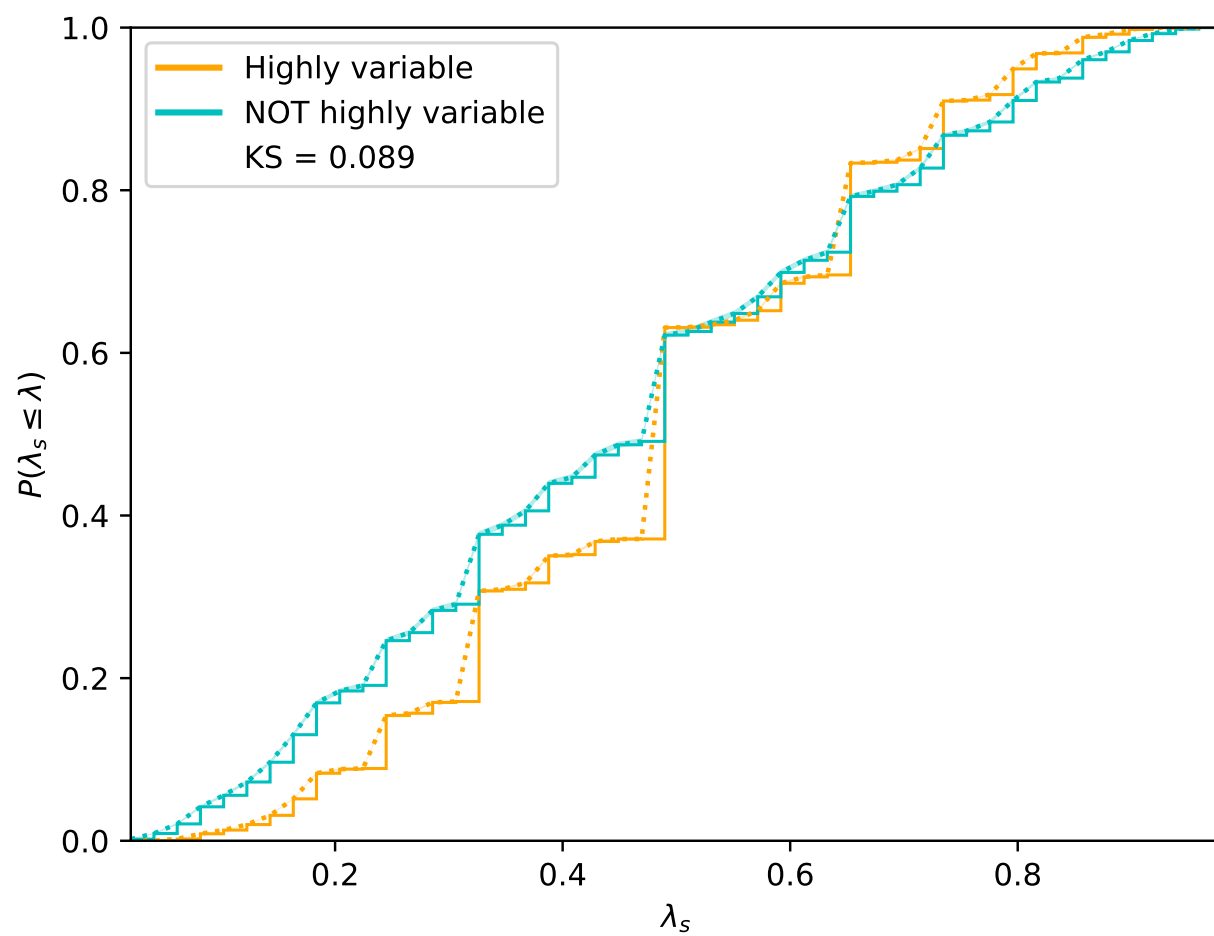


Figure 37: Headache pain experienced.

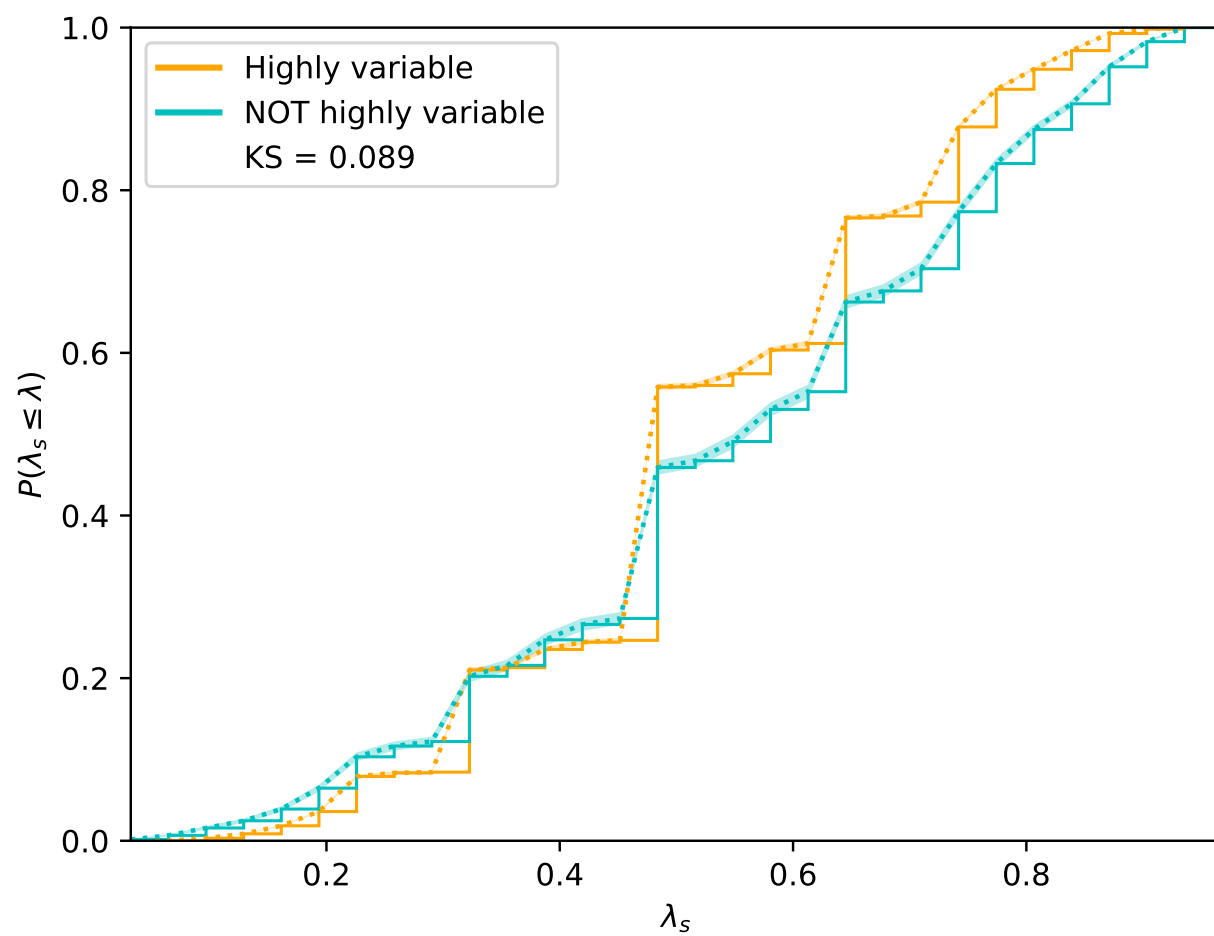


Figure 38: Good hair reported.

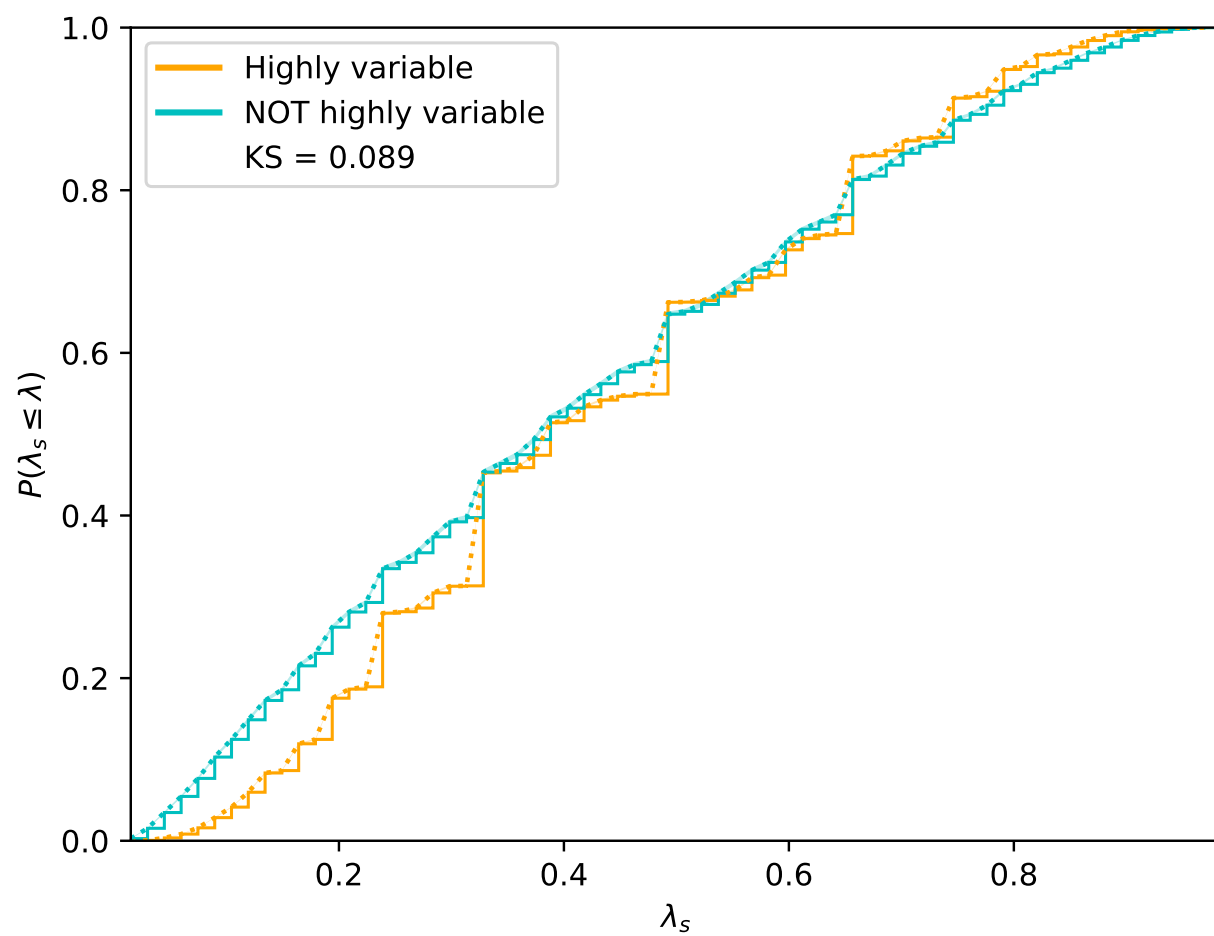


Figure 39: Spotting period flow.

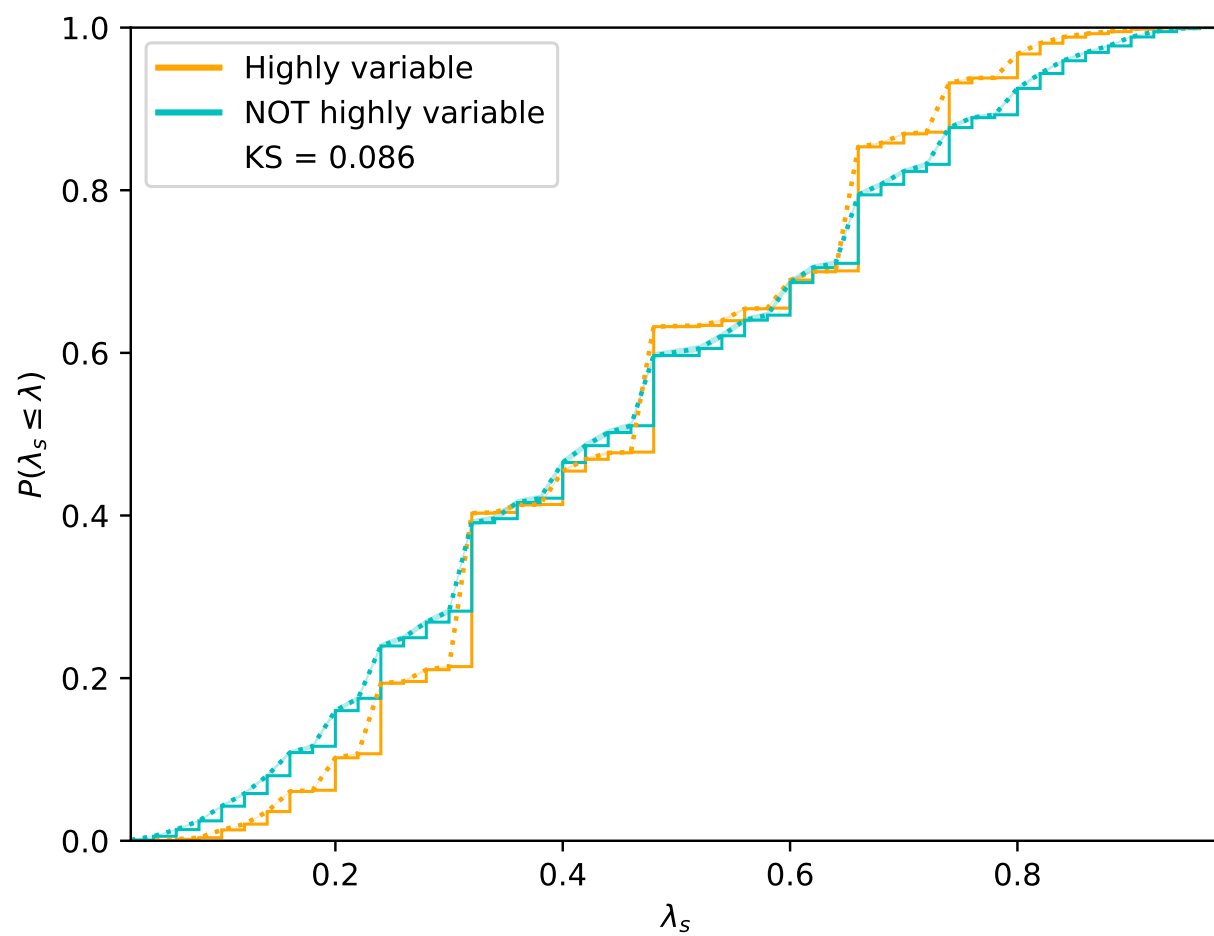


Figure 40: PMS emotional state.

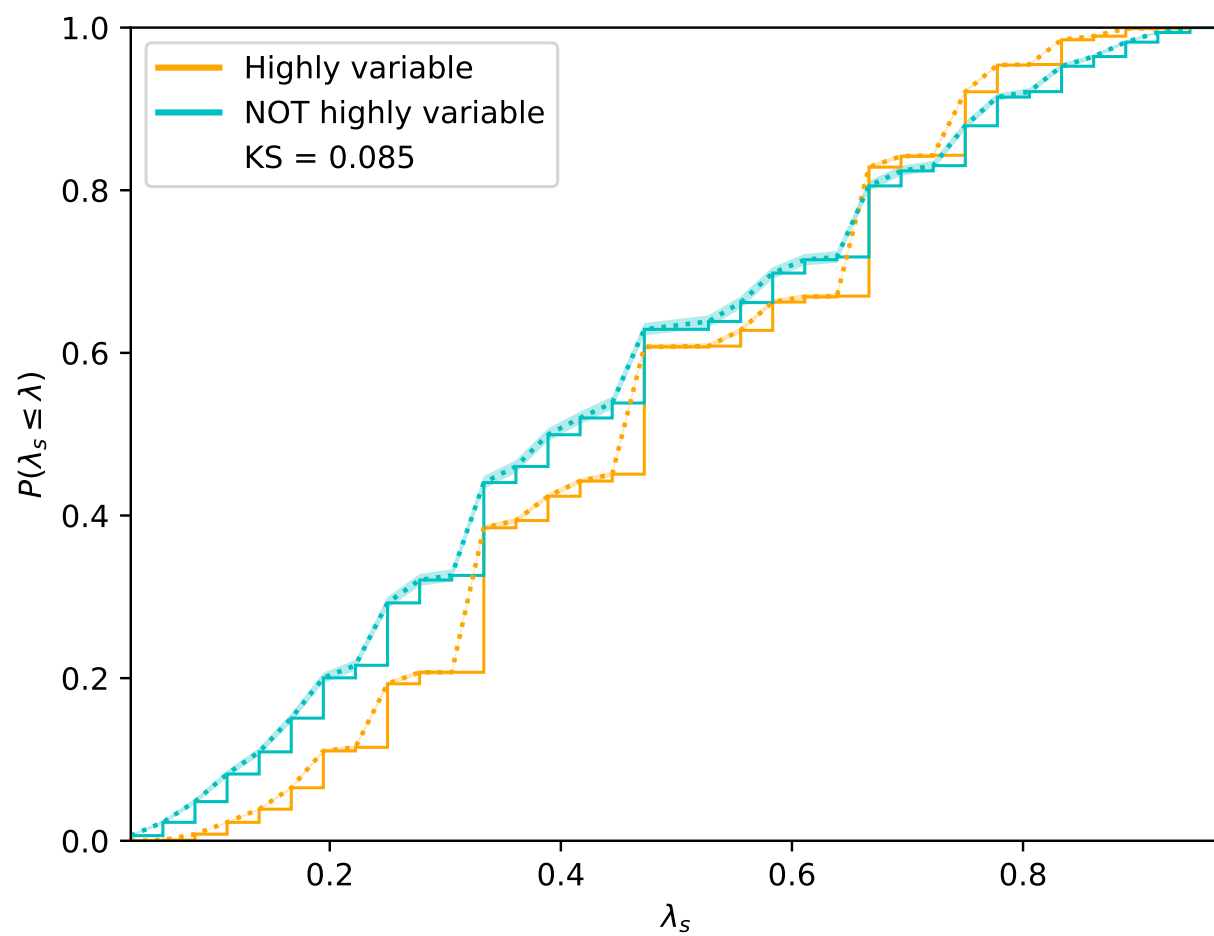


Figure 41: Great digestive health.

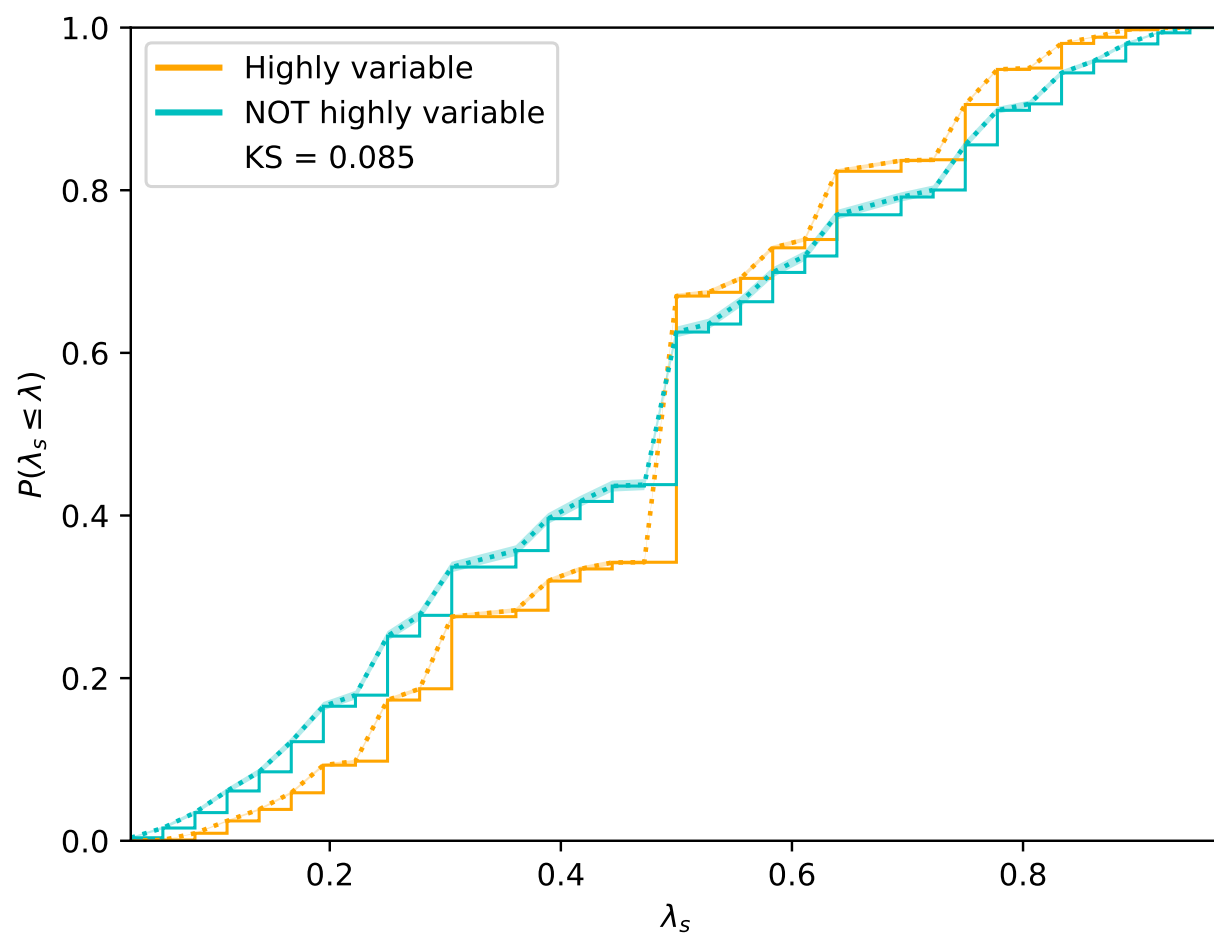


Figure 42: Good skin health reported.

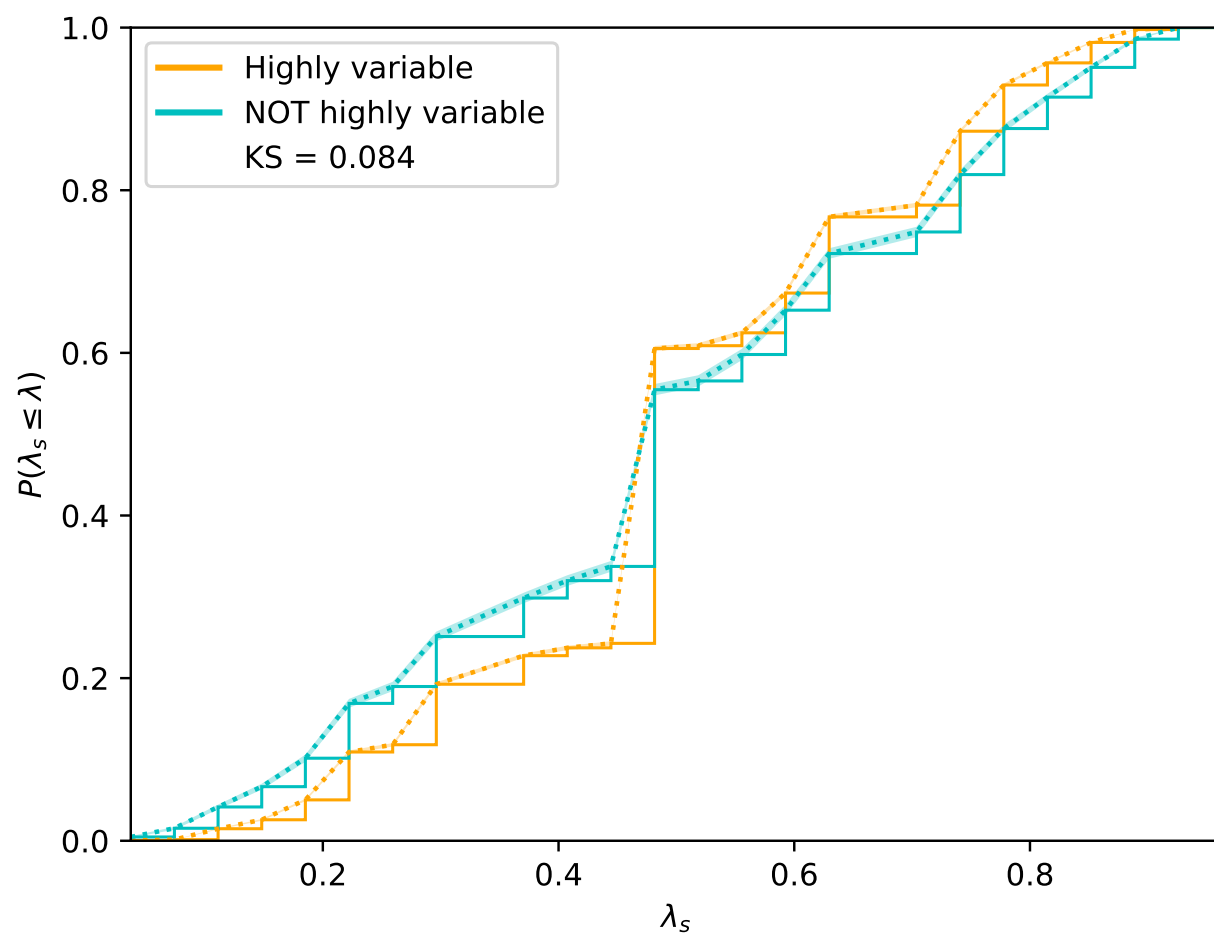


Figure 43: Salty food craving experienced.

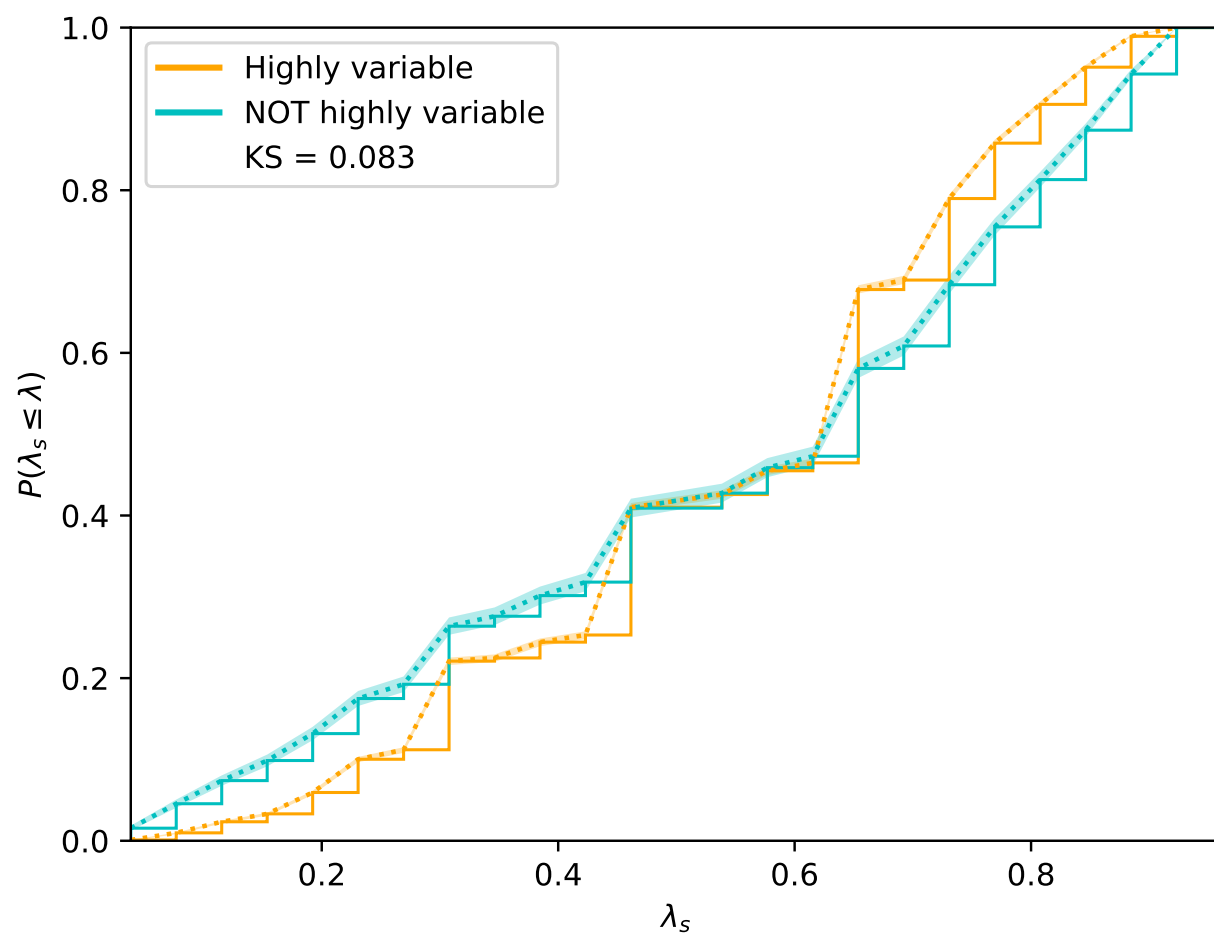


Figure 44: Pad method used for period collection.

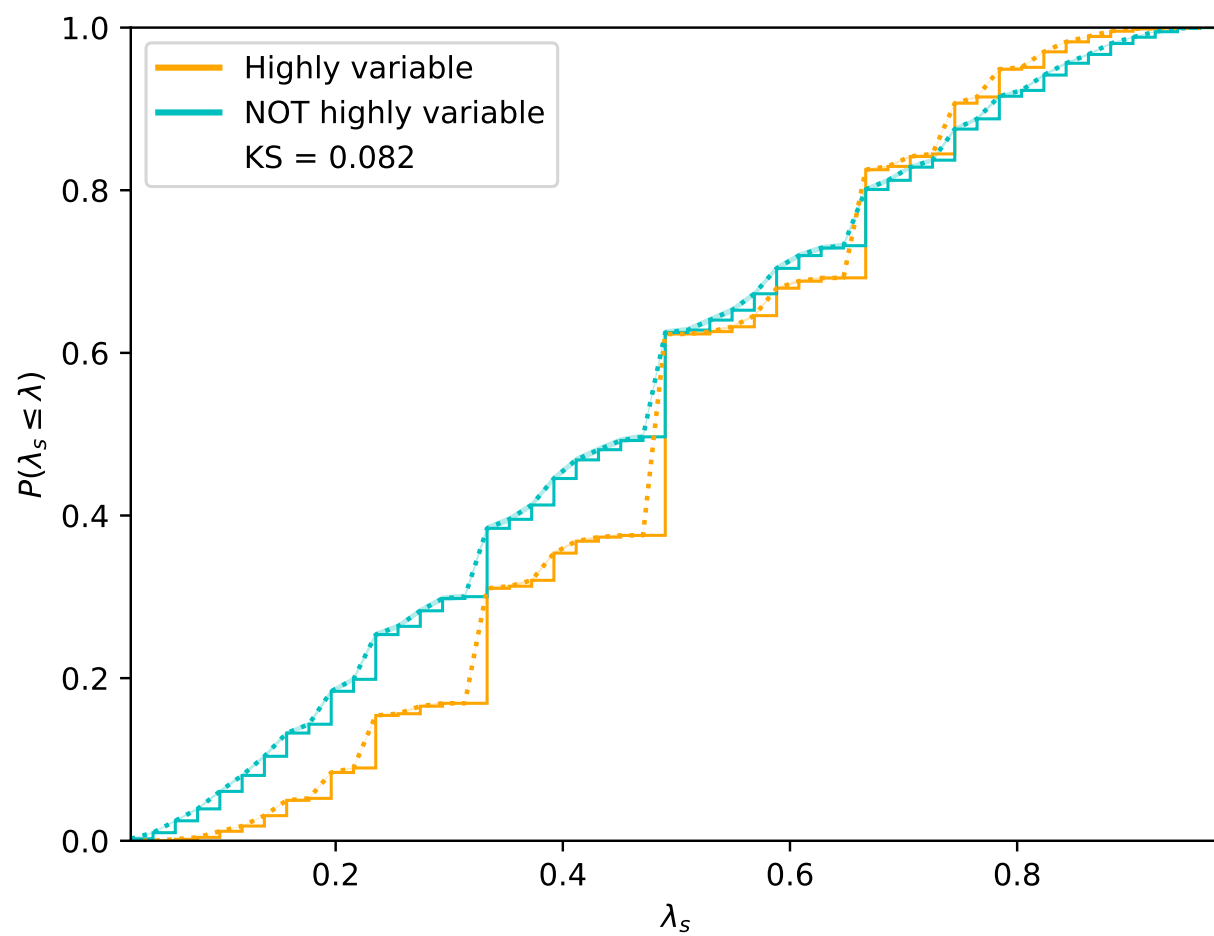


Figure 45: Tender breasts pain experienced.

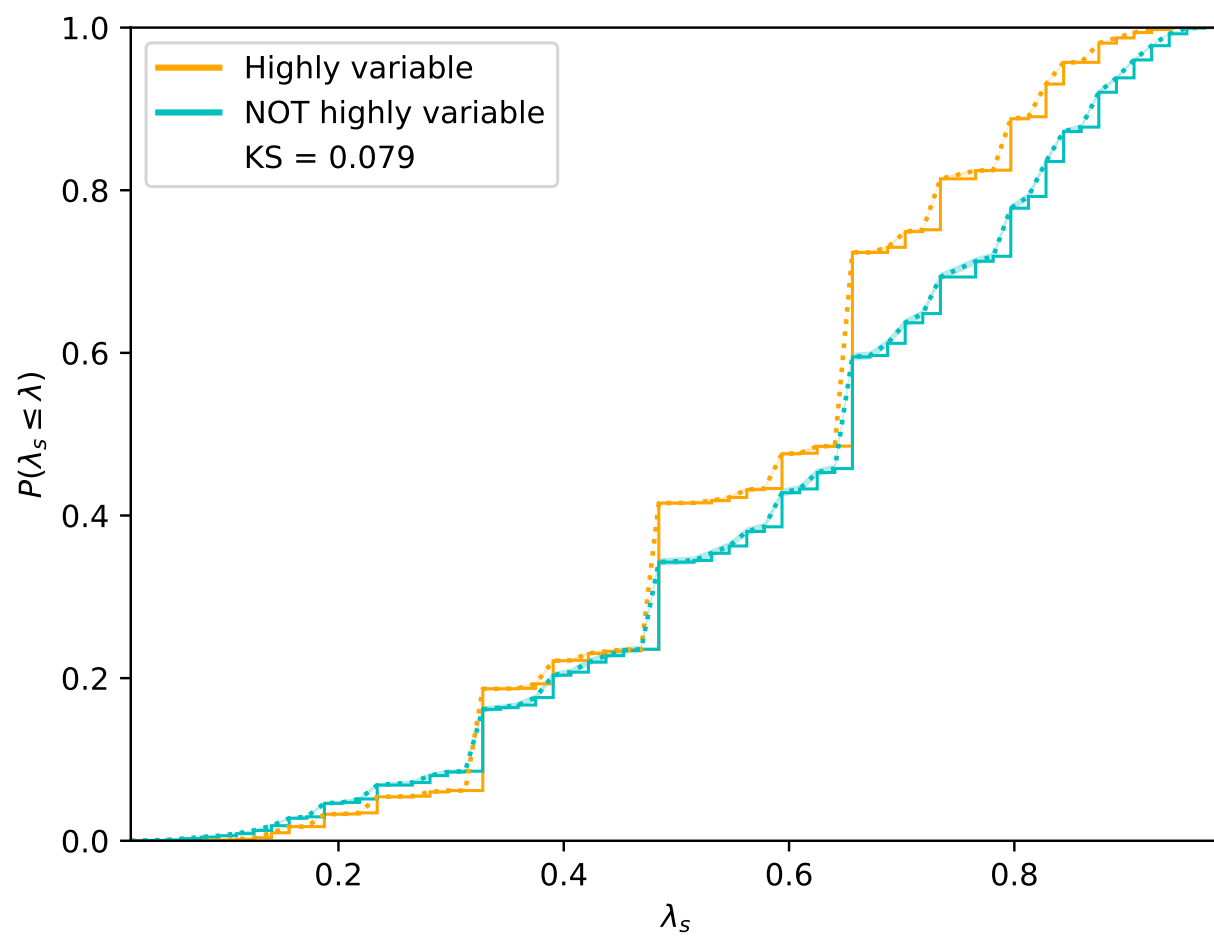


Figure 46: 6-9 hours of sleep.

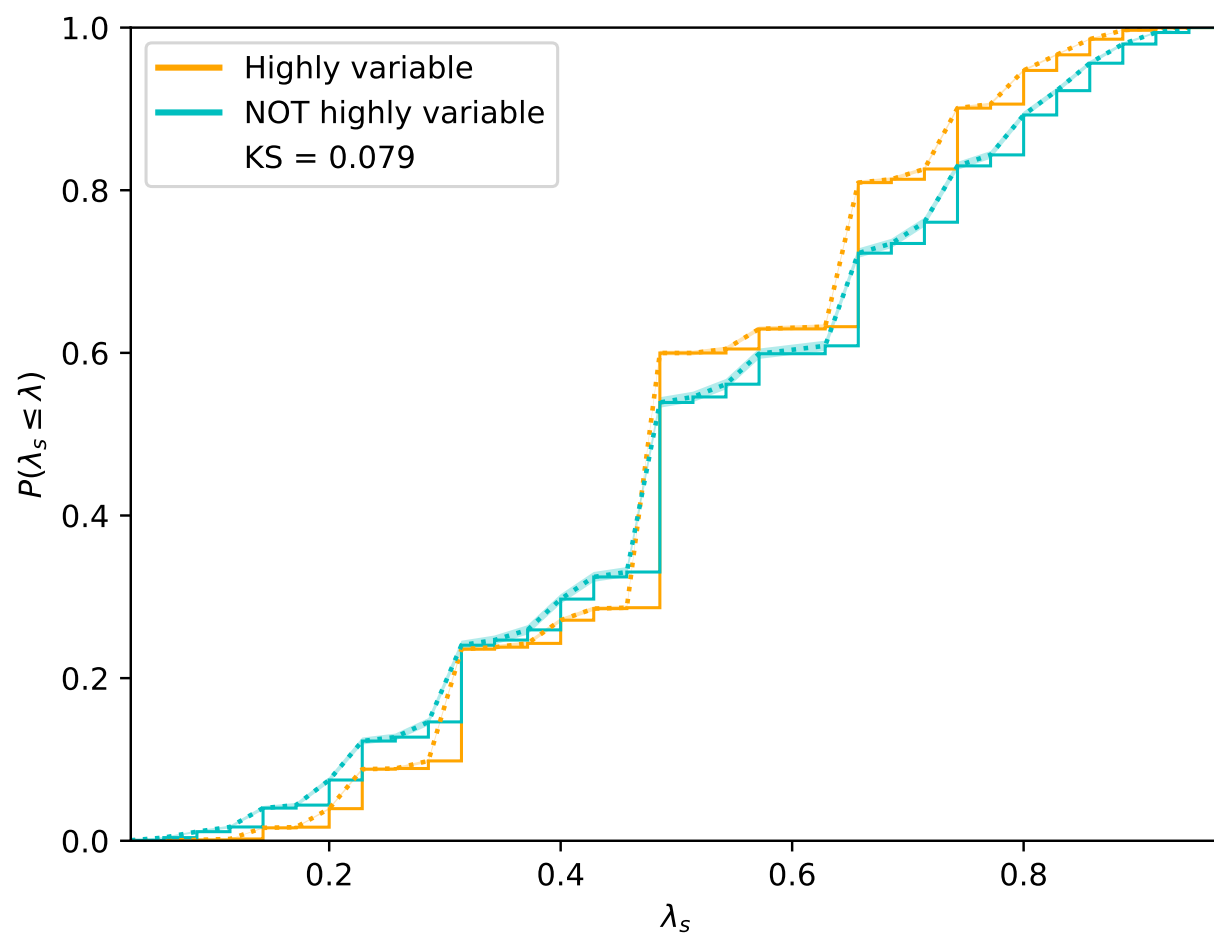


Figure 47: Stressed mental state.

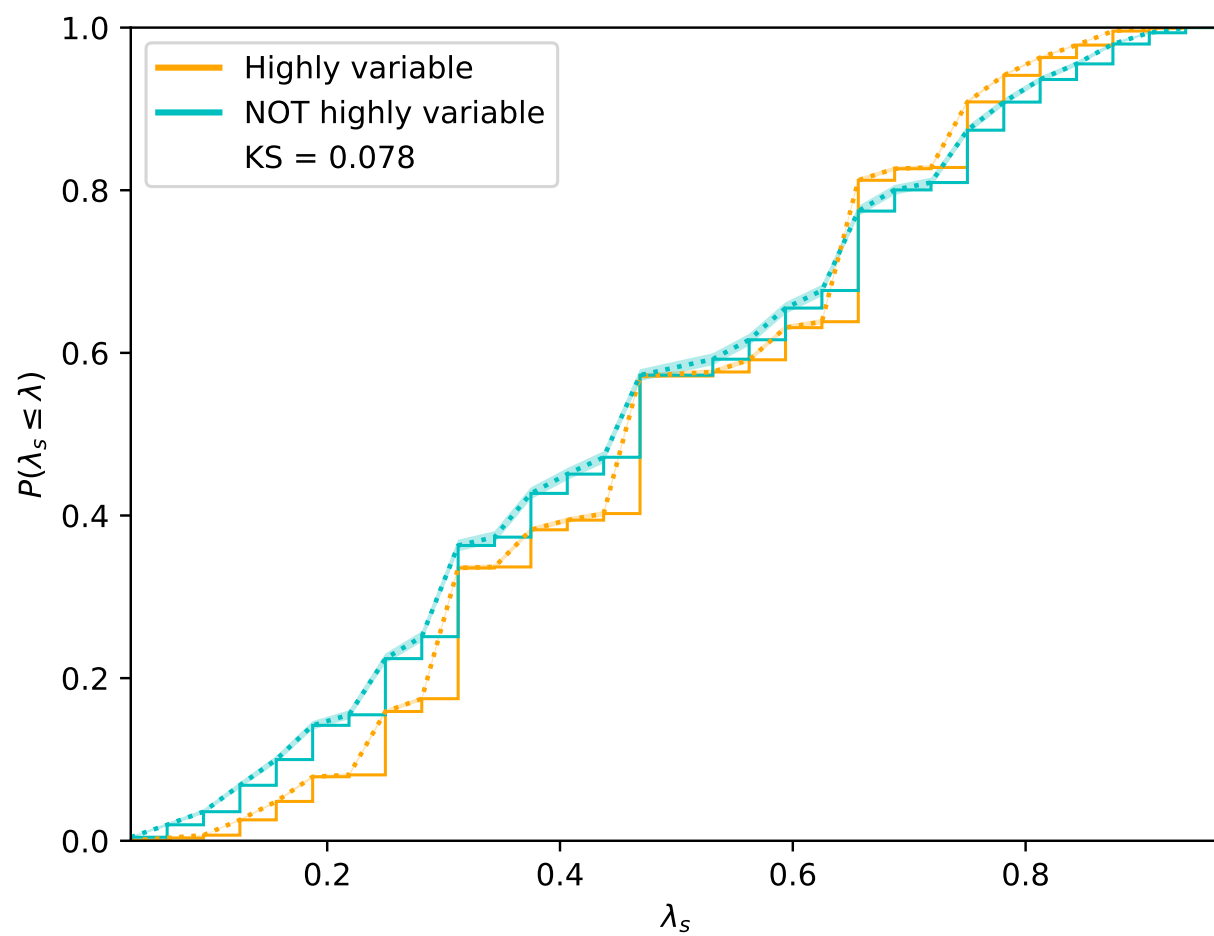


Figure 48: Constipated stool health.

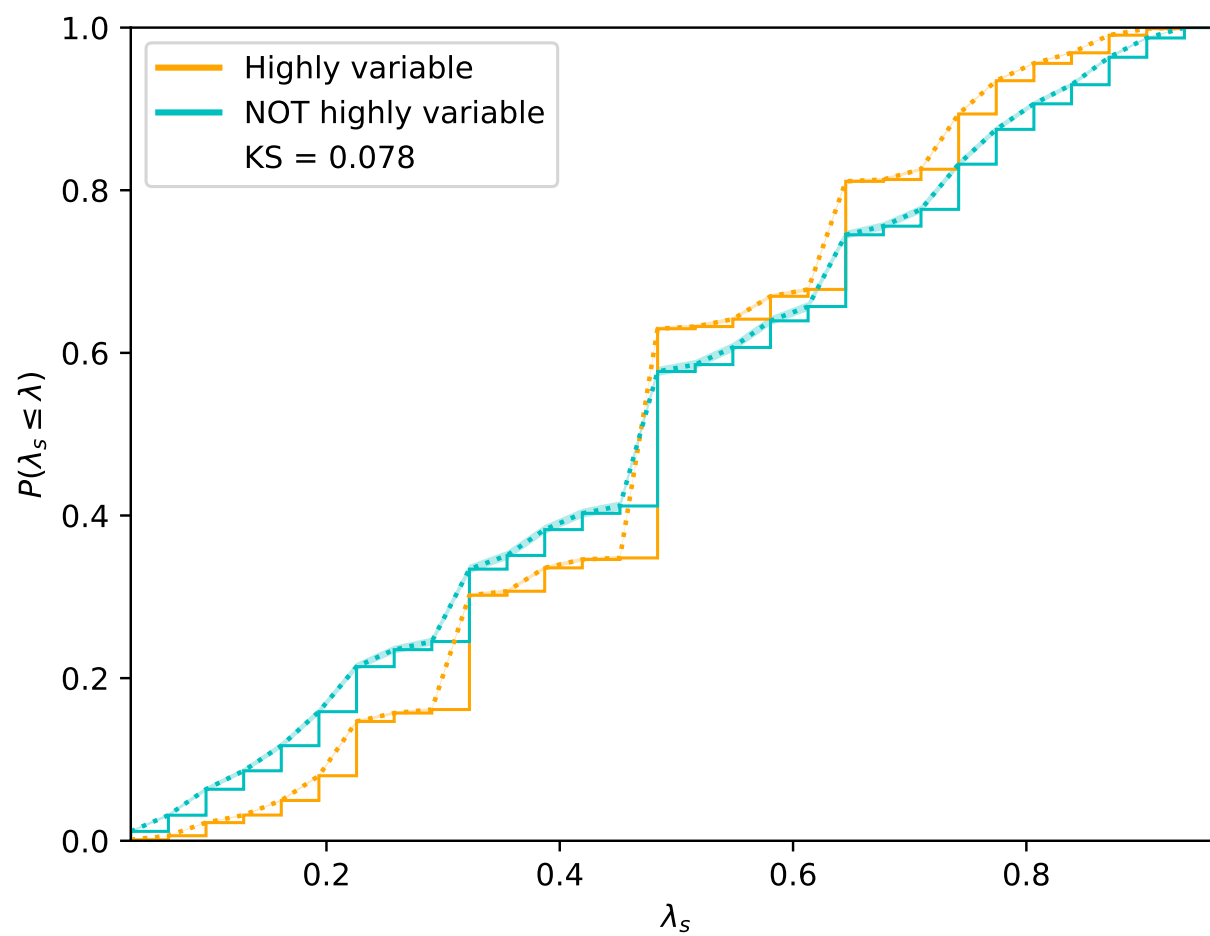


Figure 49: Unprotected sex reported.

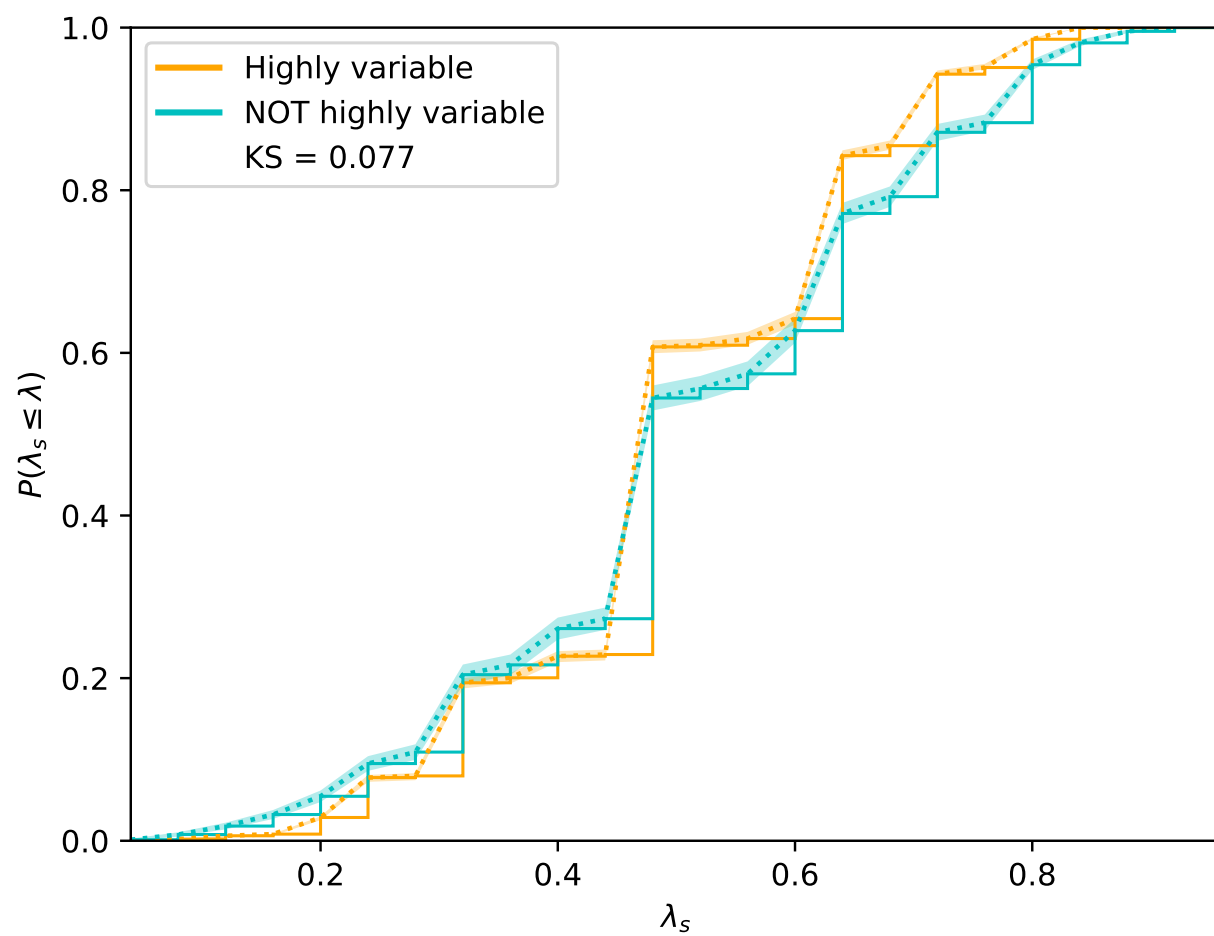


Figure 50: Physical maladies: cold/flu.

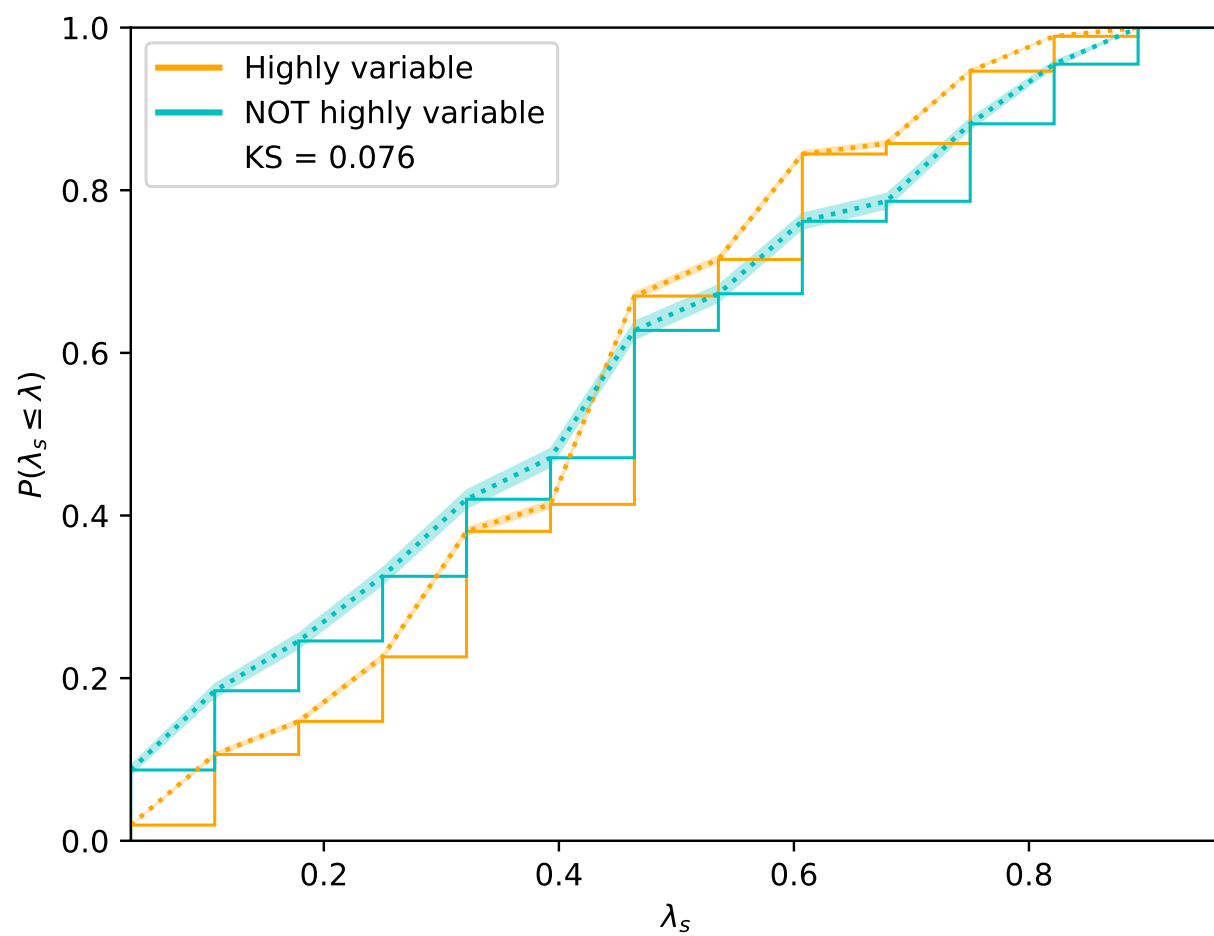


Figure 51: Tampon method used for period collection.

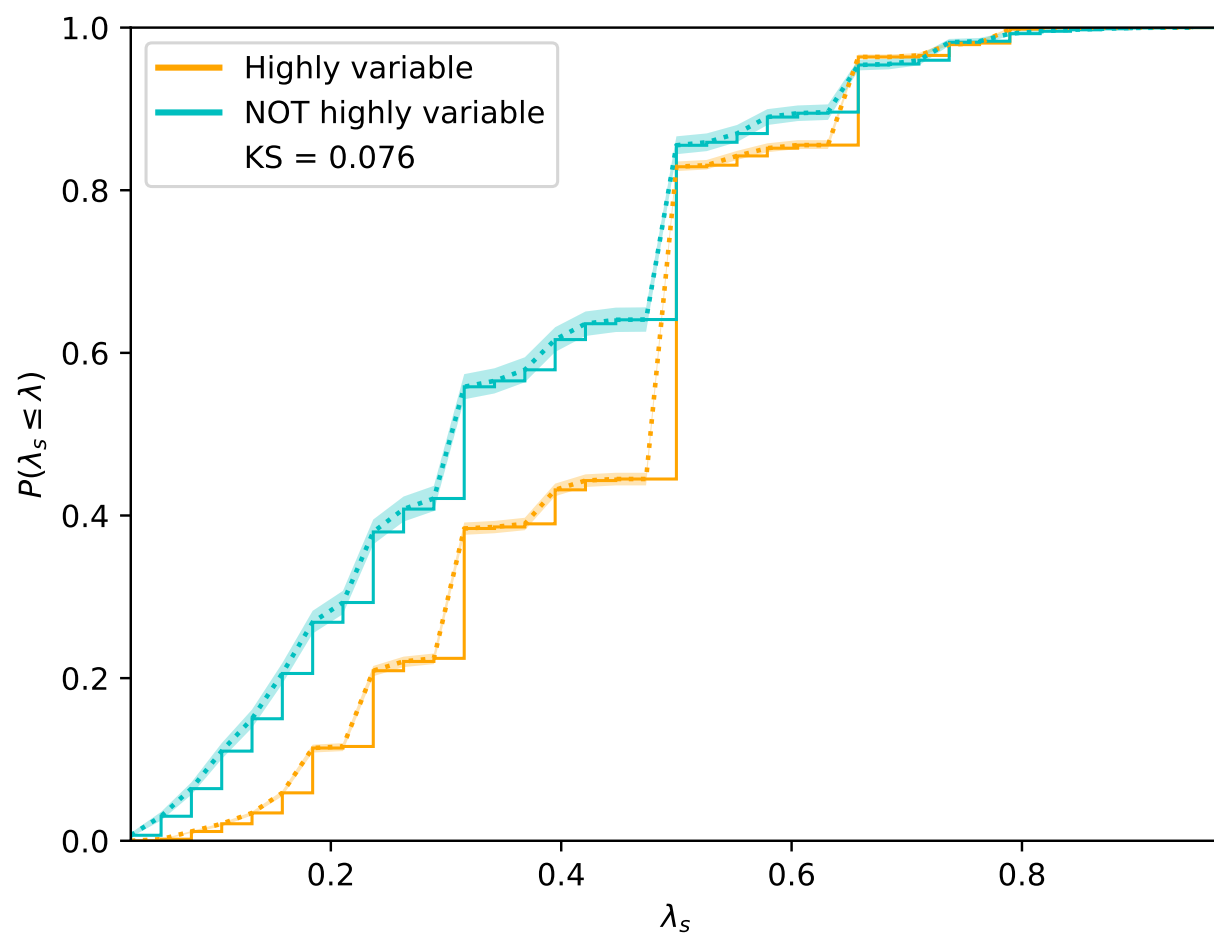


Figure 52: Cold/flu medication taken.

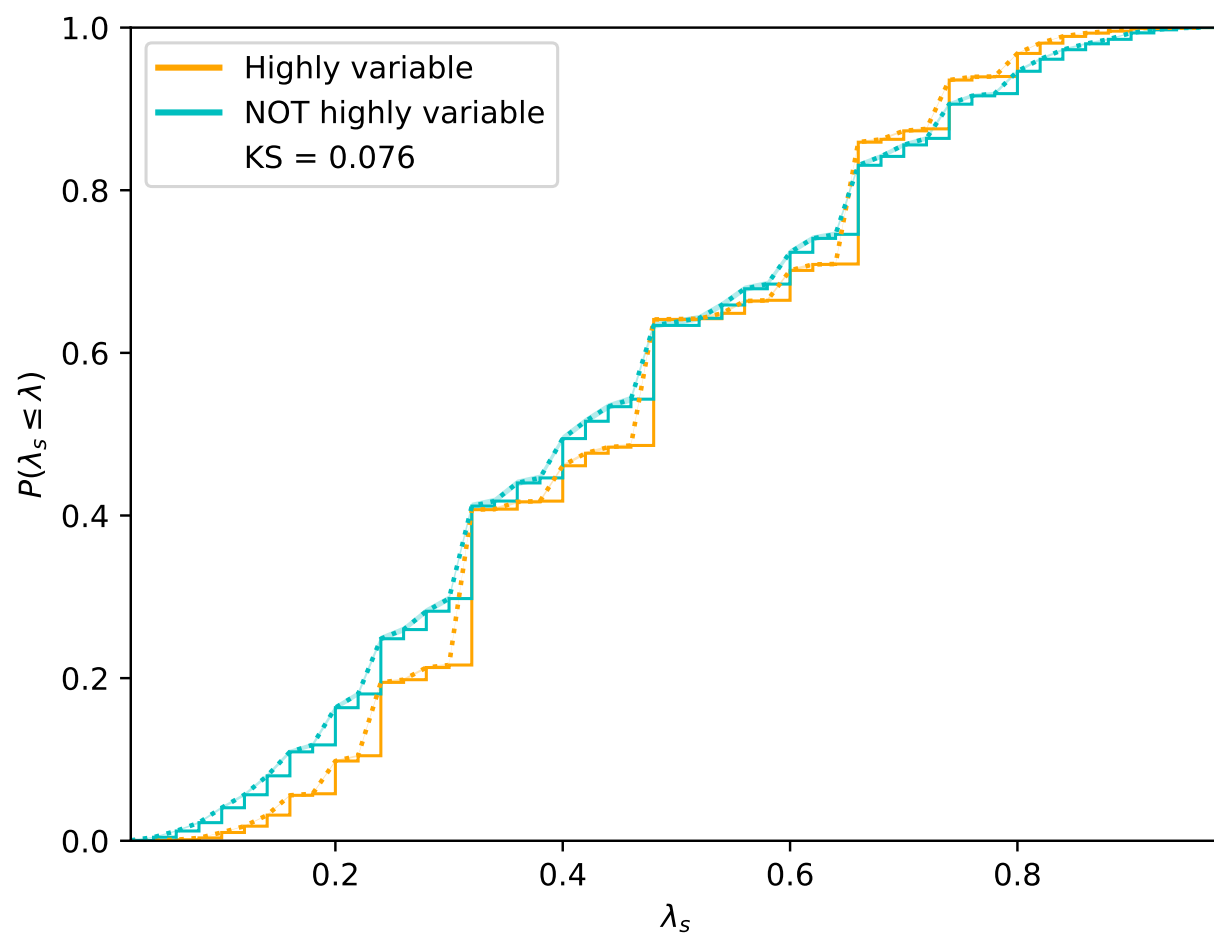


Figure 53: Sad emotional state.

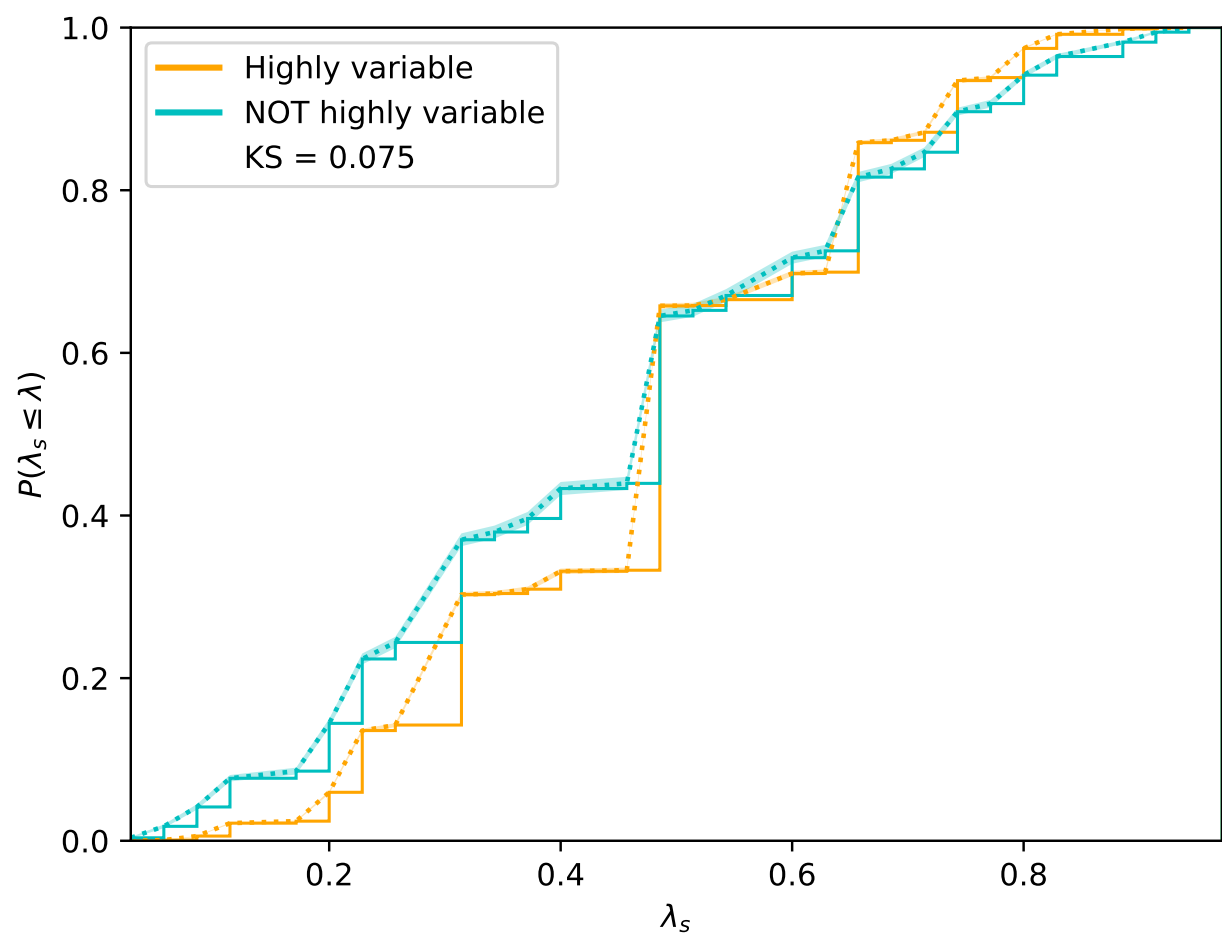


Figure 54: Supportive social behavior.

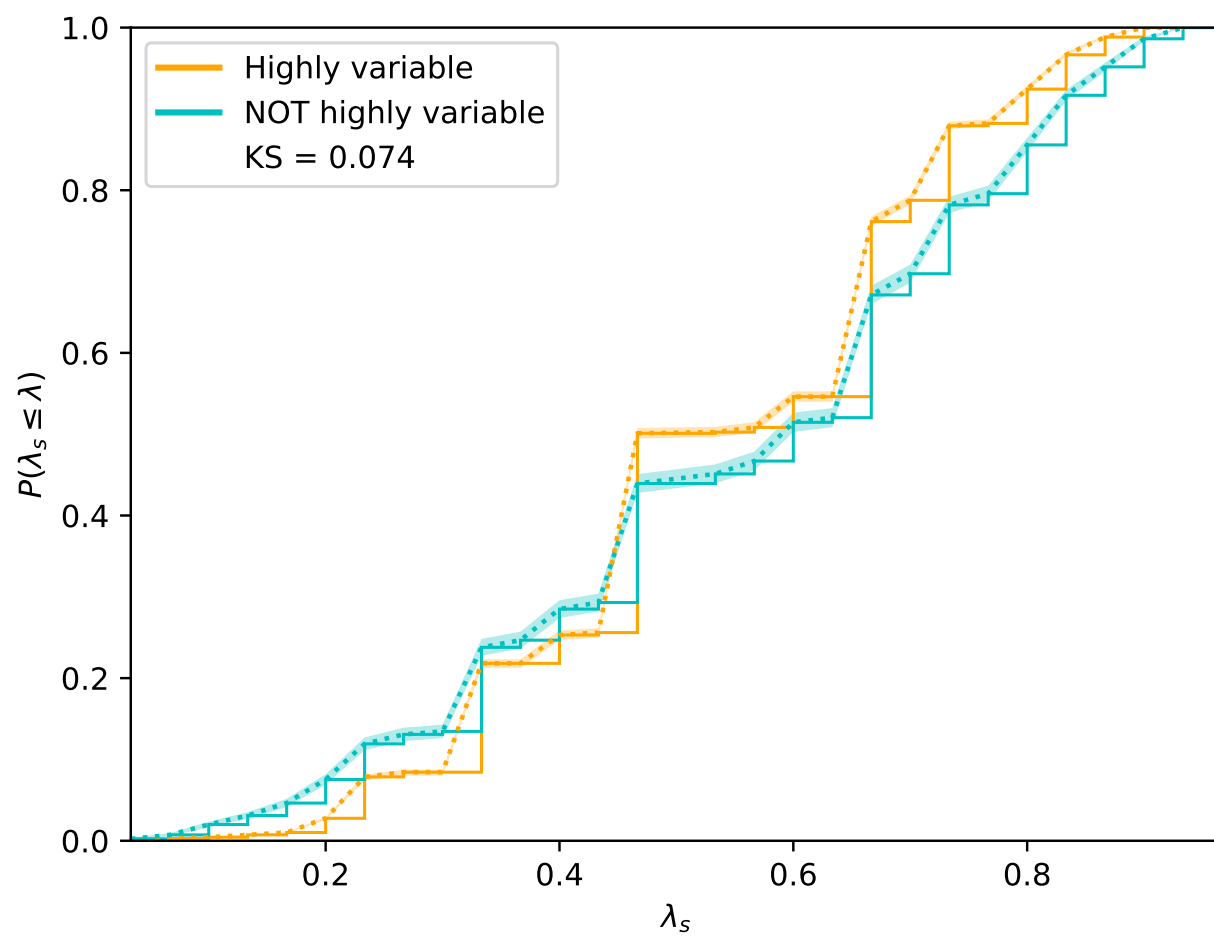


Figure 55: Physical exercise: running.

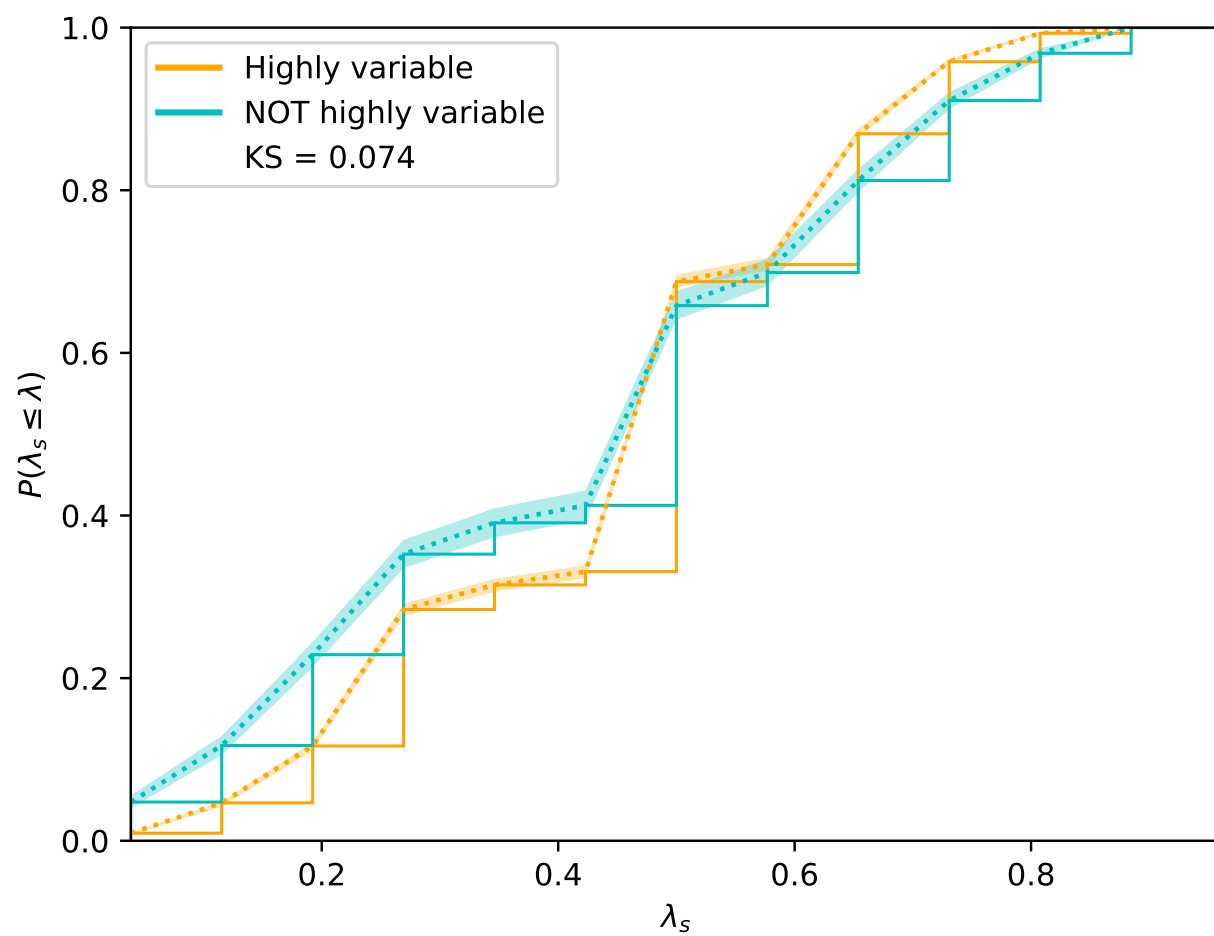


Figure 56: Party-related experience: cigarettes.

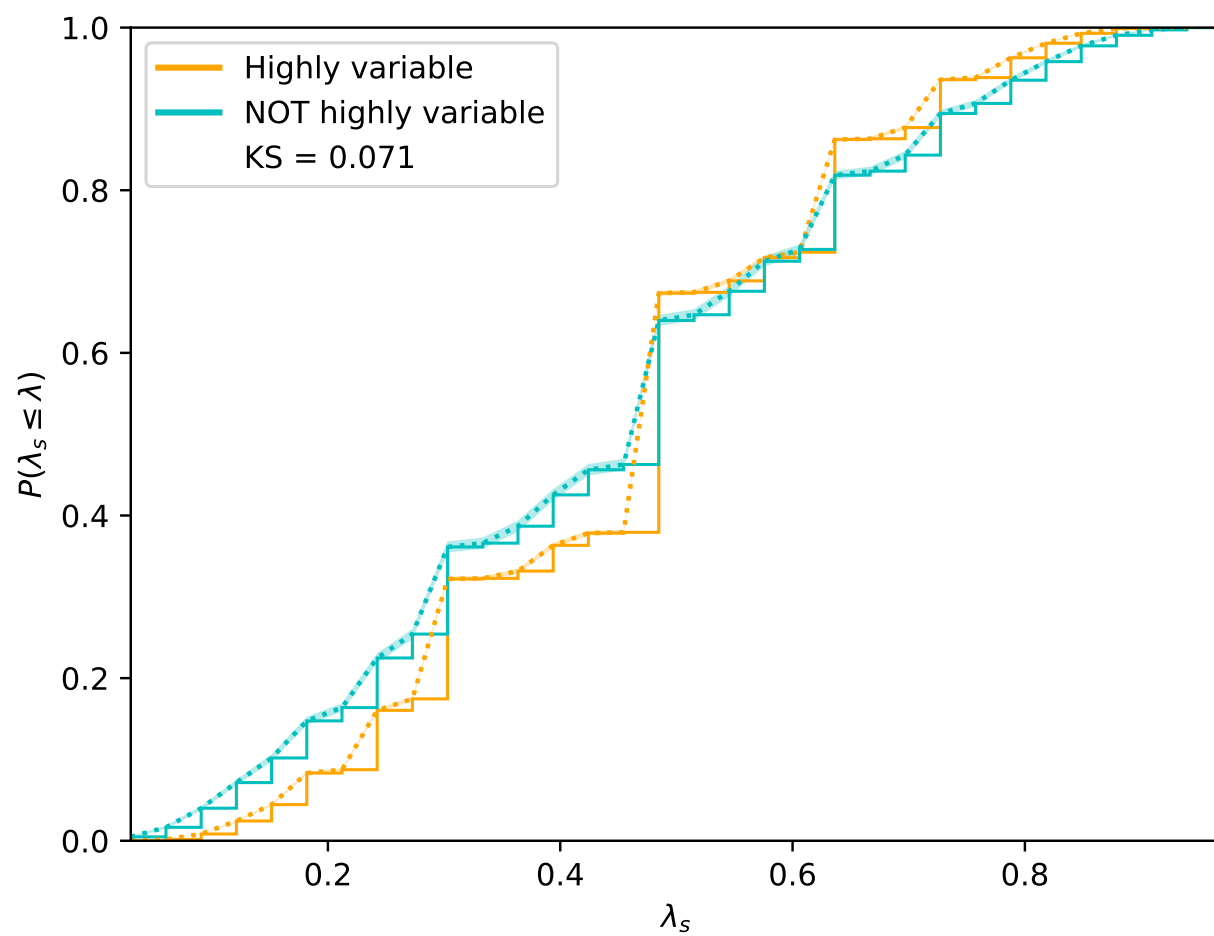


Figure 57: Diarrhea stool health.

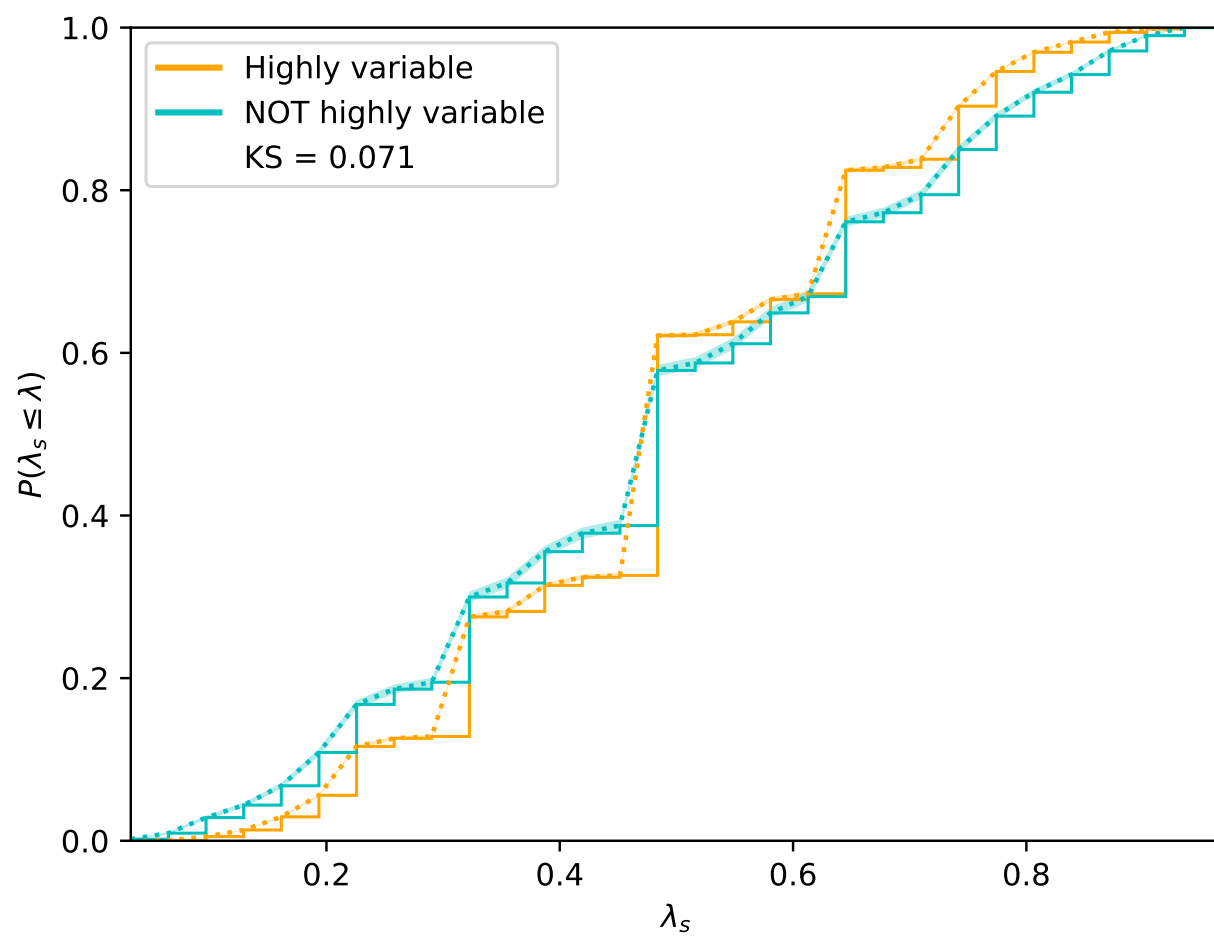


Figure 58: Productive motivation level.

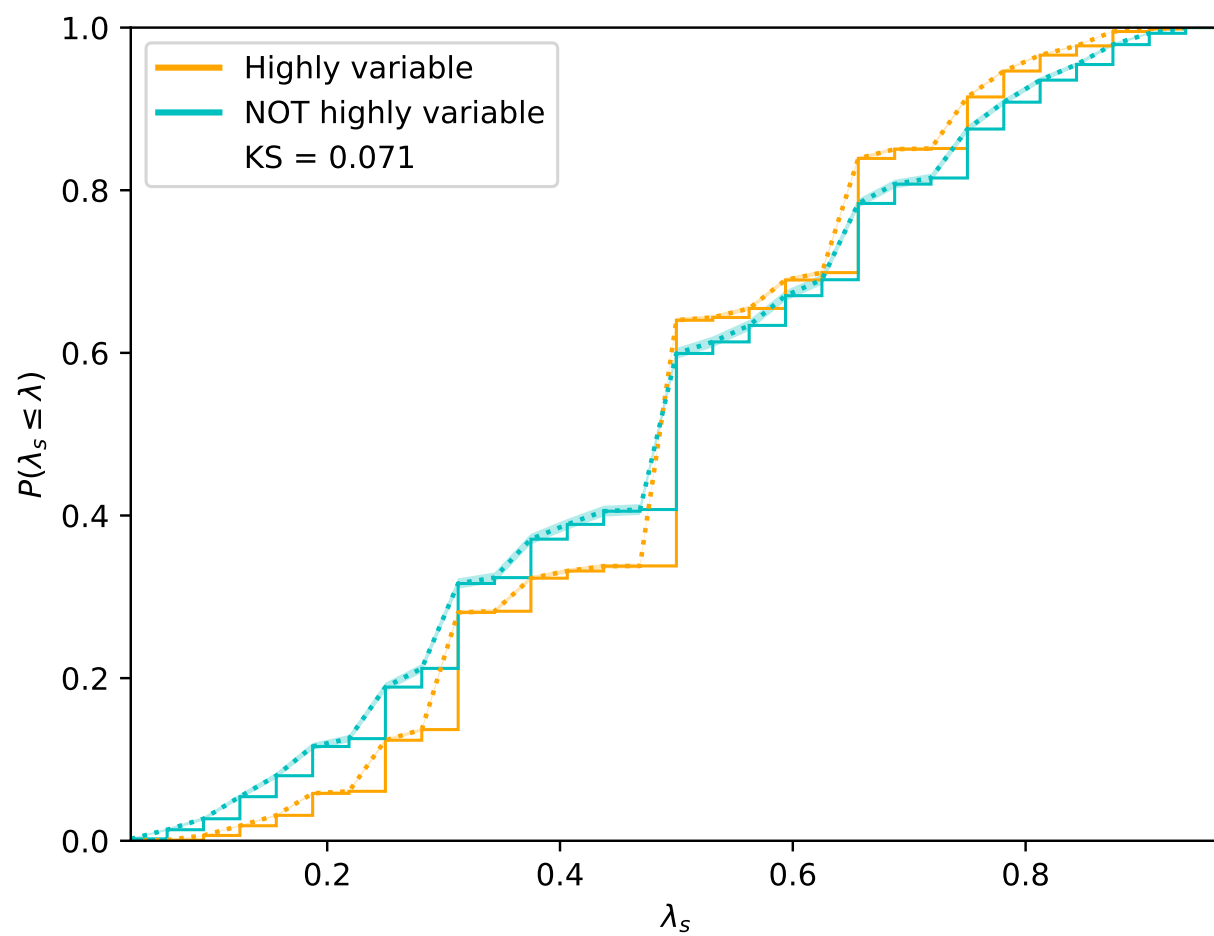


Figure 59: Chocolate food craving experienced.

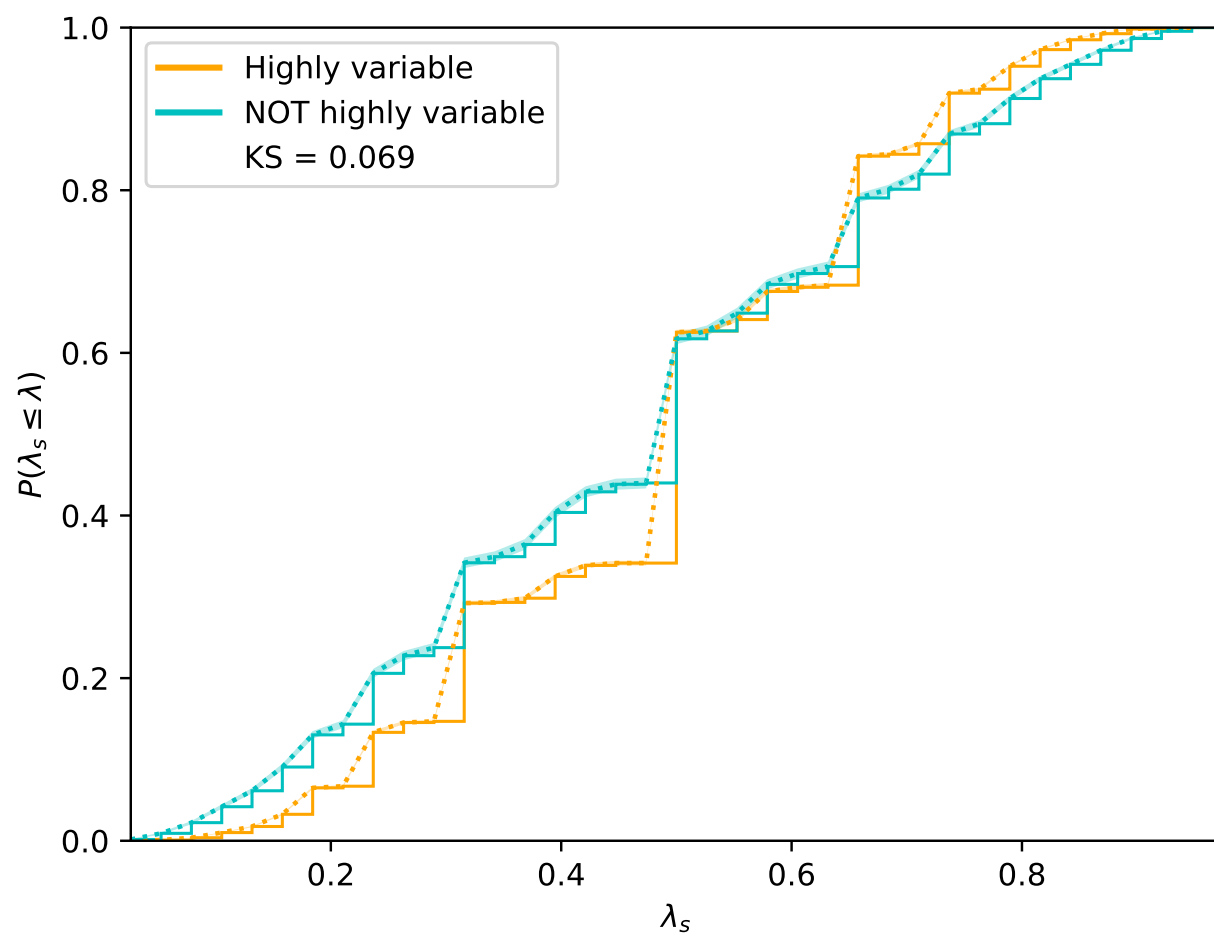


Figure 60: Focused mental state.

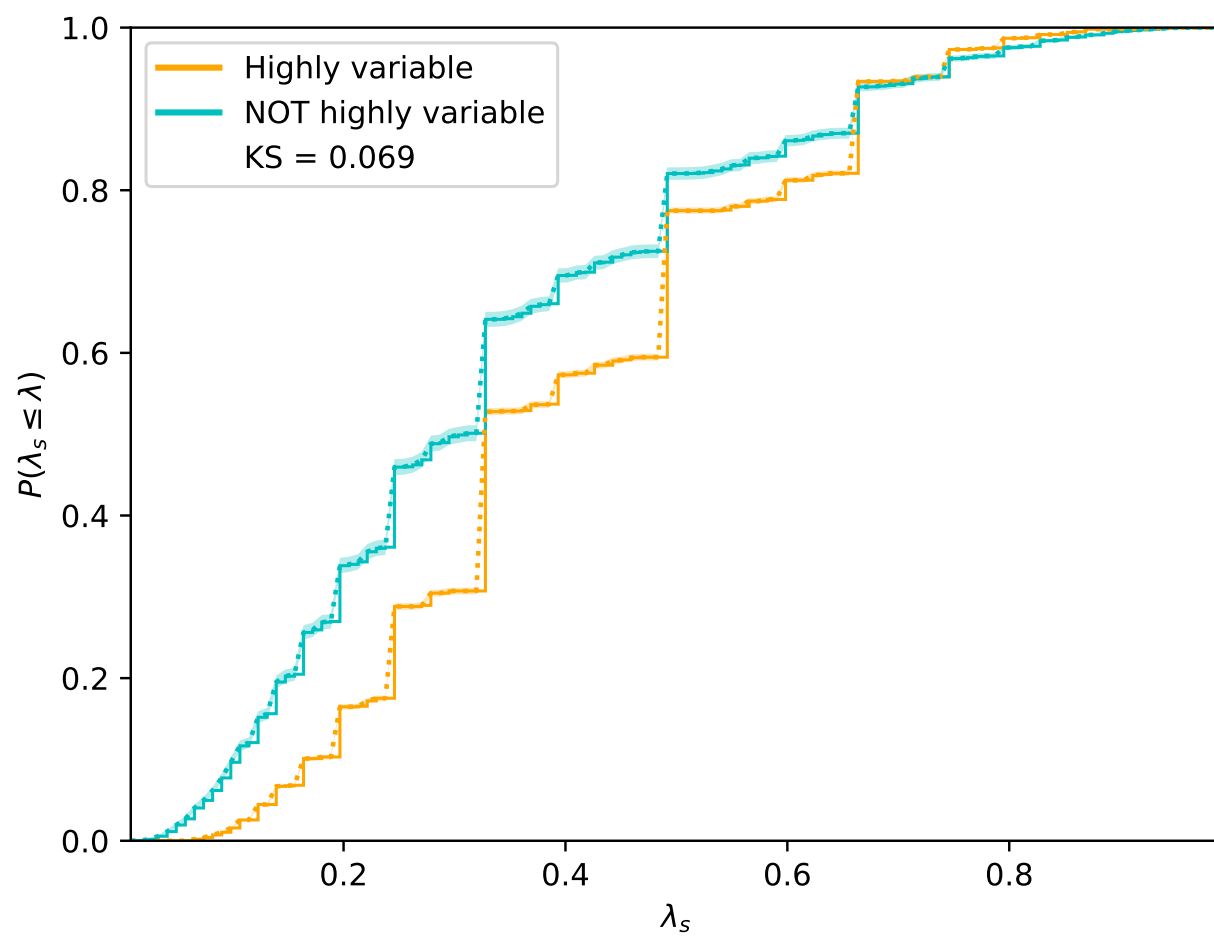


Figure 61: Atypical vaginal discharge type.

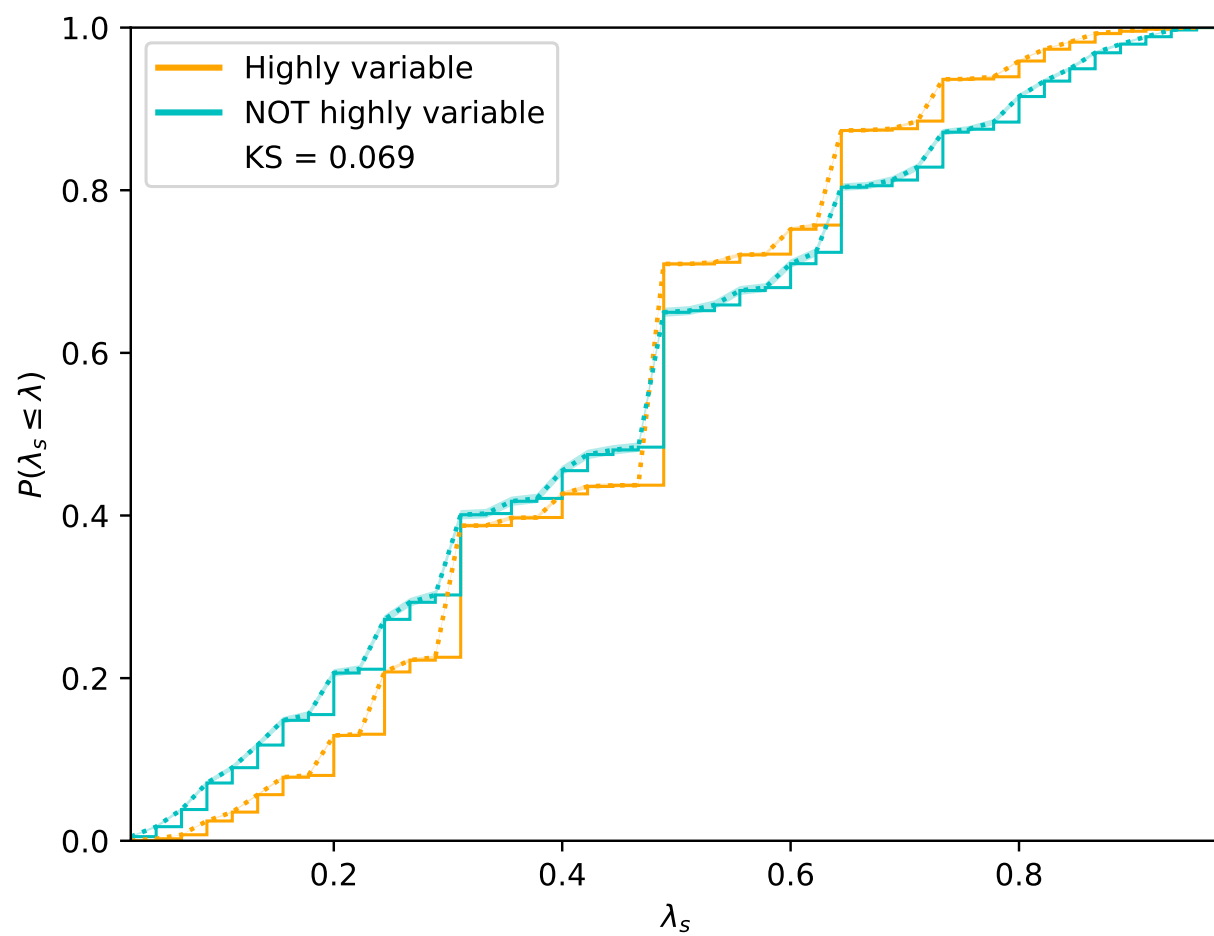


Figure 62: Protected sex reported.

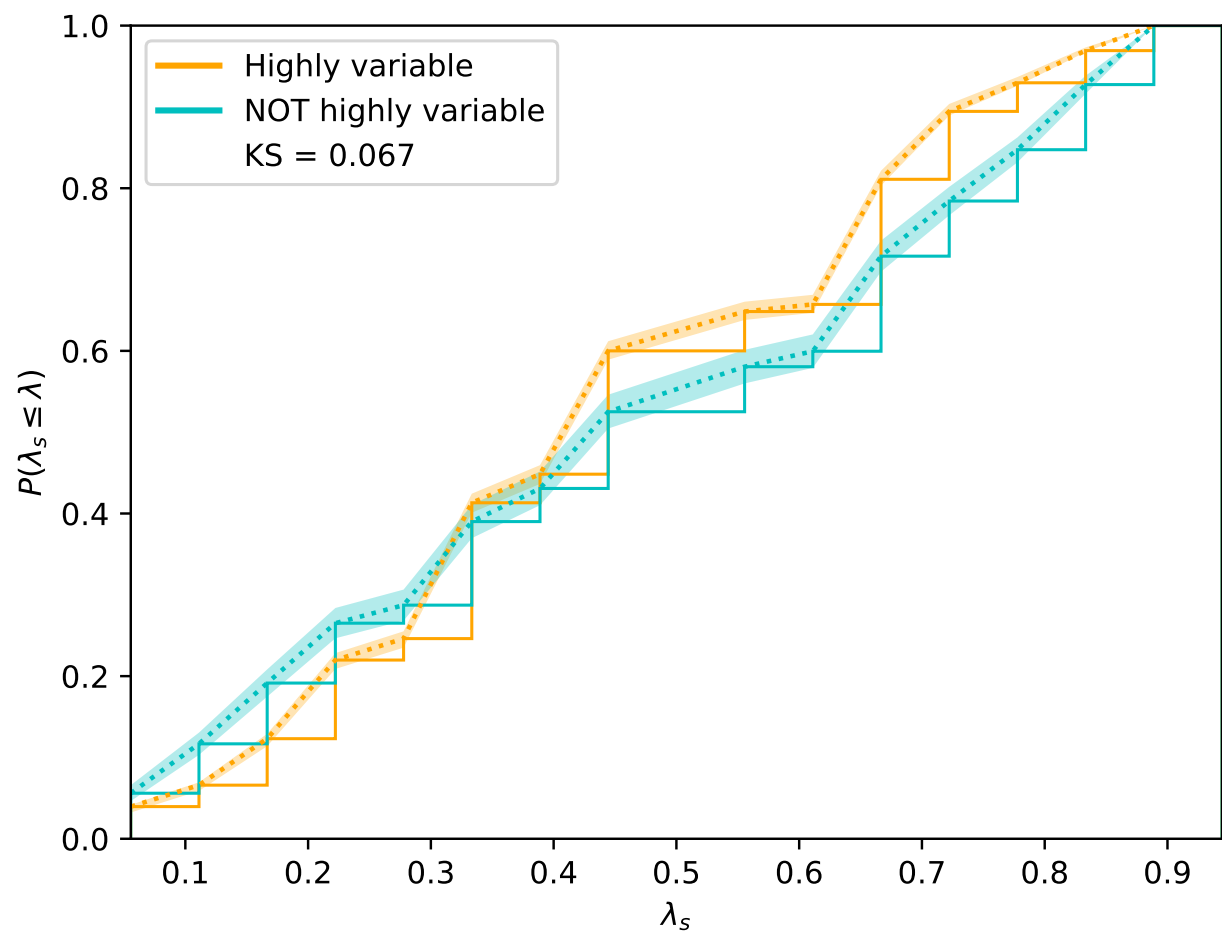


Figure 63: Menstrual cup method used for period collection.

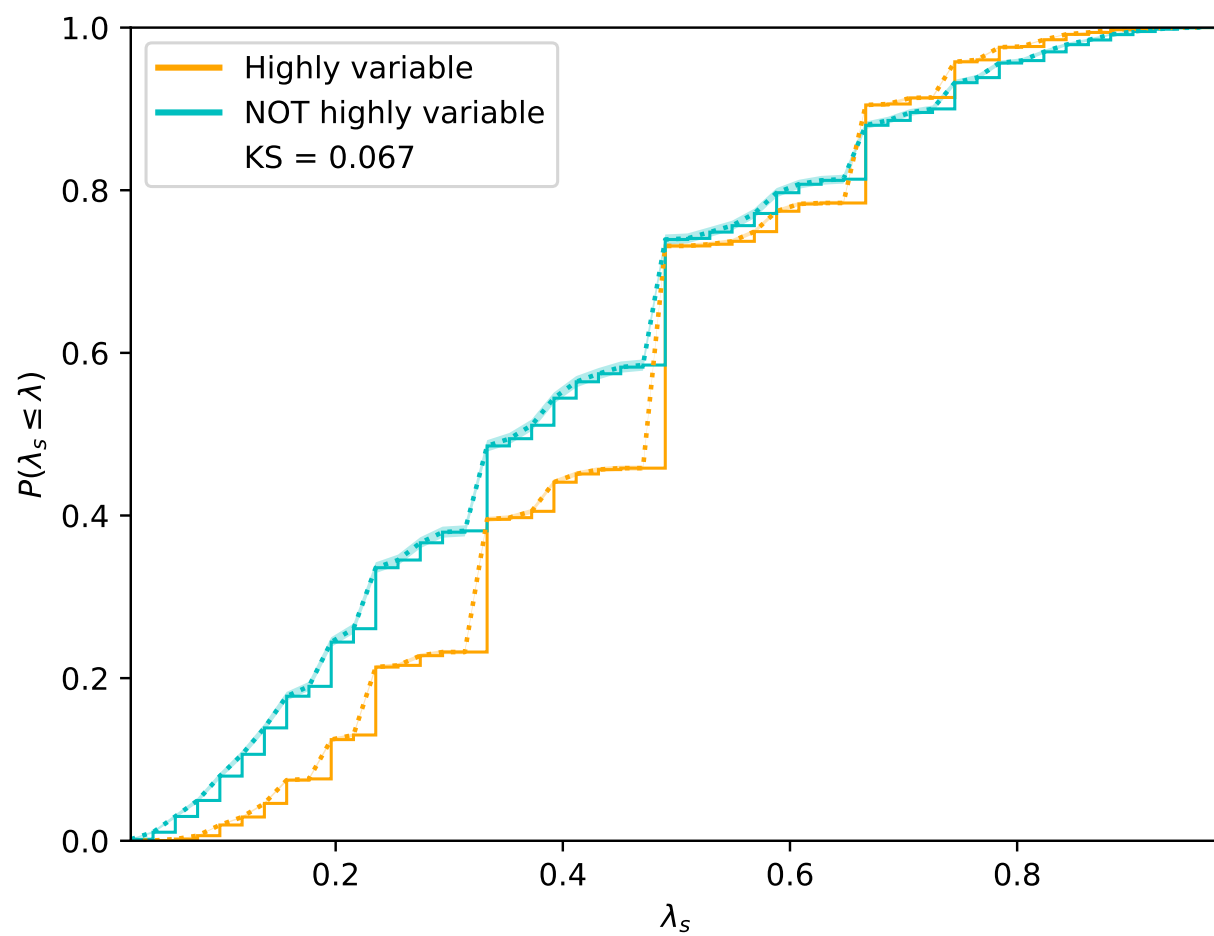


Figure 64: Dry skin health reported.

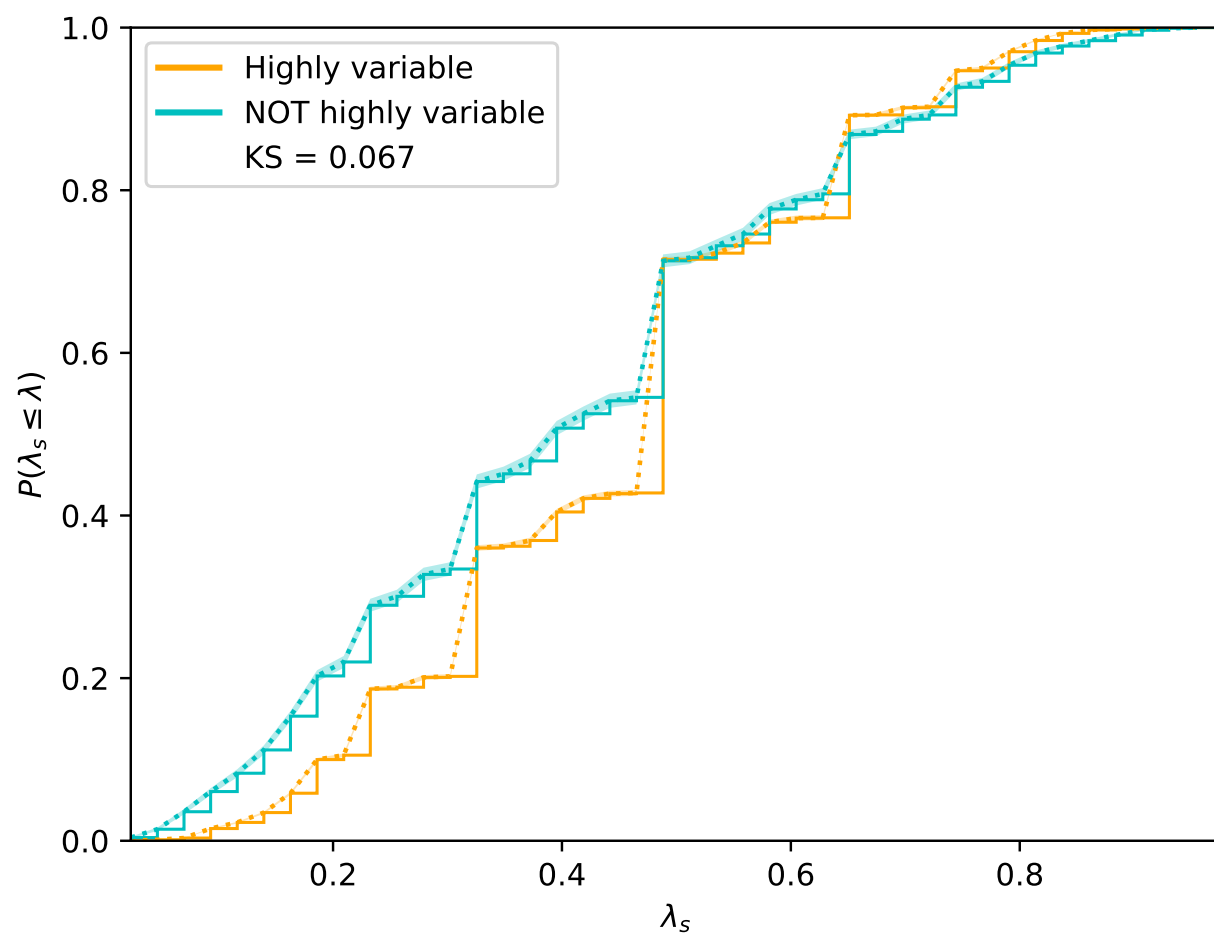


Figure 65: Dry hair reported.

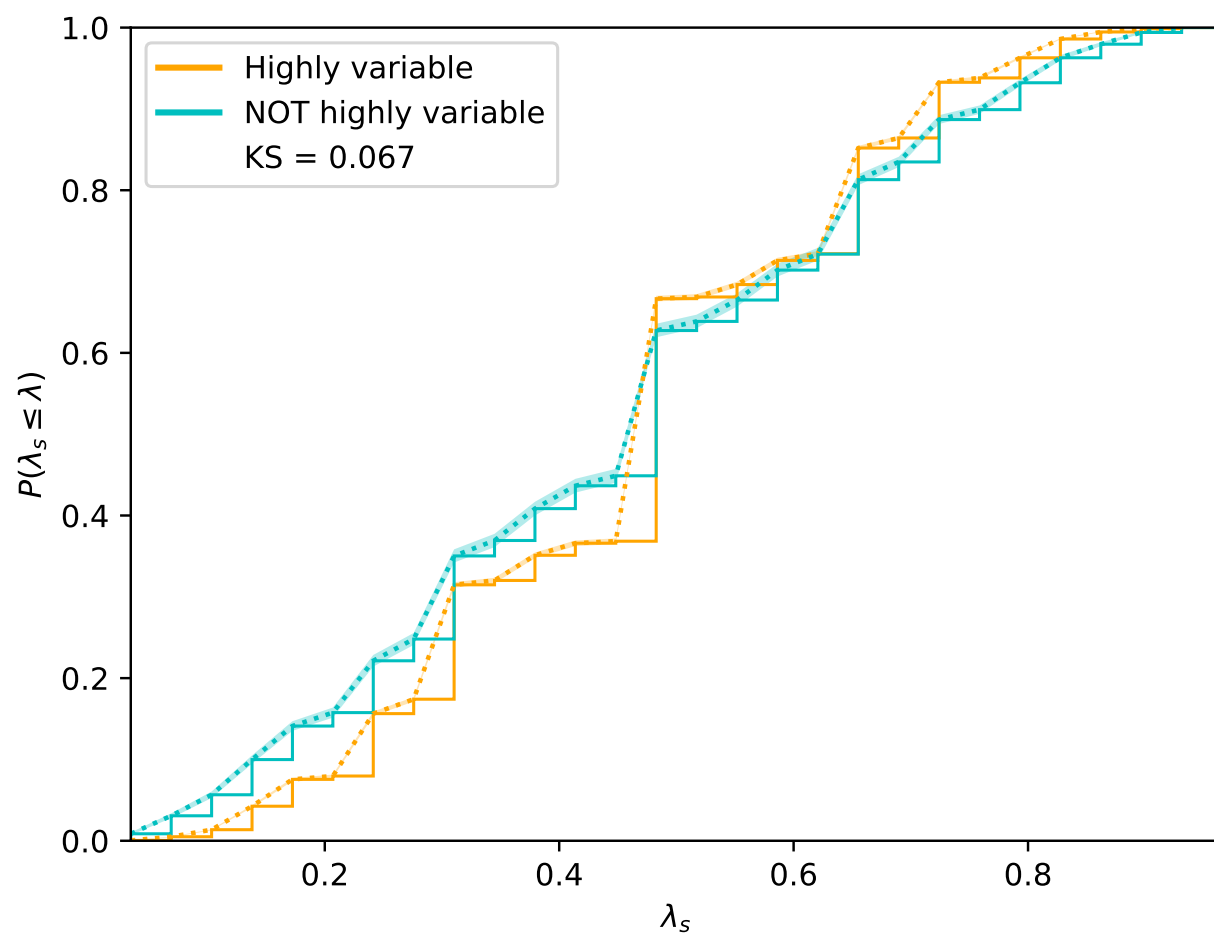


Figure 66: Oily hair reported.

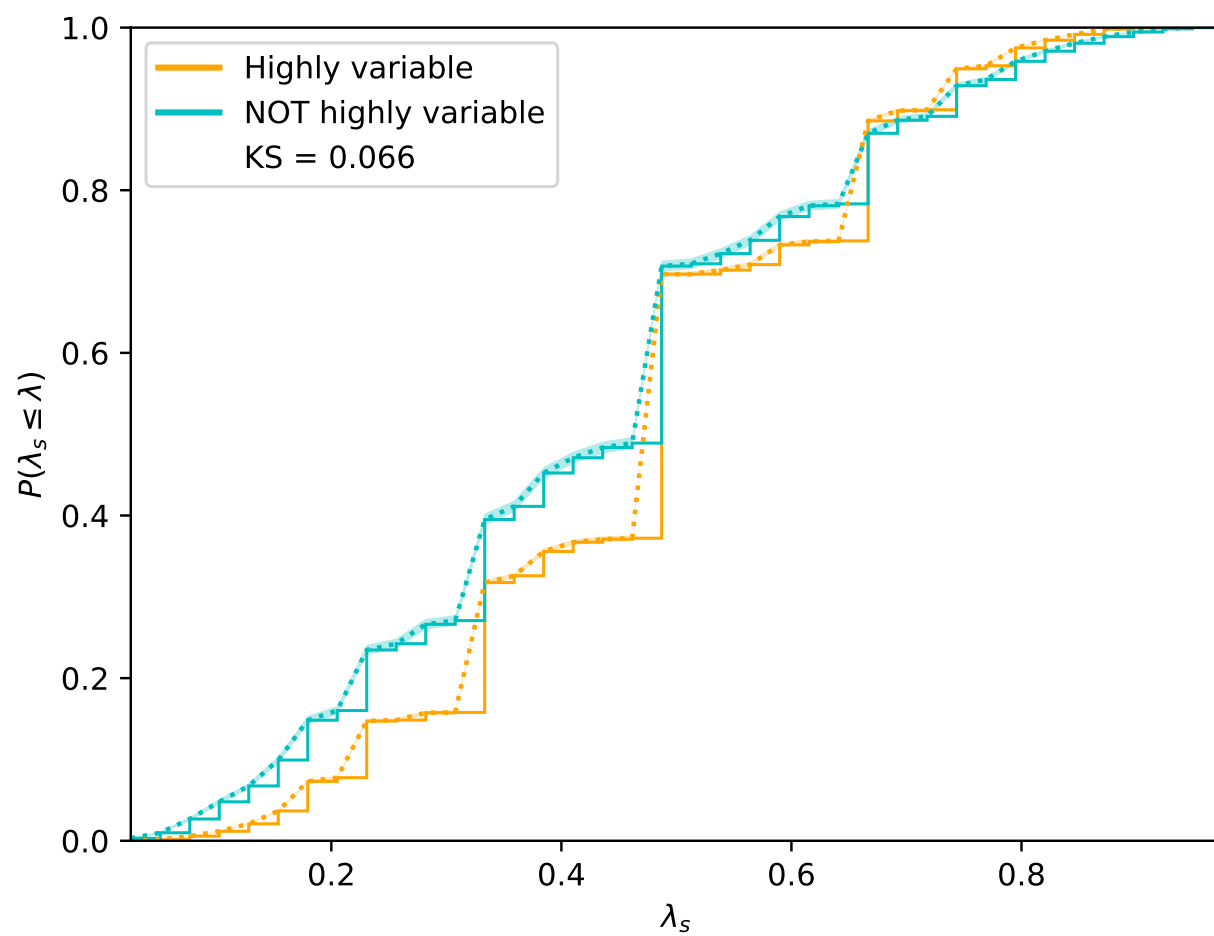


Figure 67: Sticky vaginal discharge type.

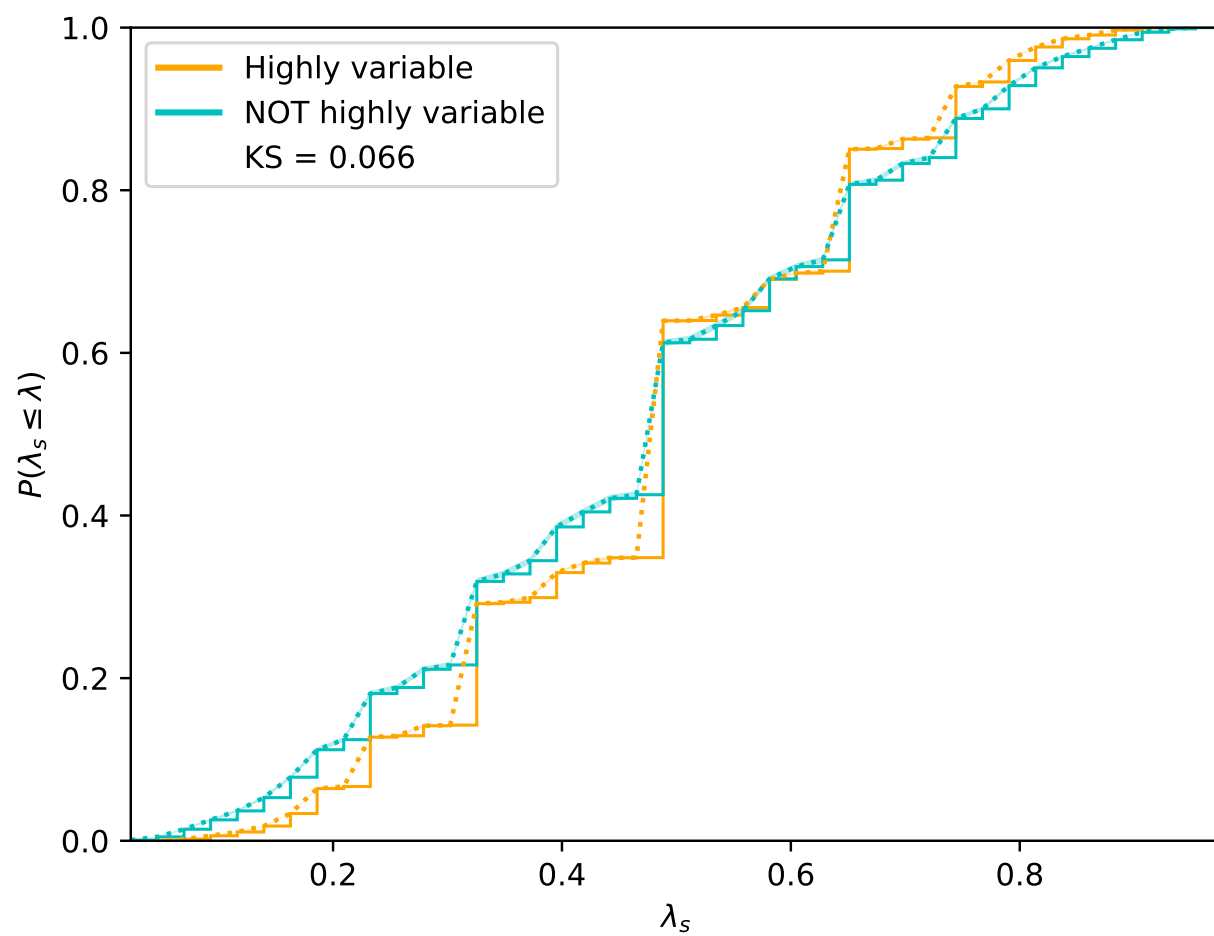


Figure 68: Exhausted energy level.

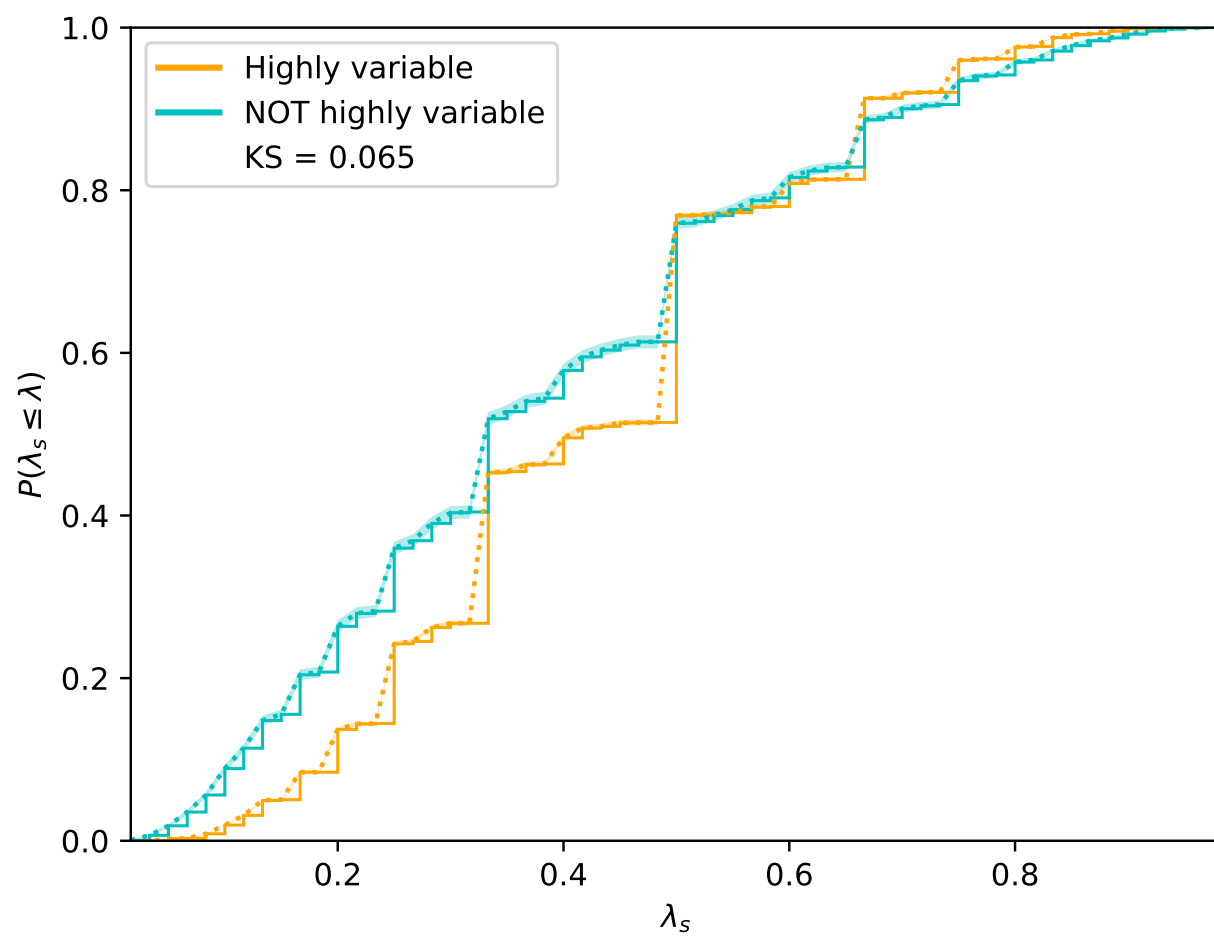


Figure 69: Great stool health.

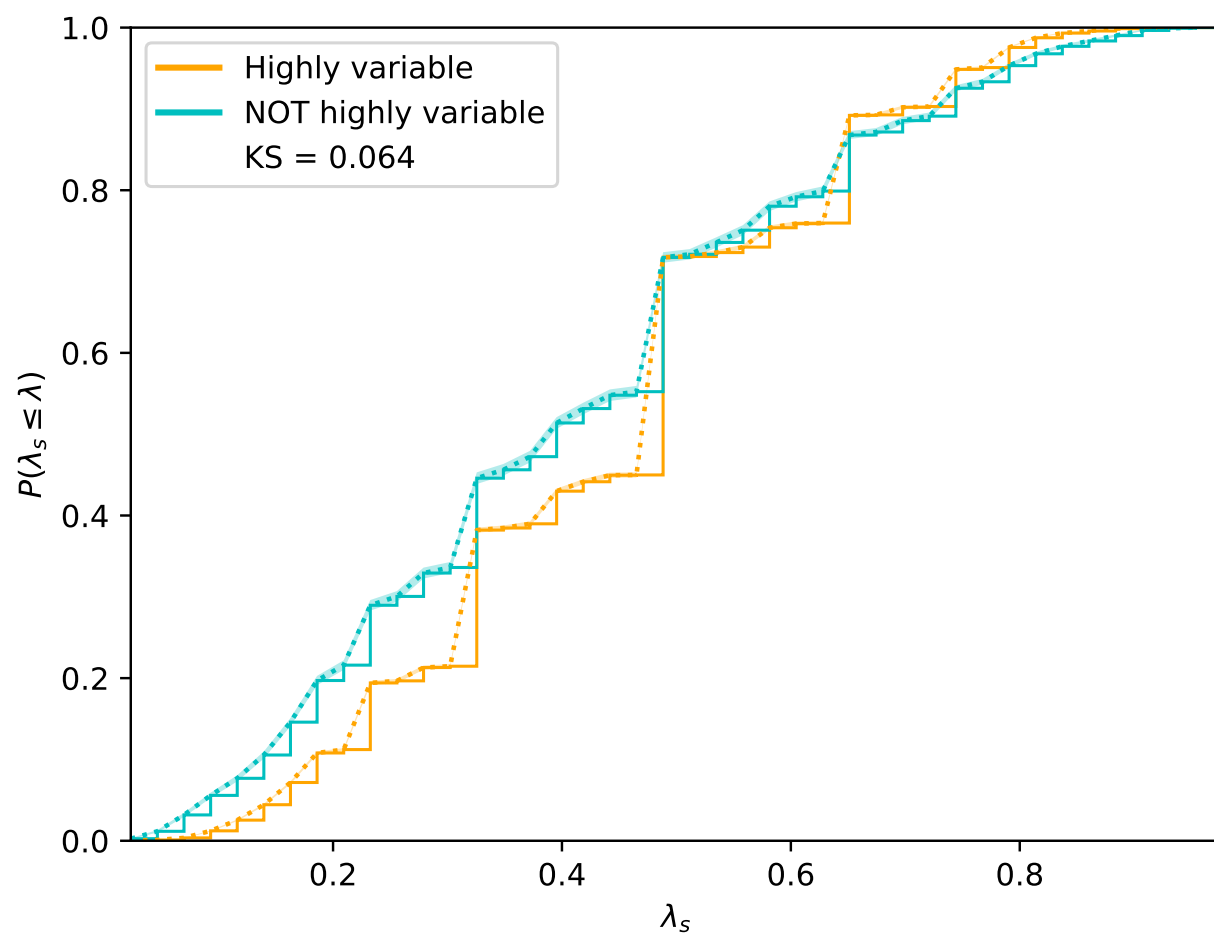


Figure 70: Nauseated digestive health.

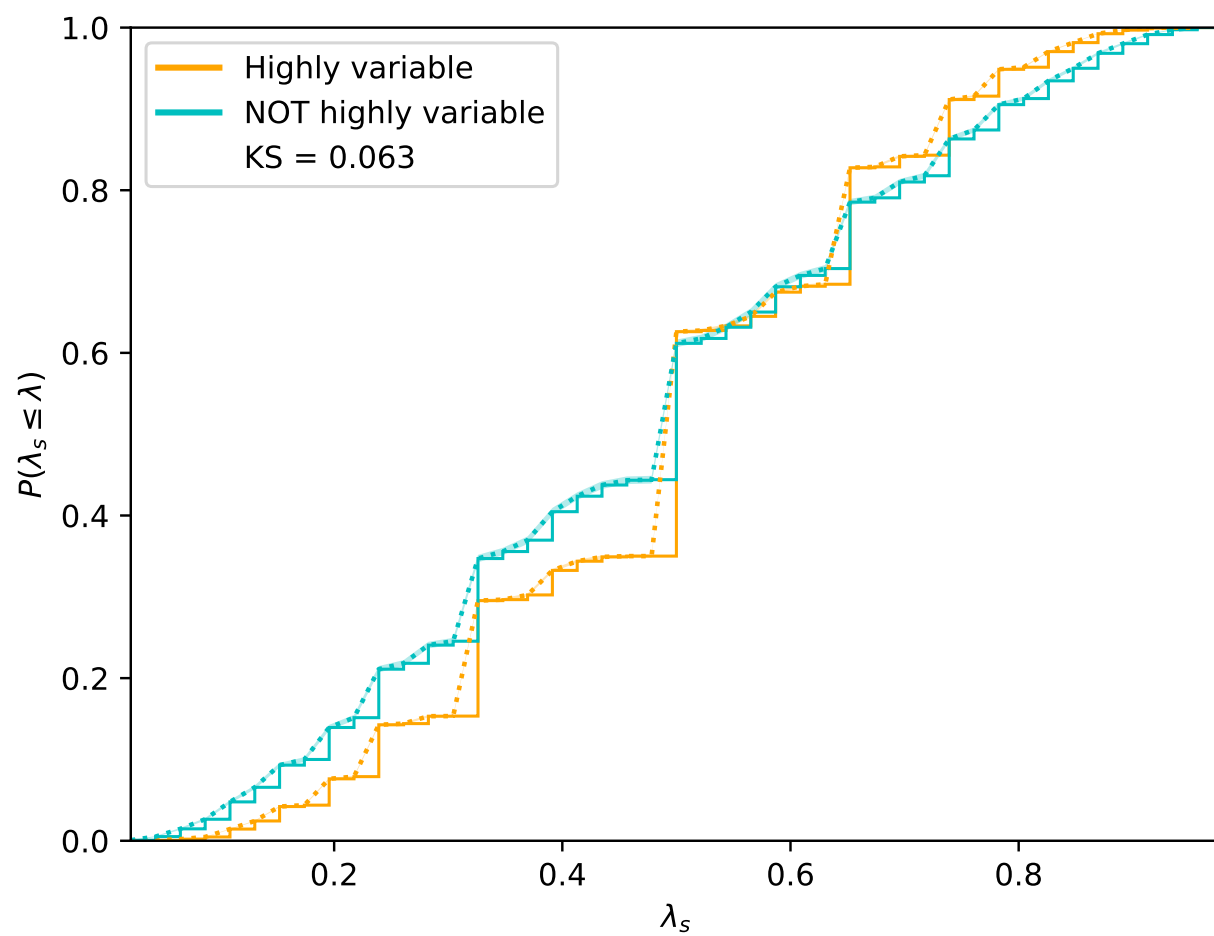


Figure 71: High energy level.

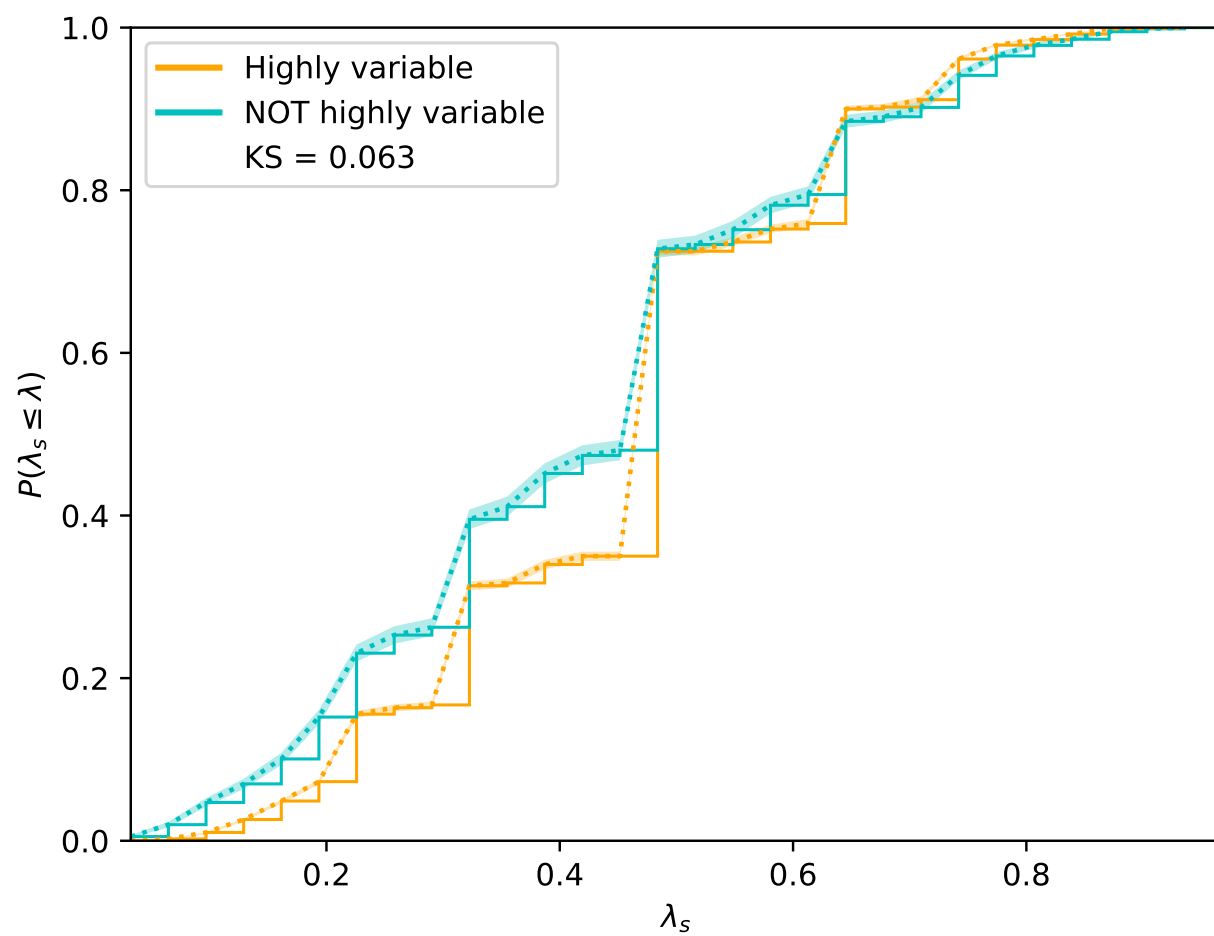


Figure 72: Party-related experience: big night party.

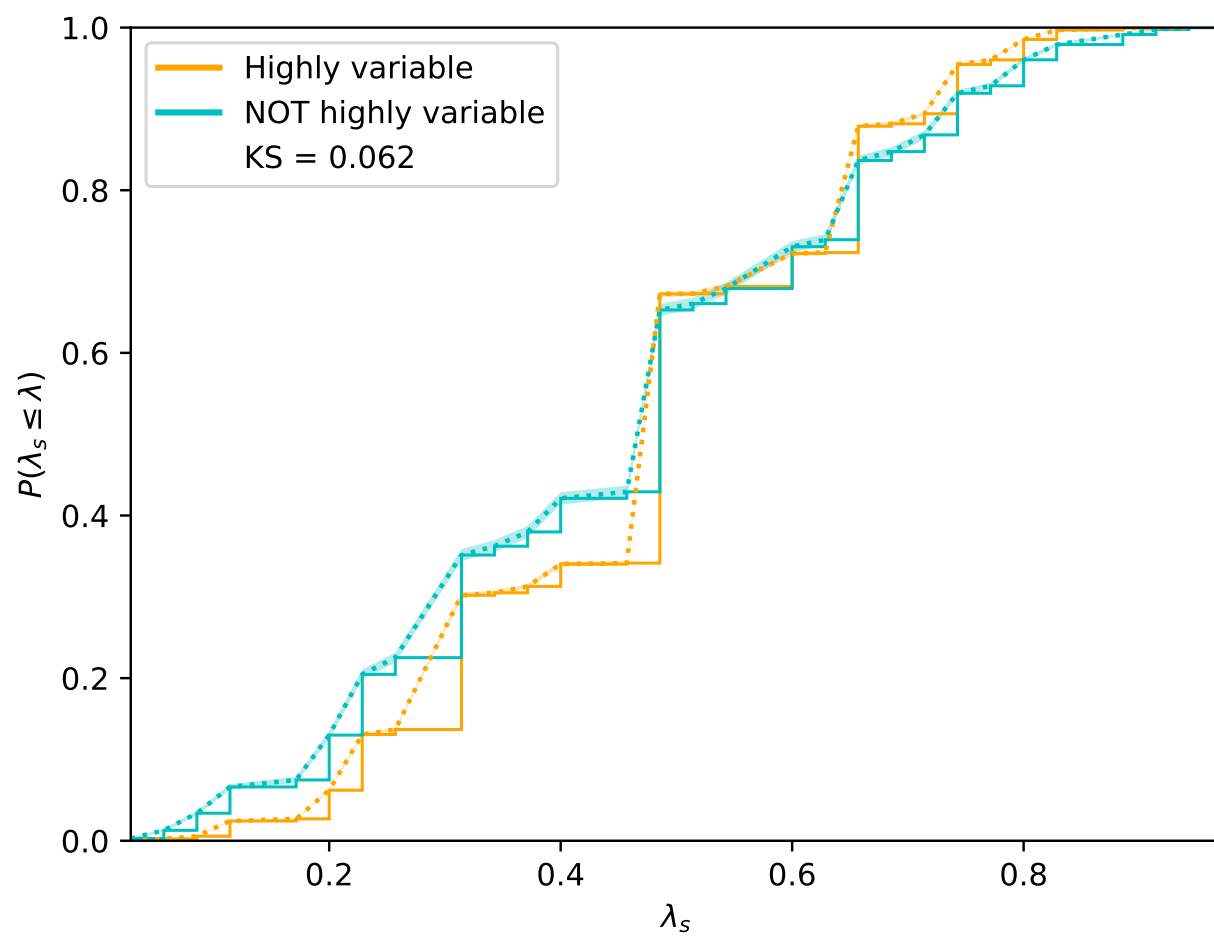


Figure 73: Conflict social behavior.

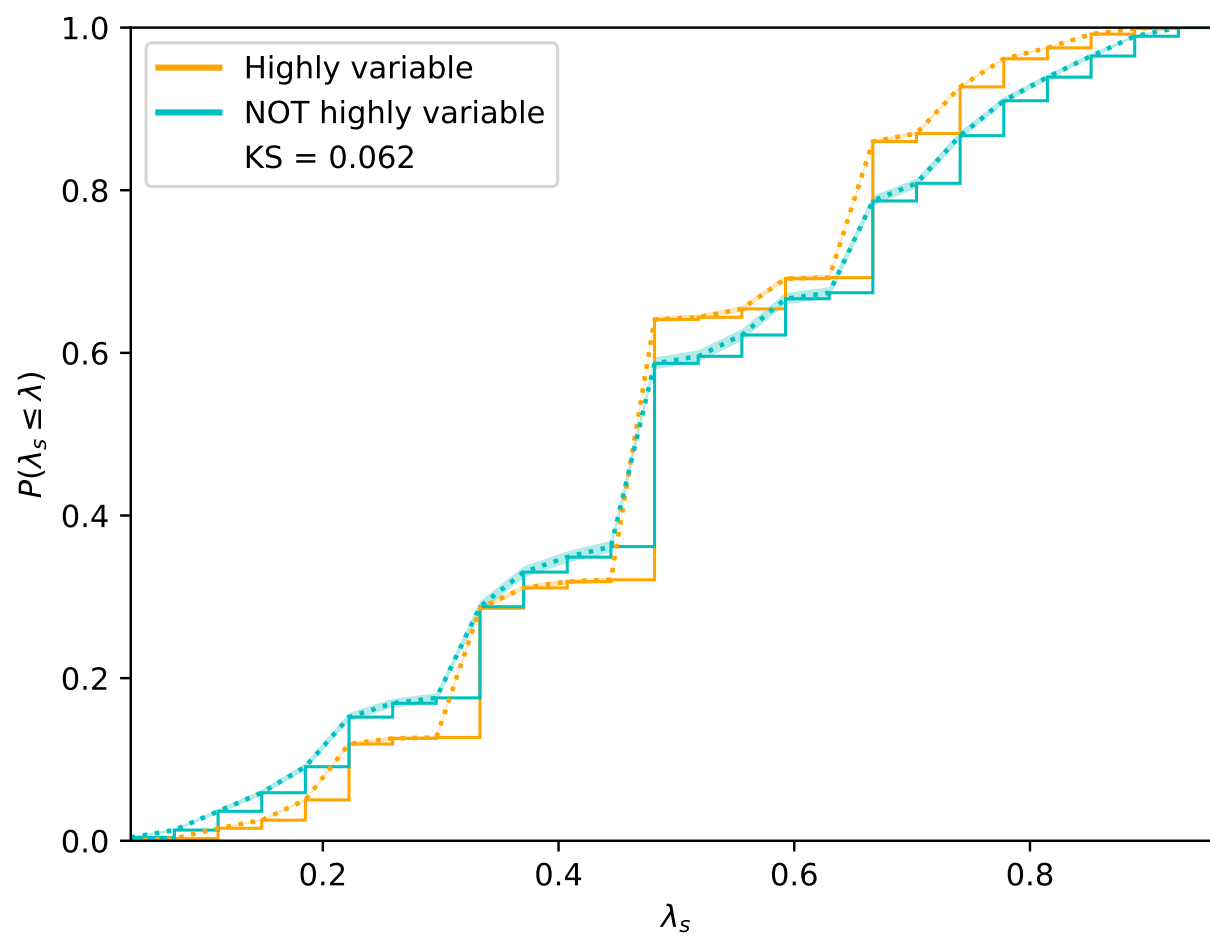


Figure 74: Egg white vaginal discharge type.

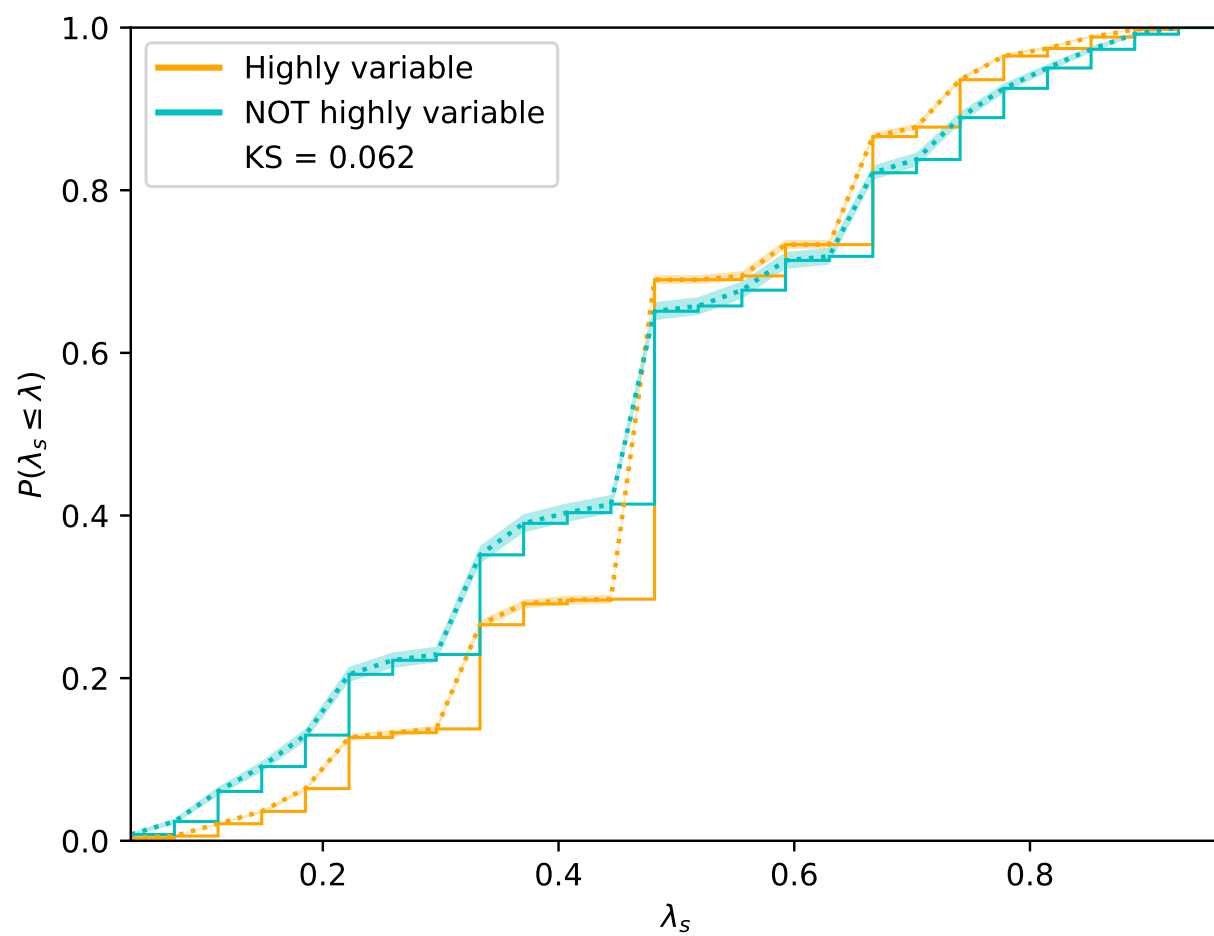


Figure 75: Physical exercise: yoga.

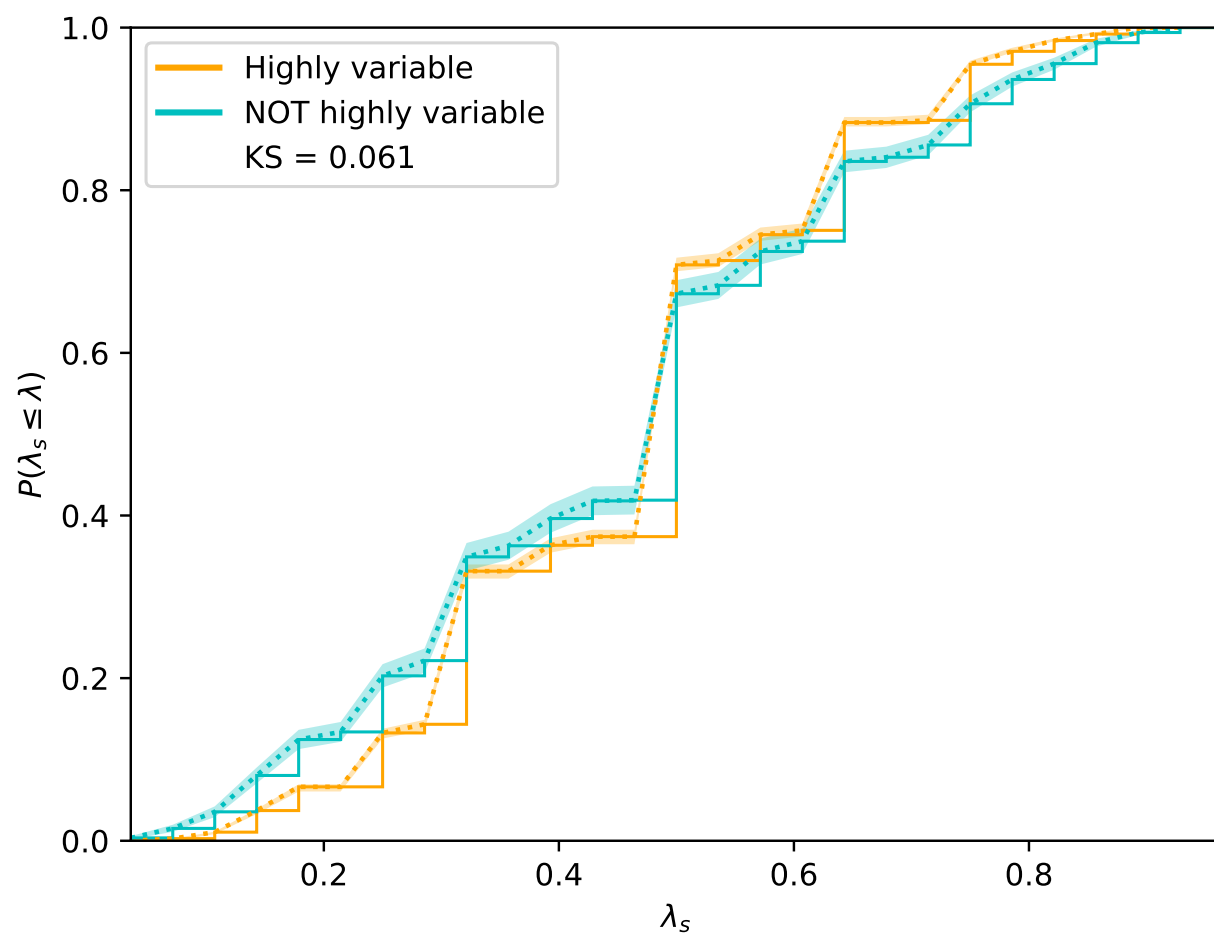


Figure 76: Physical maladies: allergy.

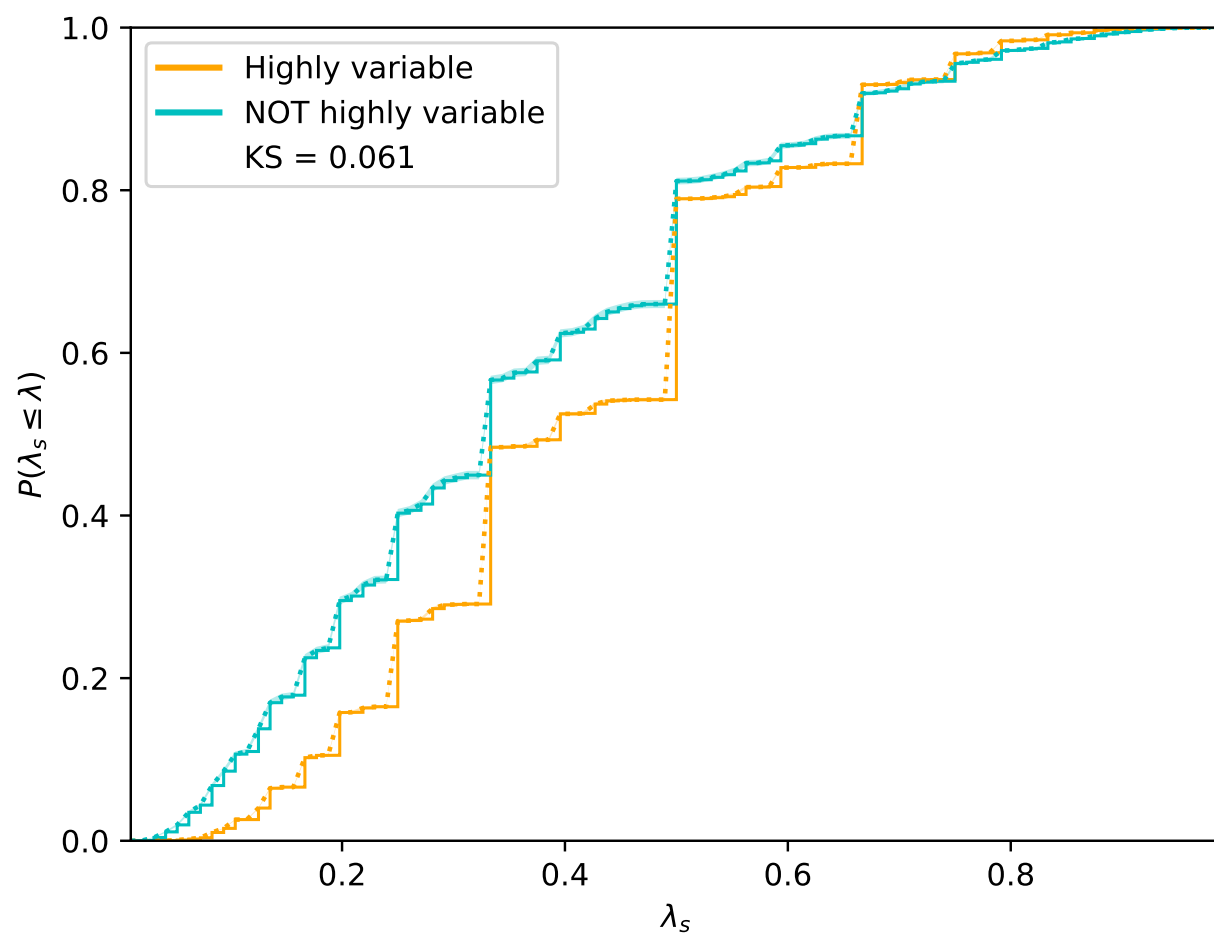


Figure 77: >9 hours of sleep.

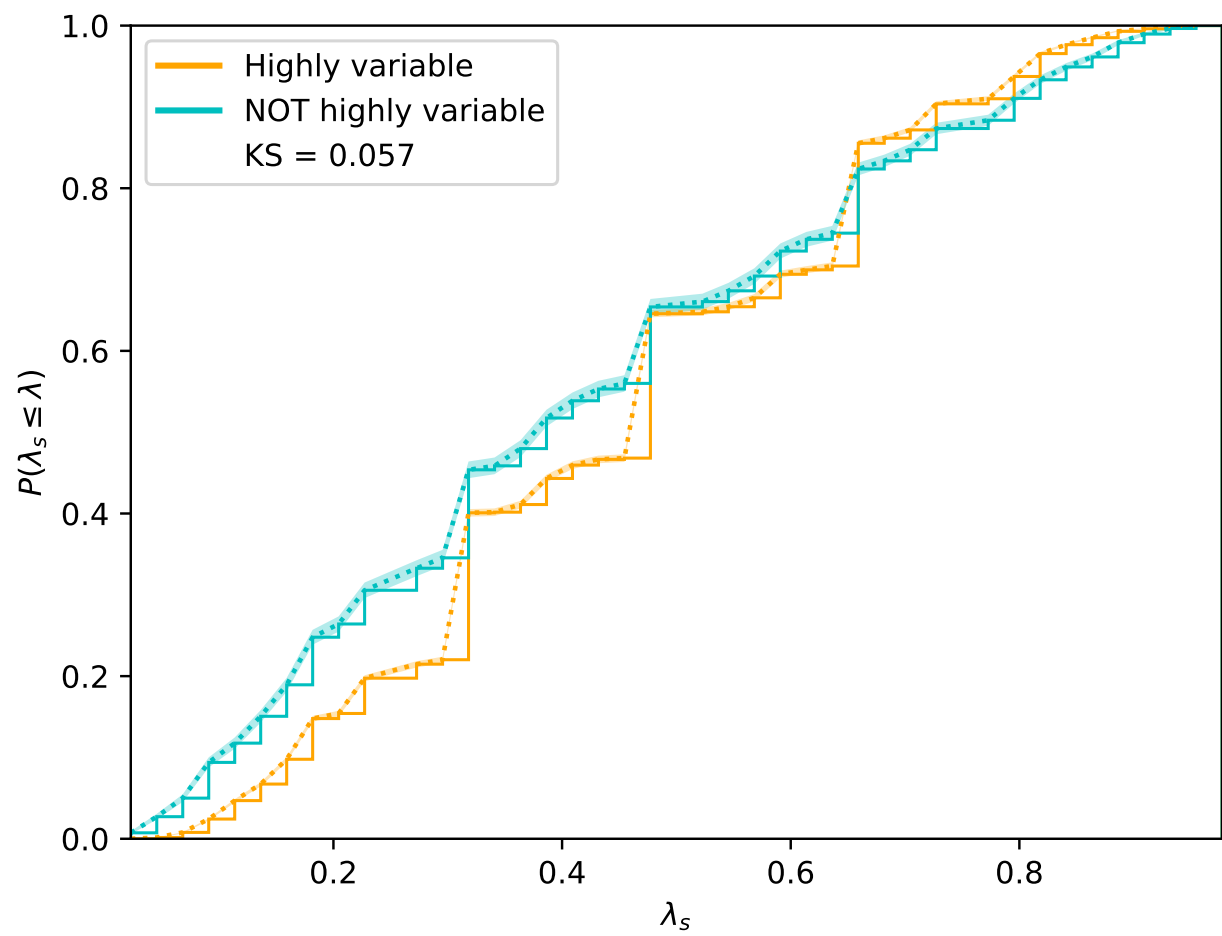


Figure 78: Panty liner method used for period collection.

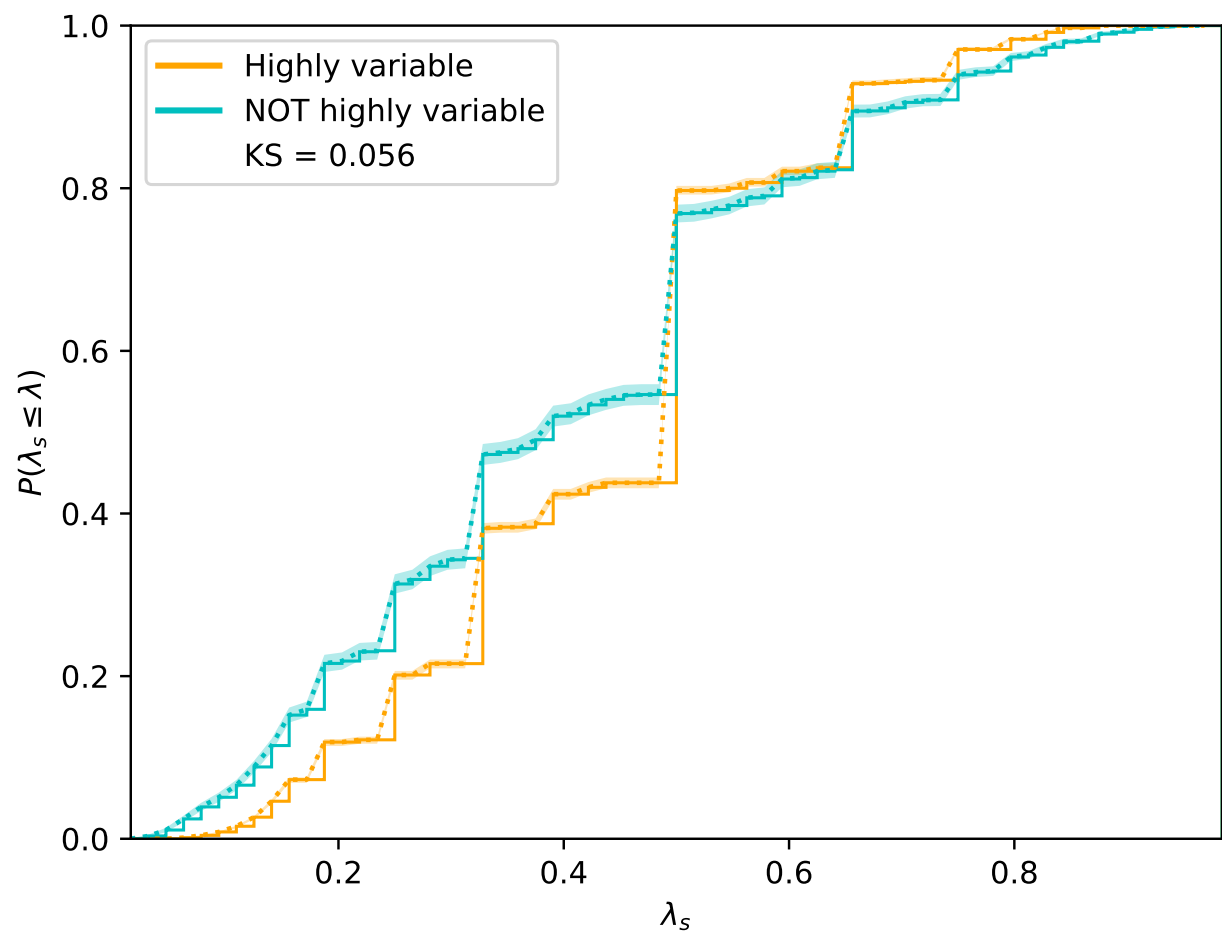


Figure 79: Physical exercise: biking.

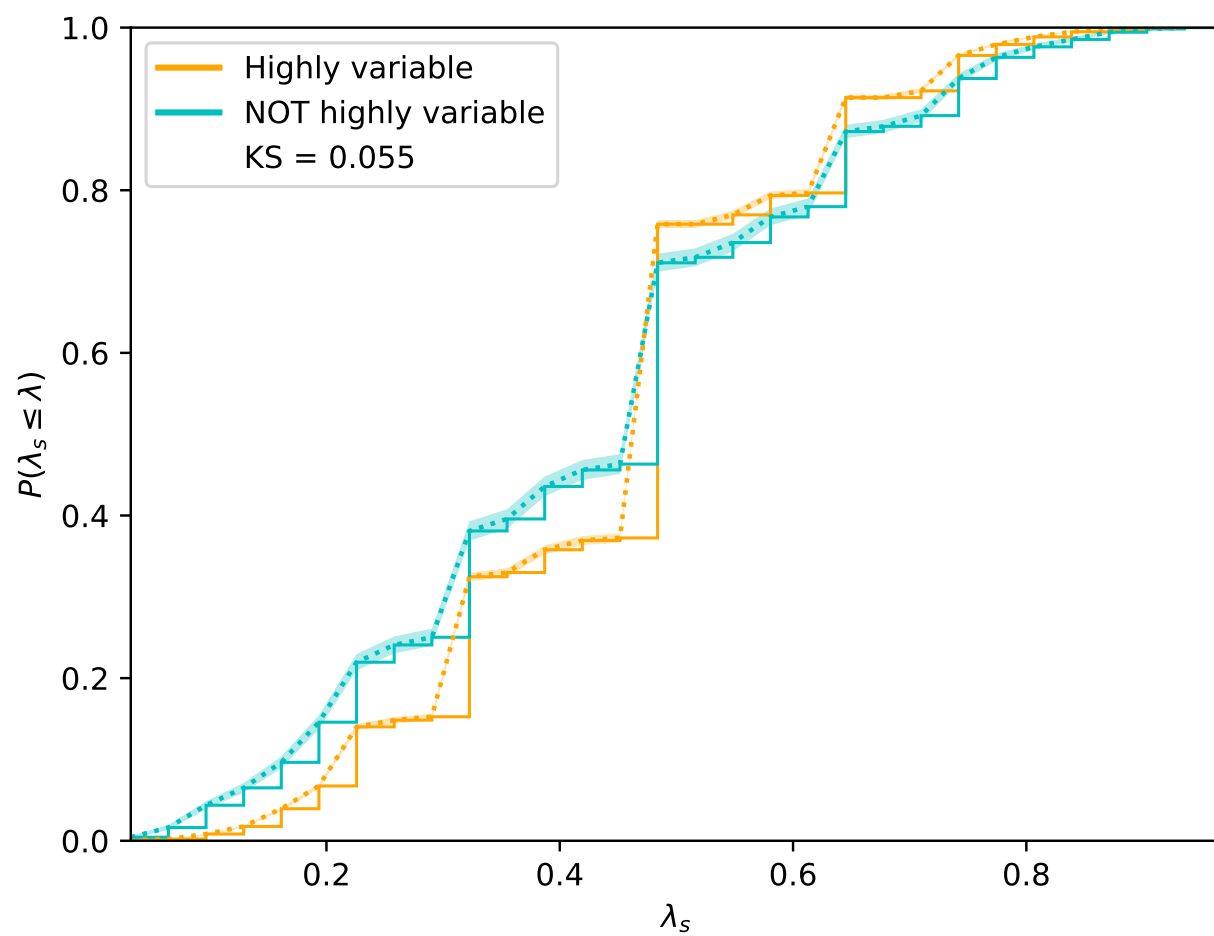


Figure 80: Party-related experience: hangover.

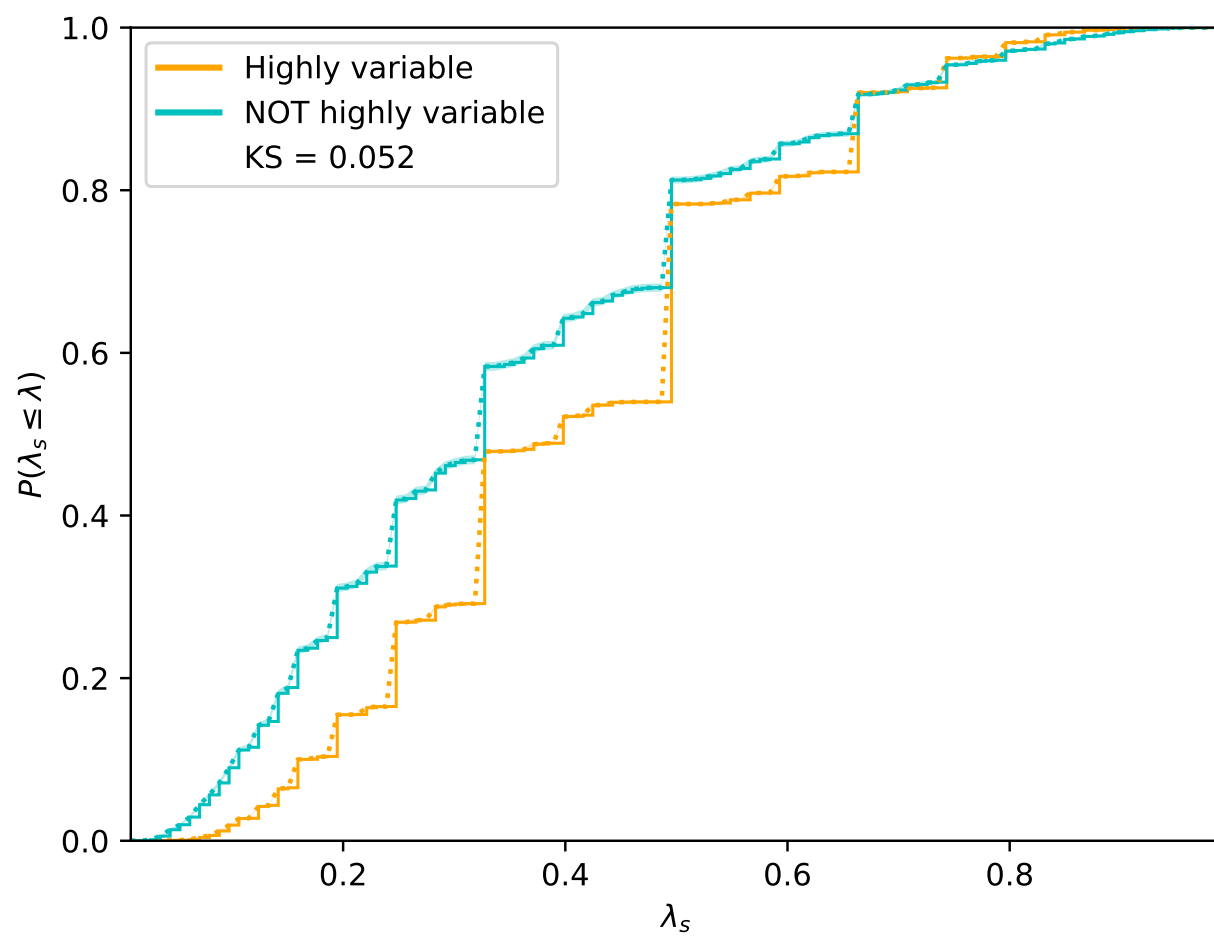


Figure 81: Energized energy level.

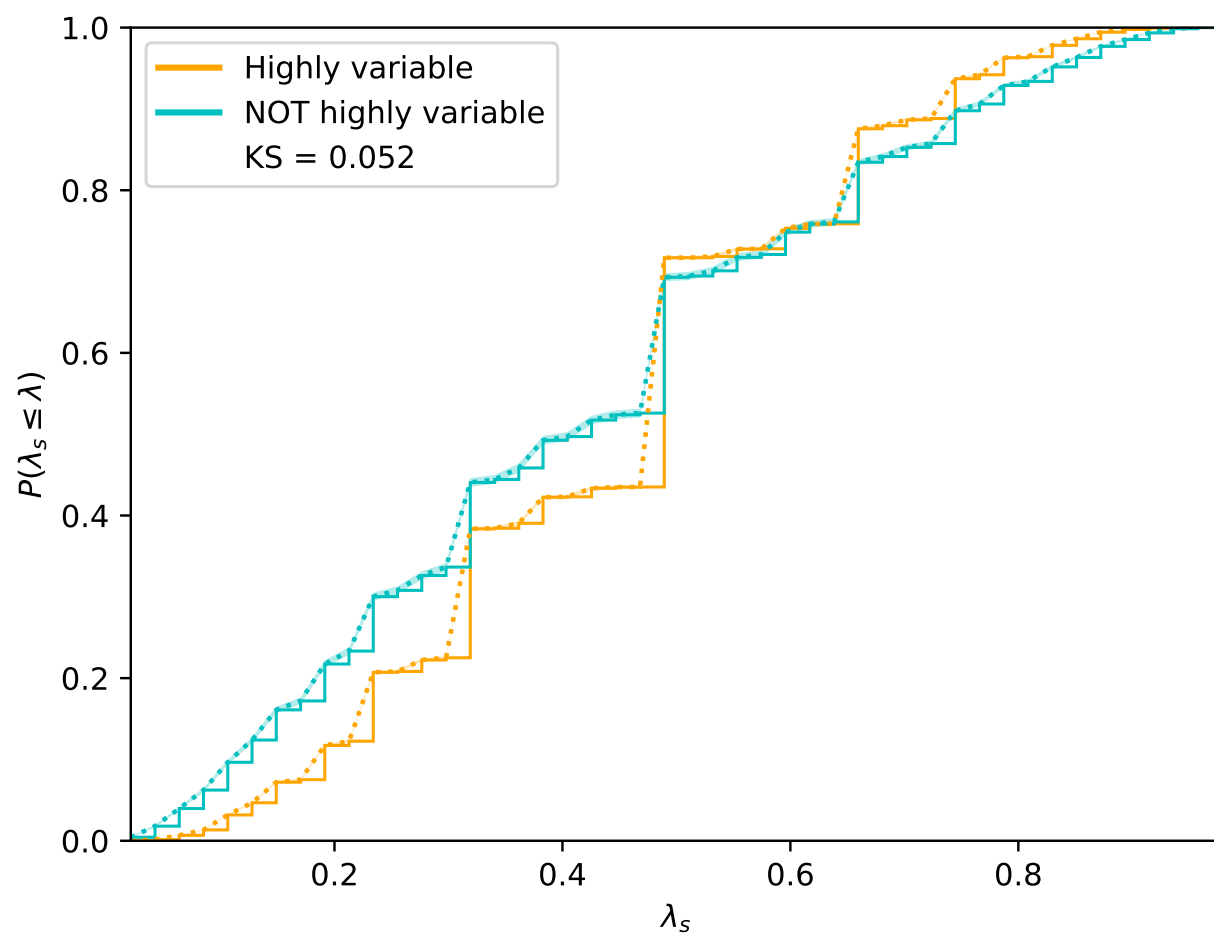


Figure 82: High sex drive reported.

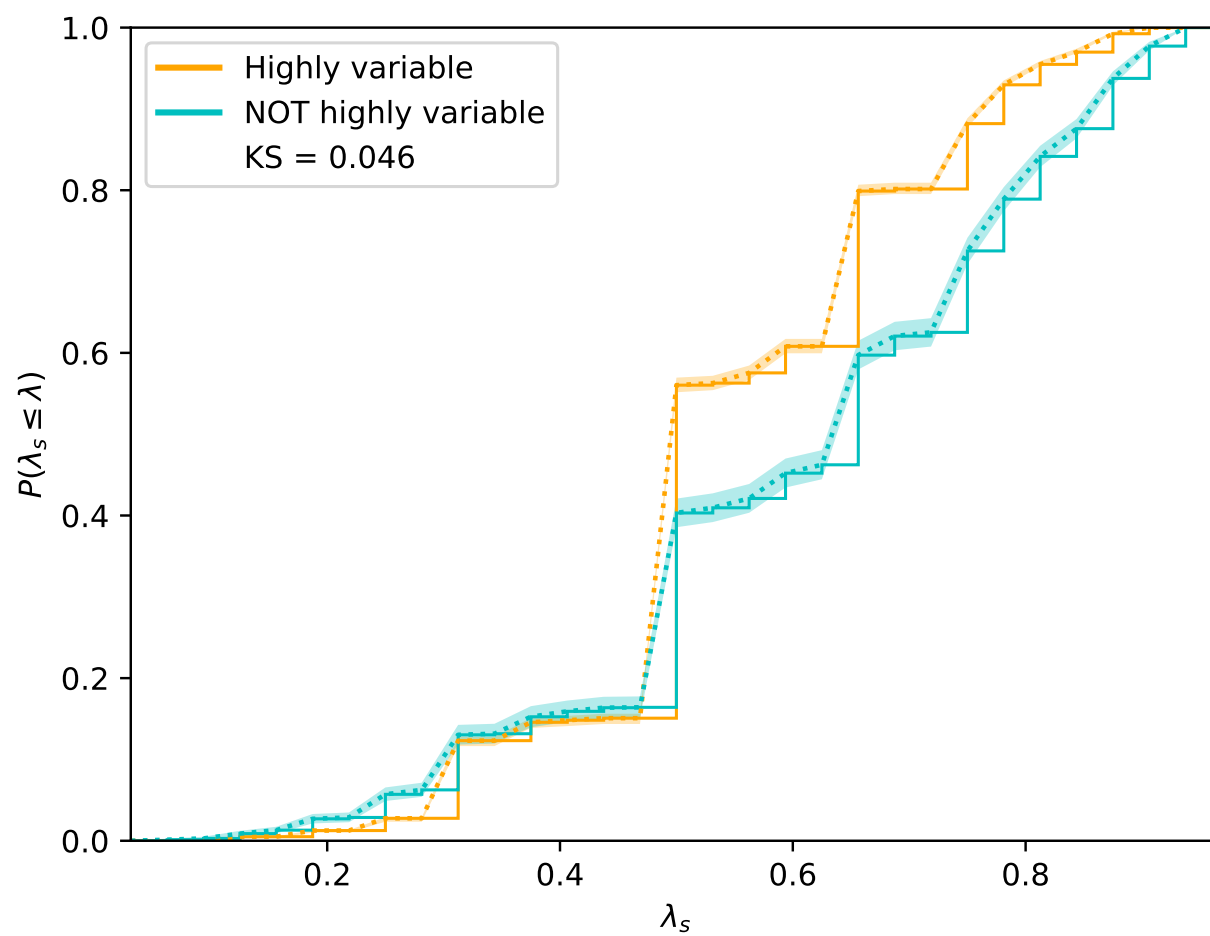


Figure 83: Pain medication taken.

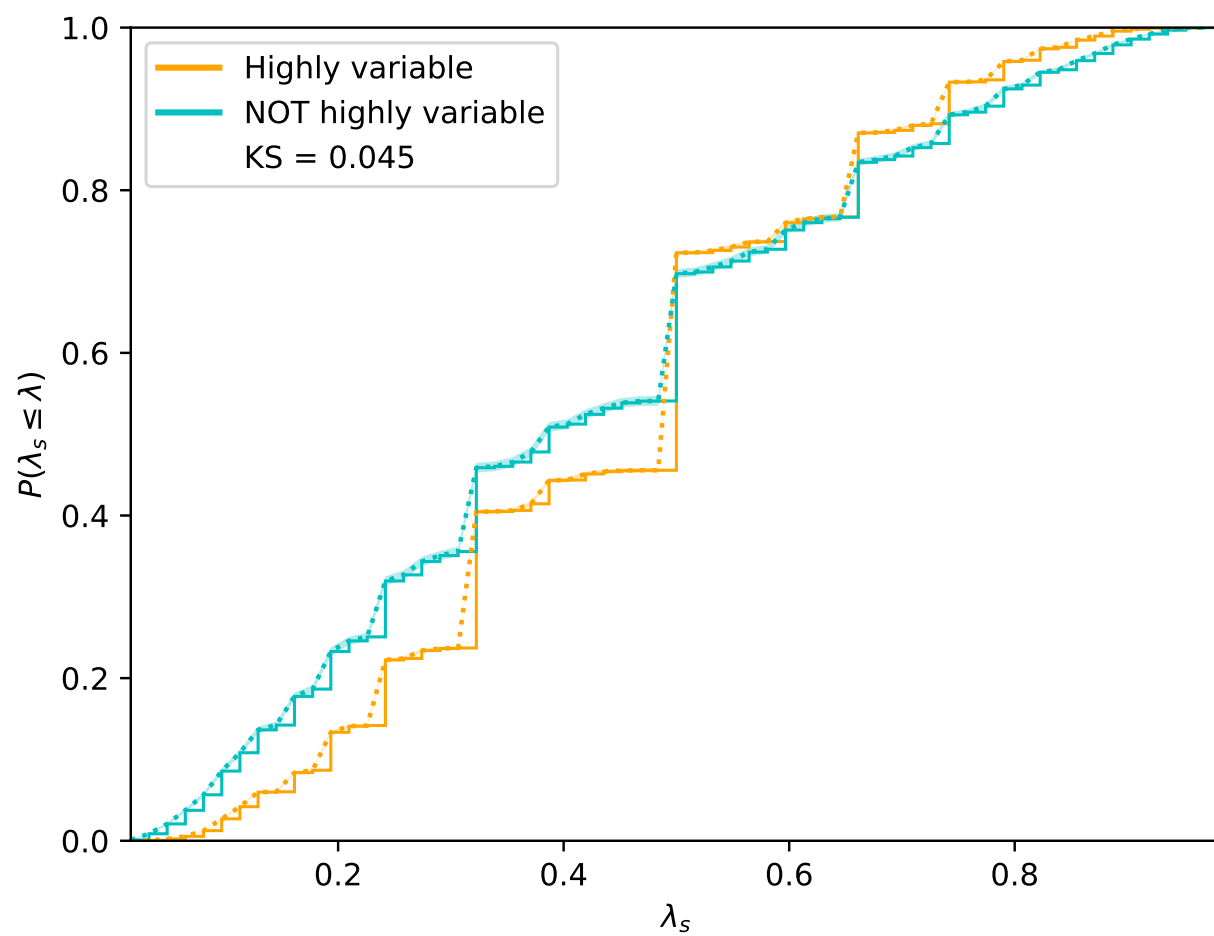


Figure 84: Withdrawal sex reported.

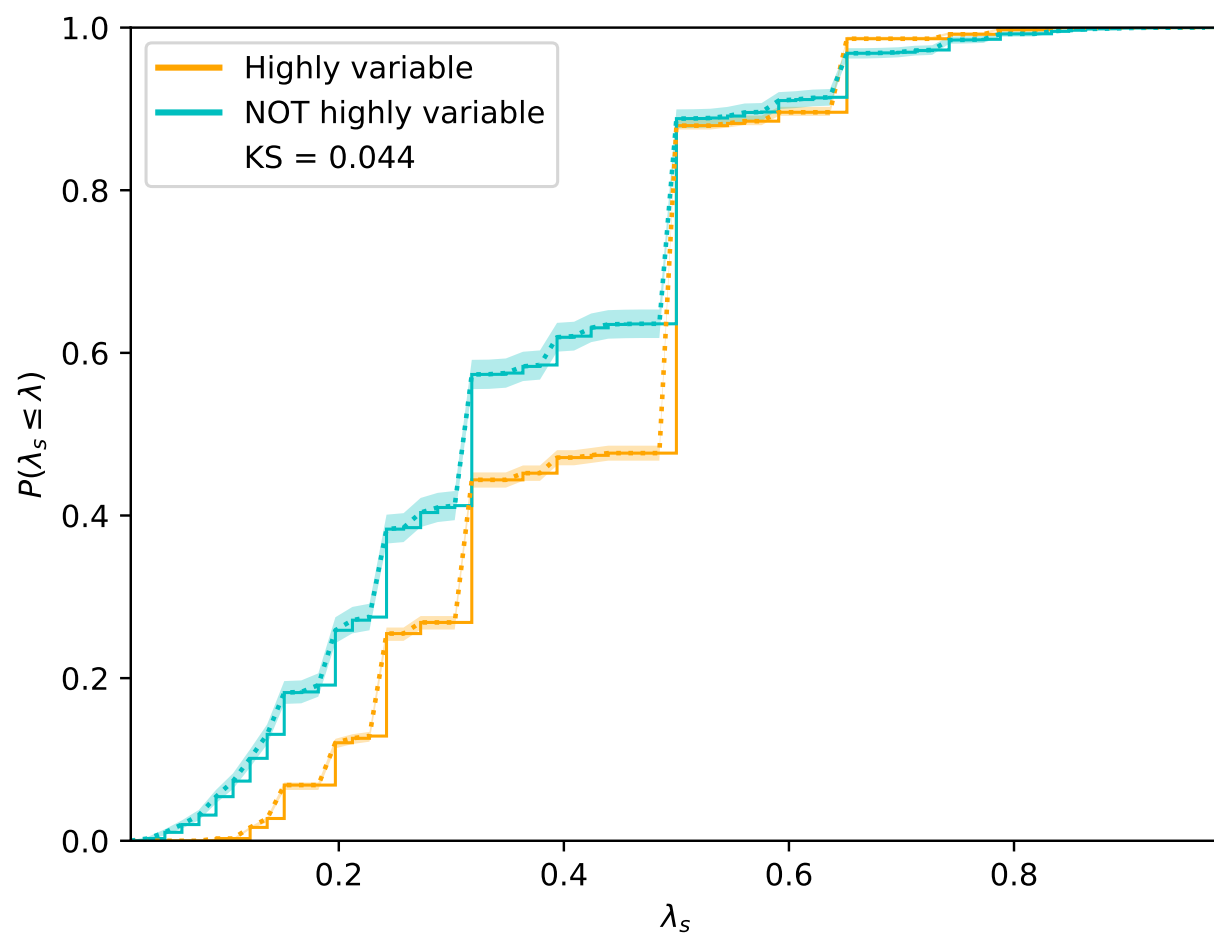


Figure 85: Physical maladies: fever.

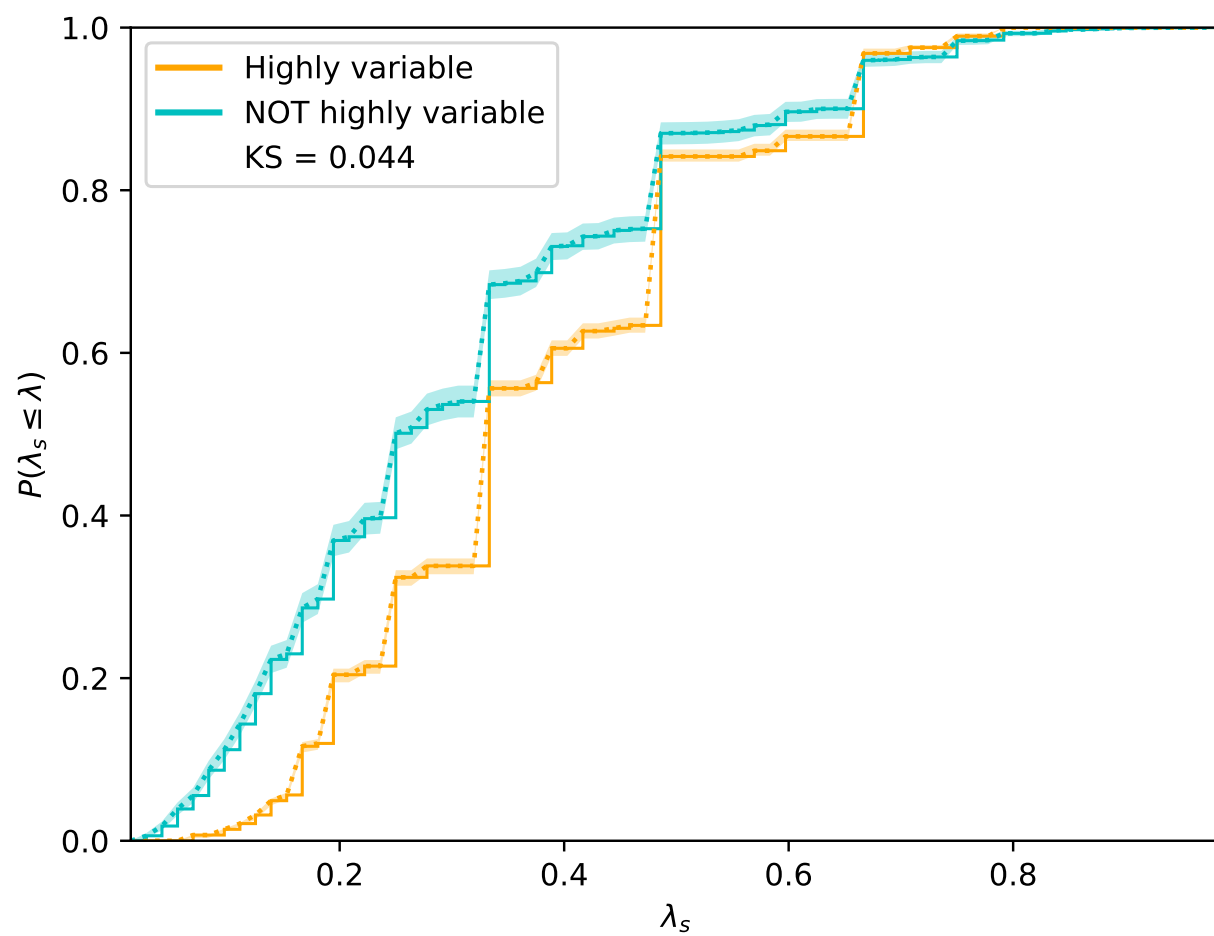


Figure 86: Antibiotic medication taken.

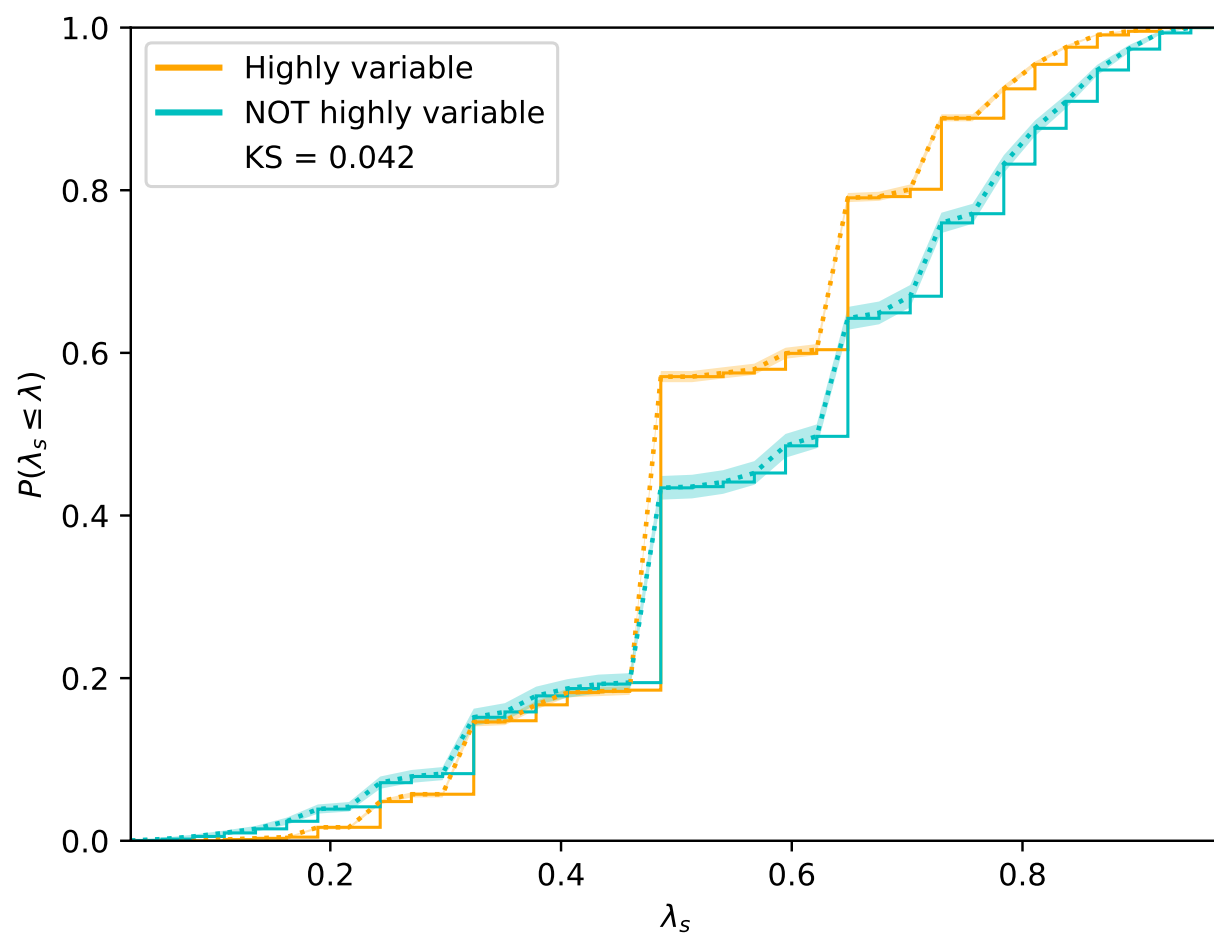


Figure 87: Party-related experience: drinks party.

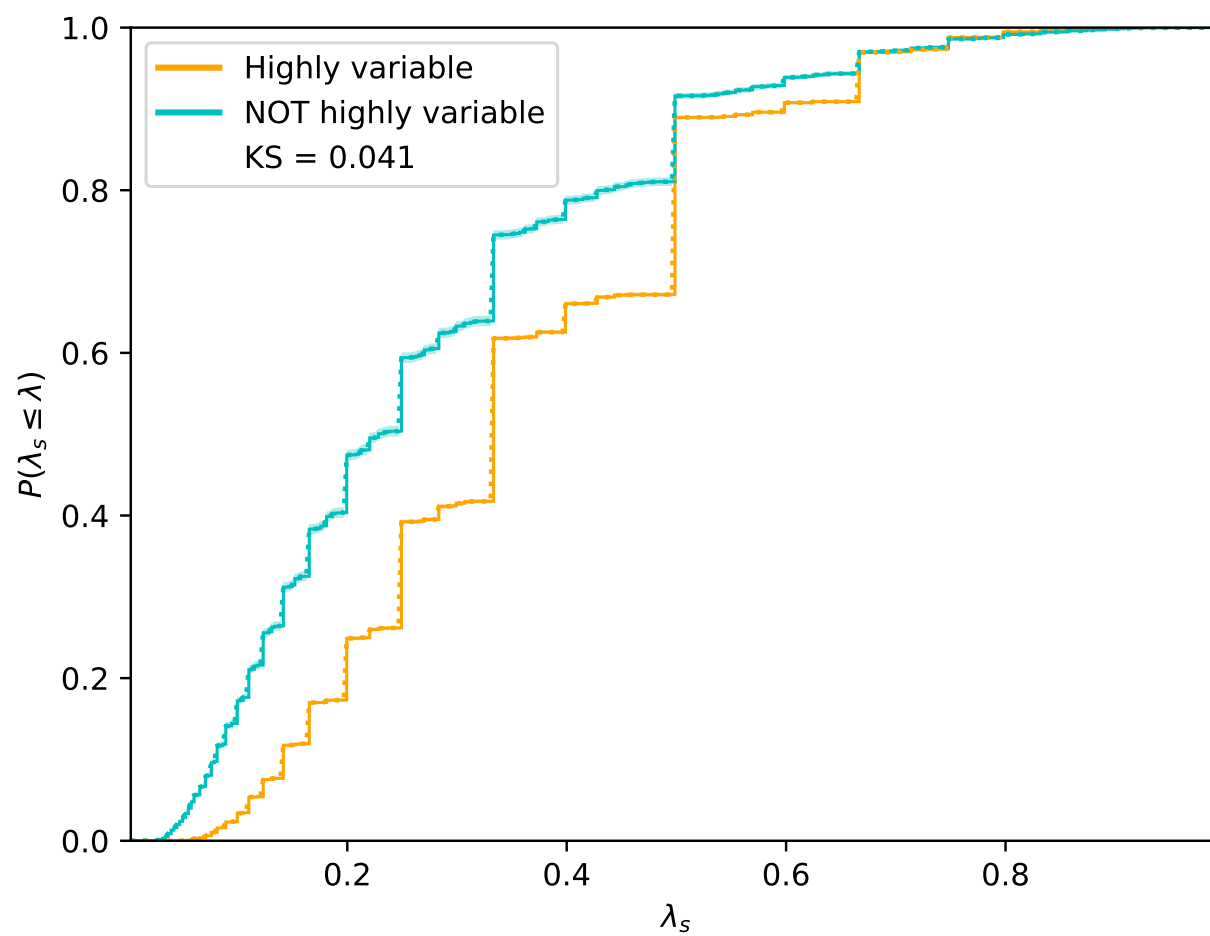


Figure 88: 0-3 hours of sleep.

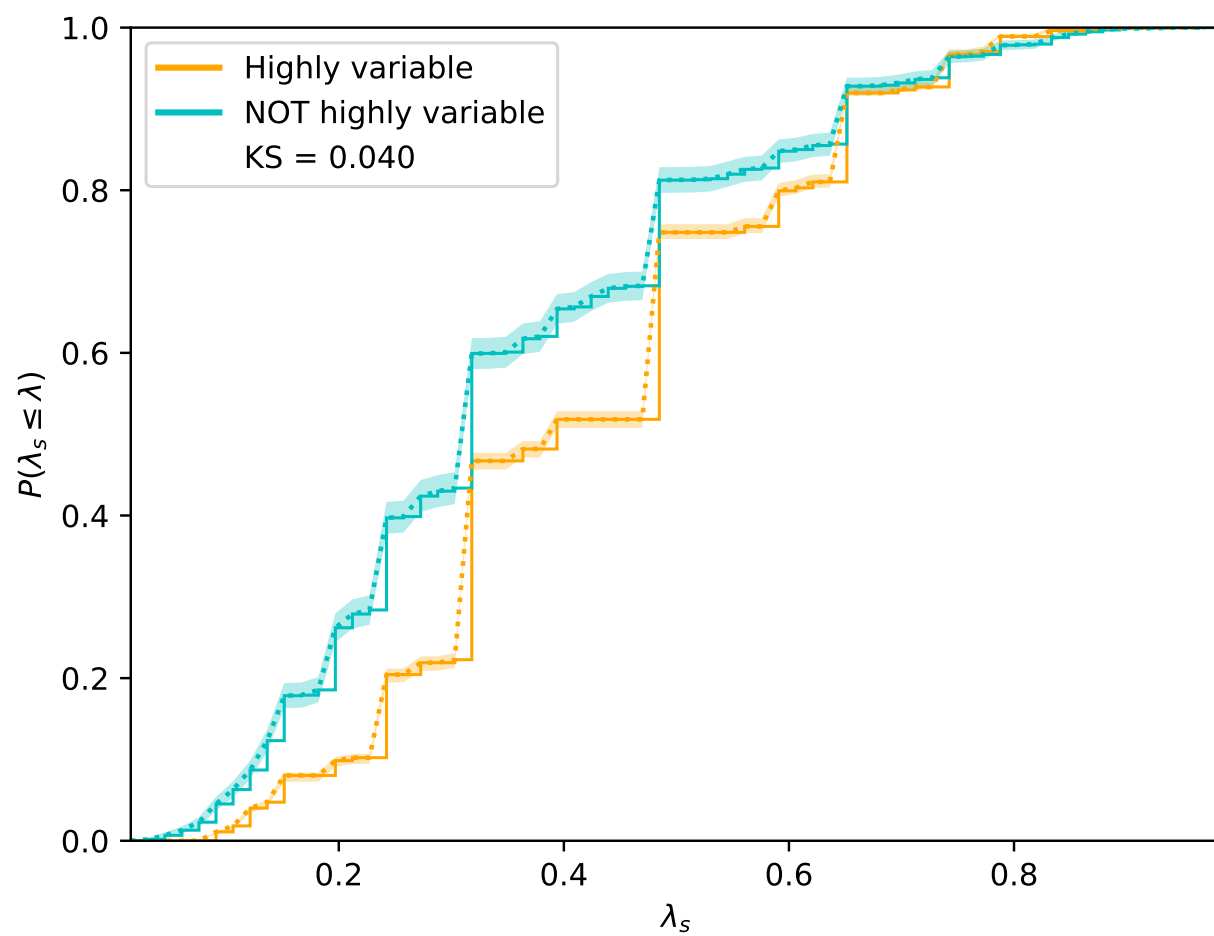


Figure 89: Physical maladies: injury.

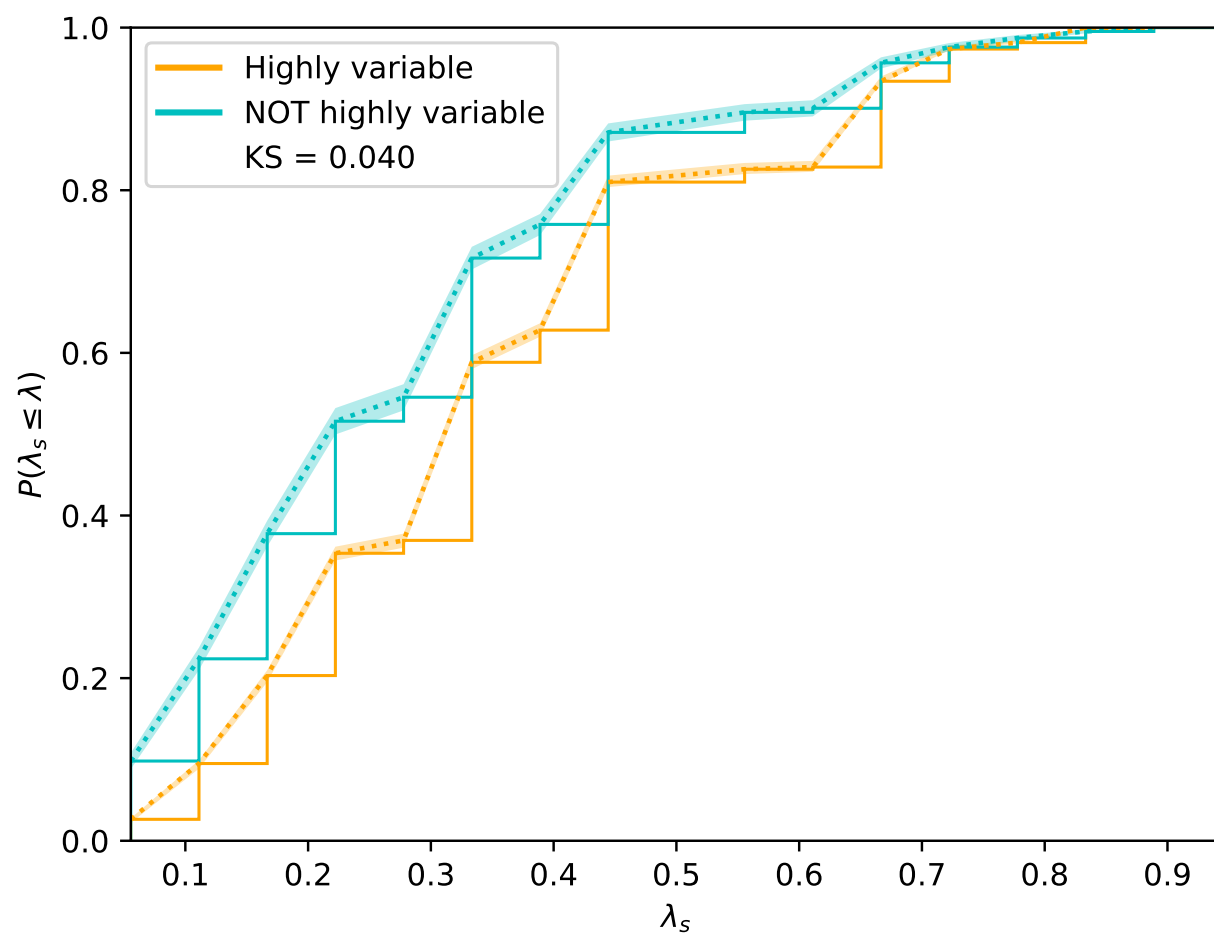


Figure 90: Physical exercise: swimming.

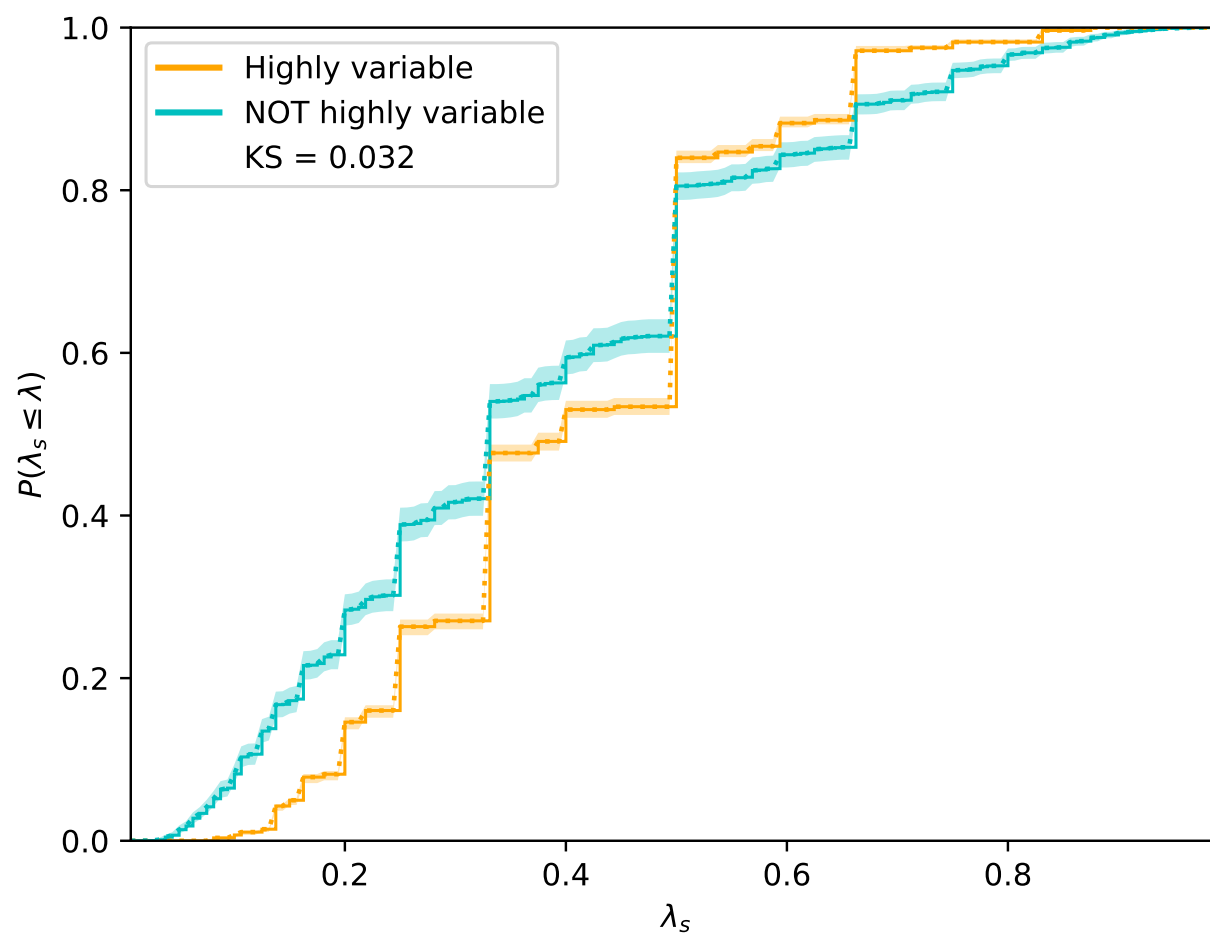


Figure 91: Antihistamine medication taken.