

**Supplemental Material S5.** Analysis of Swallowing Physiology: Events, Kinematics and Timing (ASPEKT) other residue amounts between genders across age categories for each swallow task.

Swallow Task		Young (21–39 years)		Middle (40–59 years)		Old (60+ years)	
		Males	Females	Males	Females	Males	Females
5 ml thin	<i>M (SD)</i>	0.18 (0.12)	0.08 (0.05)	0.12 (0.11)	0.00 (0.00)	0.06 (0.43)	0.04 (0.03)
	95% CI	–0.07, 0.42	–0.03, 0.19	–0.09, 0.34	n/a	–0.03, 0.15	–0.02, 0.10
	<i>Mdn</i>	0.00	0.00	0.00	0.00	0.00	0.00
	Range	0.00, 3.76	0.00, 1.44	0.00, 3.66	n/a	0.00, 0.54	0.00, 1.03
	<i>n</i>	33	37	35	35	17	38
Cup sip thin	<i>M (SD)</i>	0.27 (0.11)	0.07 (0.05)	0.40 (0.27)	0.01 (0.01)	0.56 (0.28)	0.35 (0.14)
	95% CI	0.06, 0.49	–0.03, 0.17	–0.18, 0.99	–0.01, 0.03	–0.03, 1.15	0.08, 0.63
	<i>Mdn</i>	0.00	0.00	0.00	0.00	0.00	0.00
	Range	0.00, 2.32	0.00, 1.59	0.00, 9.46	0.00, 0.27	0.00, 4.29	0.00, 3.10
	<i>n</i>	33	37	35	35	17	38
Sequential thin	<i>M (SD)</i>	0.48 (0.18)	0.07 (0.03)	0.34 (0.64)	0.17 (0.09)	0.68 (0.22)	0.36 (0.13)
	95% CI	0.10, 0.85	0.00, 0.14	0.03, 0.58	–0.01, 0.35	0.22, 1.13	0.10, 0.62
	<i>Mdn</i>	0.00	0.00	0.00	0.00	0.00	0.00
	Range	0.00, 4.53	0.00, 0.88	0.00, 3.74	0.00, 2.10	0.00, 2.51	0.00, 3.22
	<i>n</i>	33	37	35	35	17	38
5 ml nectar	<i>M (SD)</i>	0.17 (0.76)	0.03 (0.03)	0.24 (0.13)	0.01 (0.01)	0.23 (0.13)	0.14 (0.07)
	95% CI	0.02, 0.33	–0.03, 0.10	0.03, 0.64	–0.01, 0.03	–0.04, 0.51	0.00, 0.28
	<i>Mdn</i>	0.00	0.00	0.00	0.00	0.00	0.00
	Range	0.00, 1.93	0.00, 1.10	0.00, 3.74	0.36	0.00, 1.62	0.00, 1.62
	<i>n</i>	33	37	35	35	17	38
Cup sip nectar	<i>M (SD)</i>	0.29 (0.14)	0.06 (0.40)	0.27 (0.13)	0.07 (0.07)	0.39 (0.16)	0.36 (0.16)
	95% CI	0.00, 0.59	–0.02, 0.14	0.01, 0.53	–0.07, 0.22	0.04, 0.73	0.04, 0.67

	<i>Mdn</i>	0.00	0.00	0.00	0.00	0.00	0.00
	Range	0.00, 3.01	0.00, 1.38	0.00, 2.77	0.00, 2.32	0.00, 1.87	0.00, 4.11
	<i>n</i>	33	37	35	35	17	38
Sequential nectar	<i>M (SD)</i>	0.38 (0.16)	0.15 (0.60)	0.71 (0.24)	0.17 (0.07)	0.81 (0.30)	0.59 (0.17)
	95% CI	0.05, 0.71	0.03, 0.27	0.22, 1.20	0.02, 0.32	0.16, 1.45	0.41, 0.94
	<i>Mdn</i>	0.00	0.00	0.00	0.00	0.00	0.00
	Range	0.00, 4.10	0.00, 1.34	0.00, 6.64	0.00, 1.78	0.00, 4.02	0.00, 3.28
	<i>n</i>	33	37	35	35	17	38
	<i>M (SD)</i>	0.32 (0.15)	0.05 (0.03)	0.46 (0.19)	0.05 (0.41)	0.53 (0.23)	0.37 (0.13)
5 ml honey	95% CI	0.13, 0.63	−0.03, 0.11	0.08, 0.84	−0.03, 0.14	0.05, 1.02	0.10, 0.64
	<i>Mdn</i>	0.00	0.00	0.00	0.00	0.00	0.00
	Range	0.00, 3.52	0.00, 1.19	0.00, 4.84	0.00, 1.41	0.00, 2.98	0.00, 3.26
	<i>n</i>	33	37	35	35	17	38
	<i>M (SD)</i>	0.11 (0.06)	0.00 (0.00)	0.08 (0.06)	0.00 (0.00)	0.49 (0.23)	0.20 (0.11)
	95% CI	0.00, 0.23	n/a	−0.03, 0.19	n/a	0.00, 0.99	−0.02, 0.41
5 ml pudding	<i>Mdn</i>	0.00	0.00	0.00	0.00	0.00	0.00
	Range	0.00, 1.37	n/a	0.00, 1.79	n/a	0.00, 2.62	0.00, 2.84
	<i>n</i>	33	37	35	35	17	38
	<i>M (SD)</i>	0.04 (0.04)	0.00 (0.00)	0.01 (0.01)	0.05 (0.05)	0.00 (0.00)	0.04 (0.42)
	95% CI	−0.04, 0.12	n/a	−0.01, 0.02	−0.05, 0.14	n/a	−0.04, 0.13
	<i>Mdn</i>	0.00	0.00	0.00	0.00	0.00	0.00
Solid	Range	0.00, 1.26	n/a	0.25	0.00, 1.59	n/a	0.00, 1.55
	<i>n</i>	33	37	35	35	17	38