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Analysis of an Evidence-based Pediatric Asthma Management Tool for Providers Confirms Linkages between Asthma and Known Risk Factors in a Vermont Practice

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Table 1: Analysis of Easy Breathing Data

Measure	Sub-Category	N (%) Sample, N=206	95% CI	N (%) Asthma, N=55	N (%) No Asthma, N=150	Fisher's Exact Test P value	Odds Ratio (Lower, Upper)	N (%) Persistent Asthma, Total N =19	N (%) Intermittent Asthma, Total N =35	Fisher's Exact Test P value	Odds Ratio (Lower, Upper)
Demographics	Female	141 (68.4)	61.6, 74.7	34 (61.8)	106 (70.7)	0.301	0.67 (0.35, 1.28)	22 (64.7)	12 (63.2)	1	0.94 (0.29, 3.01)
	Male	62 (30.1)	23.9, 36.9	20 (36.4)	42 (28.0)	*	*	*	*	*	*
	Sex not stated	3 (1.46)	0.3, 4.2	1 (1.82)	2 (1.33)	*	*	*	*	*	*
	Age <10 Years	114 (55.3)	48.3, 62.3	35 (63.6)	78 (52.0)	0.156	1.62 (0.86, 3.05)	13 (68.4)	22 (61.1)	0.769	1.38 (0.37, 5.48)
	Age ≥ 10 years	92 (44.7)	37.8, 51.7	20 (26.8)	72 (48.0)	*	*	6 (31.6)	14 (38.9)	*	*
Insurance	Private Insurance	143 (69.4)	62.6, 75.6	32 (58.2)	111 (74.0)	0.039	0.49 (0.26, 0.94)	9 (47.4)	22 (62.9)	0.388	0.53 (0.17, 1.65)
	Medicaid	54 (26.2)	20.4, 32.8	20 (36.4)	33 (22.0)	0.048	2.026 (1.04, 3.97)	9 (47.4)	11 (31.4)	0.376	1.96 (0.62, 6.20)
	No Answer/ Don't Know	7 (3.4)	1.4, 6.9	3 (5.5)	4 (2.7)	*	*	1 (5.3)	2 (5.7)	*	*
	Other	2 (1.0)	0.1, 3.5	0 (0.0)	2 (1.3)	*	*	0 (0.0)	0 (0.0)	*	*
Reported Family History of Asthma	Any	70 (34.0)	27.5, 40.9	26 (47.3)	43 (28.7)	0.019	2.23 (1.18, 4.22)	10 (52.6)	15 (42.9)	0.573	1.48 (0.48, 4.55)
	Mother	35 (17.0)	12.1, 22.8	13 (23.6)	21 (14.0)	0.136	1.90 (0.88, 4.12)	6 (31.6)	7 (20.0)	0.506	1.84 (0.52, 6.60)
	Father	18 (8.7)	5.3, 13.5	7 (12.7)	11 (7.3)	0.266	1.84 (0.68, 5.02)	3 (15.8)	4 (11.4)	0.687	1.45 (0.29, 7.30)
	Grandparent	23 (11.2)	7.2, 16.3	7 (12.7)	16 (10.7)	0.803	1.22 (0.47, 3.15)	3 (15.8)	3 (8.6)	0.653	2.00 (0.36, 11.05)
	Sibling	17 (8.3)	4.9, 12.9	6 (10.9)	11 (7.3)	0.403	1.55 (0.54, 4.41)	1 (5.3)	5 (14.3)	0.408	0.33 (0.04, 3.09)
Tobacco Smoke Exposure More than Two Times per week	Any	12 (5.8)	3.1, 10.0	7 (12.7)	5 (3.3)	0.028	4.23 (1.28, 13.95)	3 (15.8)	4 (11.4)	0.687	1.45 (0.29, 7.30)
	Mother	6 (2.9)	1.1, 6.2	3 (5.5)	3 (2.0)	0.346	2.83 (0.55, 14.45)	2 (10.5)	1 (2.9)	0.281	4.00 (0.34, 47.29)
	Father	3 (1.5)	0.3, 4.2	2 (3.6)	1 (.7)	0.176	5.62 (0.50, 63.29)	1 (5.3)	1 (2.9)	1	1.89 (0.11, 32.01)
	Grandparent	2 (1.0)	0.1, 3.5	1 (1.8)	1 (.7)	0.466	2.76 (0.17, 44.89)	0 (0)	1 (2.9)	1	Undefined
	Other	6 (2.9)	1.1, 6.2	4 (7.3)	2 (1.3)	0.046	5.80 (1.03, 32, 64)	1 (5.3)	0 (0)	1	0.59 (0.06, 6.13)
Pet Exposure	Any	148 (71.8)	65.2, 77.9	44 (80.0)	104 (69.3)	0.16	1.77 (0.84, 3.73)	16 (84.2)	27 (77.1)	0.728	1.59 (0.3, 10.5)
	Cat	69 (33.5)	27.1, 40.4	24 (43.6)	45 (30.0)	0.095	1.81 (0.96, 3.42)	12 (63.2)	11 (31.4)	0.043	3.7 (1.00, 14.37)
	Dog	115 (55.8)	48.8, 62.7	37 (67.3)	78 (52.0)	0.058	1.90 (0.99, 3.63)	10 (52.6)	26 (74.3)	0.136	0.38 (0.10, 1.47)
	Bird	3 (1.5)	0.3, 4.2	1 (1.8)	2 (1.3)	1	1.37 (0.12, 15.42)	1 (5.3)	0 (0.0)	0.352	Undefined
	Rodent	8 (3.9)	1.7, 7.5	3 (5.5)	5 (3.3)	0.445	1.67 (0.38, 7.25)	2 (10.5)	1 (2.9)	0.28	4.00 (0.19, 47.29)
	Other	6 (2.9)	1.1, 6.2	1 (1.8)	5 (3.3)	1	0.54 (0.06, 4.70)	1 (5.3)	0 (0.0)	0.352	Undefined
Other	Eczema History	46 (22.3)	16.8, 28.6	12 (21.8)	34 (22.6)	1	0.95 (0.45, 2.00)	5 (26.3)	7 (20.0)	0.734	1.43 (0.30, 6.34)
	Woodsmoke	36 (17.5)	12.6, 23.4	9 (16.4)	27 (18.0)	0.839	0.89 (0.39, 2.04)	3 (15.8)	5 (14.3)	1	1.13 (0.15, 6.67)

*Not calculated due to small sample size or redundancy