TABLE 4. Adjusted Odds Ratios (95% CI) for Tobacco Use by Product in the Active Duty U.S. Military, HRBS Versus PHA, 2018

	Cigarettes		E-Cigarettes		Cigars	
	HRBS	PHA	HRBS	PHA	HRBS	PHA
Sex						
Male	Ref	Ref	Ref	Ref	Ref	Ref
Female	0.77 (0.65, 0.90)	0.74 (0.72,0.75)	0.72 (0.6, 0.87)	0.58 (0.56,0.59)	0.44 (0.35, 0.55)	0.30 (0.28,0.31)
Age						
17–24	Ref	Ref	Ref	Ref	Ref	Ref
25–34	0.94 (0.78, 1.14)	0.96 (0.94,0.97)	0.40 (0.33, 0.49)	0.50 (0.49,0.51)	0.74 (0.58, 0.93)	0.58 (0.56,0.60)
35–44	0.85 (0.69, 1.04)	1.14 (1.12,1.17)	0.23 (0.18, 0.30)	0.37 (0.36,0.38)	0.63 (0.49, 0.81)	0.59 (0.56,0.62)
45+	0.63 (0.46, 0.85)	0.88 (0.83,0.93)	0.11 (0.07, 0.18)	0.20 (0.18,0.23)	0.55 (0.39, 0.76)	0.70 (0.65,0.75)
Service						
Army	Ref	Ref	Ref	Ref	Ref	Ref
Navy	0.99 (0.79, 1.24)	0.68 (0.66,0.69)	1.05 (0.80, 1.38)	1.16 (1.12,1.19)	1.34 (1.01, 1.78)	0.85 (0.81,0.89)
Marine Corps	1.19 (0.94, 1.50)	0.88 (0.86,0.90)	0.96 (0.73, 1.26)	0.96 (0.93,0.99)	1.32 (0.99, 1.77)	1.09 (1.04,1.14)
Air Force	0.69 (0.57, 0.83)	0.48 (0.47,0.49)	1.21 (0.98, 1.51)	1.15 (1.13,1.18)	0.88 (0.69, 1.12)	0.92 (0.89,0.95)
Coast Guard	0.69 (0.54, 0.88)	0.38 (0.36,0.40)	1.23 (0.93, 1.63)	1.00 (0.94,1.07)	1.31 (0.98, 1.77)	1.11 (1.01,1.21)
Rank						
Enlisted	Ref	Ref	Ref	Ref	Ref	Ref
Officer	0.44 (0.34, 0.56)	0.21 (0.20,0.23)	0.28 (0.20, 0.40)	0.22 (0.20,0.24)	1.15 (0.90, 1.46)	1.33 (1.25,1.41)
STI risk						
No	Ref	Ref	Ref	Ref	Ref	Ref
Yes	1.22 (0.85, 1.75)	1.46 (1.41,1.50)	1.47 (1.01, 2.14)	1.50 (1.45,1.55)	1.15 (0.68, 1.94)	1.64 (1.57,1.73)
Sleep						
5 hours or less	1.56 (1.30, 1.86)	1.44 (1.41,1.47)	1.31 (1.07, 1.62)	1.32 (1.28,1.35)	1.28 (1.02,1.60)	1.30 (1.25,1.35)
5 to less than 7 hours	Ref	Ref	Ref	Ref	Ref	Ref
7–9 hours	0.88 (0.73, 1.07)	0.79 (0.77,0.80)	0.79 (0.63, 0.97)	0.73 (0.71,0.74)	0.89 (0.72, 1.11)	0.76 (0.74,0.79)
9 hours or more	0.96 (0.59, 1.57)	0.85 (0.78,0.92)	0.89 (0.55, 1.45)	0.68 (0.62,0.76)	0.57 (0.29, 1.12)	0.79 (0.67,0.94)
Alcohol use[a]						
No response / none	Ref	Ref	Ref	Ref	Ref	Ref
1–2	1.36 (1.10, 1.68)	1.64 (1.61,1.67)	1.23 (0.97, 1.56)	1.26 (1.23,1.28)	2.10 (1.54, 2.86)	1.70 (1.64,1.76)
3–4	2.39 (1.90, 3.00)	2.68 (2.62,2.74)	2.16 (1.68, 2.79)	1.83 (1.78,1.87)	2.74 (1.96, 3.82)	2.40 (2.30,2.50)
5–6	3.91 (2.88, 5.30)	3.67 (3.52,3.83)	3.09 (2.22, 4.29)	2.11 (2.00,2.22)	2.76 (1.79, 4.24)	2.61 (2.41,2.83)
7–9	3.30 (1.95, 5.60)	3.93 (3.57,4.33)	3.27 (1.76, 6.08)	2.24 (2.00,2.52)	3.78 (1.98, 7.23)	3.01 (2.54,3.58)
10+	5.77 (3.46, 9.61)	5.09 (4.43,5.84)	4.19 (2.44, 7.20)	2.08 (1.75,2.47)	5.43 (3.00, 9.84)	4.22 (3.38,5.26)
BMI group						
Under weight	1.14 (0.48, 2.67)	1.17 (1.08,1.27)	0.38 (0.12, 1.22)	1.08 (0.99,1.19)	0.42 (0.13, 1.32)	0.85 (0.70,1.03)
Normal weight	Ref	Ref		Ref	Ref	Ref
Over weight	0.86 (0.72, 1.03)	0.85 (0.84,0.87)	1.00 (0.82, 1.21)	0.84 (0.82,0.86)	1.22 (0.97, 1.52)	1.07 (1.04,1.11)
Obese	0.86 (0.69, 1.09)	0.87 (0.85,0.89)	0.98 (0.73, 1.31)	0.89 (0.86,0.91)	1.21 (0.91, 1.62)	1.25 (1.20,1.30)
Education						
High school or less	Ref	Ref		Ref	Ref	Ref
Some college	0.82 (0.68, 0.99)	0.68 (0.66,0.69)	0.74 (0.58, 0.93)	0.64 (0.62,0.66)	0.82 (0.64, 1.05)	0.89 (0.85,0.93)
Bachelors degree or more	0.51 (0.41, 0.64)	0.38 (0.37,0.40)	0.65 (0.49, 0.85)	0.43 (0.41,0.45)	0.98 (0.76, 1.25)	0.99 (0.93,1.05)
Race and ethnicity						
Non-Hispanic White	Ref	Ref		Ref	Ref	Ref
Non-Hispanic Black	0.58 (0.45, 0.74)	0.61 (0.60,0.63)	0.71 (0.54, 0.94)	0.75 (0.73,0.77)	1.17 (0.89, 1.56)	1.69 (1.63,1.75)
Hispanic	0.73 (0.59, 0.90)	0.68 (0.66,0.69)	0.81 (0.64, 1.03)	0.74 (0.72,0.76)	0.80 (0.63, 1.03)	0.90 (0.86,0.94)
Non-Hispanic Other	0.88 (0.69, 1.14)	0.97 (0.95,1.00)	0.89 (0.68, 1.17)	1.02 (0.99,1.05)	0.89 (0.65, 1.22)	0.77 (0.73,0.82)

Abbreviations: CI, confidence interval; HRBS, Health Risk Behavior Survey; PHA, Periodic Health Assessment; e-cigarette, electronic cigarette; STI, sexually-transmitted infection; BMI, body mass index.

[a] PHA MHA question 5b does not allow for assessment of missing data; thus, no response to this question is assumed as 0 drinks on a typical day when drinking.

Note: These analyses used weighted (HRBS) and unweighted (PHA) logistic regression.