

## **Supplemental Material to:**

Mold JW, Fox C, Wisniewski A, et al. Implementing asthma guidelines using practice facilitation and local learning collaboratives: a randomized controlled trial. *Ann Fam Med*. 2014;12(3)223-240.

**Supplemental Appendix: Pre- to Postintervention Change in Proportion of Patients where the Guidelines were Implemented by Practice**

Study Arm / Practice	Range of sample size	Implementation Guideline					
		Assessment of Asthma Severity	Assessment of Environmental Triggers	Assessment of Asthma Action Plan	Assessment of Level of Control	Assessment of Asthma Controller Medications	Assessment of Asthma Follow-up Visits
Control arm:							
1	3 - 4	25.0%	25.0%	0.0%	0.0%	25.0%	NA
2	8 - 24	-8.3%	12.5%	8.3%	-13.0%	15.0%	0.0%
3	1 - 20	-10.0%	0.0%	-5.3%	-5.3%	0.0%	0.0%
4	4 - 19	15.8%	-5.3%	0.0%	25.0%	-13.3%	25.0%
5	1 - 9	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%
6	19 - 37	16.2%	8.1%	0.0%	-12.1%	2.9%	10.5%
7	11 - 22	28.6%	13.6%	-14.3%	5.0%	-5.6%	-18.2%
8	3 - 8	37.5%	0.0%	0.0%	-20.0%	16.7%	0.0%
9	6 - 22	13.6%	31.8%	0.0%	14.3%	0.0%	16.7%
10	3 - 8	0.0%	12.5%	12.5%	12.5%	-12.5%	0.0%
11	10 - 19	21.1%	31.6%	28.6%	6.3%	-5.9%	40.0%

PF arm:

1	8 - 25	8.3%	-12.0%	0.0%	9.1%	4.3%	-12.5%
2	9 - 19	26.3%	5.3%	15.8%	31.6%	15.8%	0.0%
3	7 - 32	6.7%	28.1%	3.3%	25.8%	18.5%	28.6%
4	20 - 56	40.7%	14.3%	-1.8%	21.8%	2.1%	30.0%
5	31 - 57	47.4%	22.8%	0.0%	14.3%	-4.3%	0.0%
6	2 - 4	0.0%	0.0%	0.0%	-66.7%	-50.0%	-66.7%
7	20 - 34	29.4%	17.6%	10.0%	35.3%	3.0%	10.0%
8	8 - 37	44.4%	10.8%	5.6%	8.6%	0.0%	12.5%
9	2 - 12	-25.0%	-8.3%	0.0%	0.0%	-14.3%	0.0%
10	3 - 14	7.7%	28.6%	0.0%	8.3%	7.1%	-66.7%

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LLC arm:

1	16 - 24	4.2%	0.0%	0.0%	0.0%	23.8%	6.3%
2	2 - 13	8.3%	-23.1%	0.0%	9.1%	27.3%	0.0%
3	17 - 31	26.7%	-9.7%	-3.3%	35.5%	3.8%	11.8%
4	10 - 31	3.2%	29.0%	0.0%	24.1%	15.4%	0.0%
5	10 - 20	5.0%	-10.0%	5.0%	10.0%	-5.9%	-10.0%
6	1 - 5	0.0%	0.0%	25.0%	20.0%	0.0%	0.0%
7	2 - 4	25.0%	75.0%	0.0%	33.3%	0.0%	50.0%
8	12 - 45	2.4%	13.3%	6.7%	23.8%	-2.4%	8.3%
9	0 - 1	0.0%	0.0%	NA	NA	NA	NA
10	8 - 28	22.2%	10.7%	25.0%	24.0%	22.7%	12.5%

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PF+LLC arm:

1	8 - 35	31.4%	37.1%	0.0%	9.7%	0.0%	-12.5%
2	20 - 28	-9.1%	10.7%	0.0%	40.7%	24.0%	0.0%
3	42 - 58	5.5%	10.3%	-1.8%	-1.8%	0.0%	7.0%
4	8 - 23	60.0%	21.7%	4.5%	52.2%	20.0%	50.0%
5	18 - 39	-16.7%	10.3%	0.0%	-2.9%	-11.1%	11.1%
6	28 - 41	34.1%	26.8%	10.5%	28.2%	10.0%	3.6%
7	3 - 19	78.9%	5.3%	5.3%	30.8%	33.3%	66.7%
8	8 - 29	34.5%	27.6%	13.8%	36.0%	3.7%	25.0%
9	9 - 20	5.0%	20.0%	5.3%	11.1%	0.0%	33.3%
10	4 - 18	0.0%	27.8%	5.6%	33.3%	6.3%	-25.0%
11	3 - 17	-12.5%	0.0%	0.0%	28.6%	18.2%	-33.3%
12	3 - 5	40.0%	0.0%	0.0%	0.0%	20.0%	33.3%

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NA = Not available. Change in proportion implementing guideline = post-intervention minus pre-intervention proportion in practice.

The range in the sample size available across the guidelines reflects that subjects were not eligible for inclusion in the analyses for all guideline measures and some were missing information needed to assess implementation of particular guidelines. Positive proportions reflect an increase in the proportion implementing the guideline, whereas negative values correspond to a decline in proportion implementing the guideline.