Table E1: Comparison of Entry Criteria for Three Trials involving Preschool Children			
Tuble E1. Comparison of End	INFANT	PEAK	MIST
Years conducted	2013-2015	2001-2005	2008-2010
Number of primary sites	9	5	7
Network conducted	AsthmaNet	CARE Network	CARE Network
Source of funding	NHLBI	NHLBI	NHLBI
Ages enrolled	12-59 months	24-48 months	12-53 months
Symptom criteria for	NHBLI guideline-based	Meets the modified	Meets the modified
inclusion	criteria for daily asthma	asthma predictive index	asthma predictive index
	(step-2) controller	·	·
	medication	(≥4 wheezing episodes	(≥4 wheezing episodes
		during the past 12	during the past 12
	(Symptom criteria:	months. At least one	months or 3 wheezing
	daytime asthma >2	exacerbation was	episodes and controller
	days/week; nighttime	confirmed by a physician	use for >3 months. At
	awakening in the last	per parental report).	least one exacerbation
	month, >2 exacerbations		was confirmed by a
	in the past 6 months, >4		physician per parental
	wheezing episodes over		report)
	the past 12 months. Can		
	be included if additionally		Severe exacerbation
	on ICS or LTRA for <u>&gt;</u> 90		requiring systemic
	days in the last 6		glucocorticoids or higher
	months).		level of care
Exclusions			
Life-threatening asthma	Yes	Yes	Yes
Other chronic lung disease	Yes	Yes	Yes
Gastroesophageal Reflux	Yes	Yes	Yes
Prematurity Other chronic disease	Yes Yes	Yes Yes	Yes Yes
Recent steroids	Yes	Yes	Yes
Recent hospitalizations	Yes	No	Yes
Medication exclusions	Cannot be higher than	Cannot have used ICS >4	N/A
iviedication exclusions	step 2 NAEPP asthma	months in the past year	IN/A
	guideline therapy	months in the past year	
	Same the tracky		
Intervention duration	16 weeks per cross-over	2 years	1 year
Intervention products	Crossover of:	Flovent® HFA, 44 mcg	Pulmicort Respules ®, 0.5
·	Flovent® HFA, 44 mcg per	per inhalation, 2	mg, 1 nebulization daily
	inhalation, 2 inhalations	inhalations twice daily	
	twice daily, and		vs
	Singulair®, 4 mg granules	vs	
	or chewable tablets by		Pulmicort Respules ®,
	mouth once daily in the	Placebo	1 mg, 1 nebulization BID
	evening, and		x 7 days with upper
	Flovent® HFA, 44 mcg per		respiratory tract
	inhalation, 2 inhalations		infection.
	with as needed SABA for		
	asthma symptoms		
CARE – Childhood Asthma Research & Education, NHLBI – National Heart Lung and Blood Institute, NAEPP –			

CARE – Childhood Asthma Research & Education, NHLBI – National Heart Lung and Blood Institute, NAEPP – National Asthma Education & Prevention Program, HFA – hydrofluoroalkane, SABA – short acting beta-agonist