<u>TABLE 1</u>: Demographics of patient group challenged for egg compared with patient groups challenged for other foods

	All Foods (not egg)	Egg
Male, no. (%)	1171/1703 (69)	424/601 (70)
Atopic history, no. (%)		
Asthma	1021/1703 (60)	341/601 (57)
Atopic Dermatitis	80/1703 (46)	315/601 (52)
Seasonal Allergic Rhinitis	719/1703 (42)	99/601 (16)
Previous reaction	936/1434 (65%)	*374/542 (69%)
Age (years), mean ± SD	6.7 ± 3.4	5.1 ± 2.9*
Positive OFCs; age (years), mean ± SD	6.3 ± 3.1	5.1 ± 2.8*

^{*}p<0.001

TABLE 2: Skin test of population with egg challenges based on outcome

	Wheal (mm)	95% Confidence
	mean ± SD	Interval
Negative egg challenges	4.4 ± 2.8*	4.1-4.7
All positive egg challenges	6.5 ± 3.4 *	6.0-6.9
Positive egg challenges, not requiring epinephrine	6.5 ± 3.1	6.0-7.1
Positive egg challenges, requiring epinephrine	6.9 ± 4.2	5.8-7.9

^{*}p<0.0001 T Test

Skin testing was performed using commercial whole egg extract. Egg OFCs were conducted with the use of raw egg powder followed by a scrambled egg.

TABLE 3: Prevalence of gastrointestinal symptoms in positive OFCs: egg challenges compared with milk, soy, peanut or tree nuts

	Egg, no. (%)	Milk	Peanut	Tree nuts
GI only	37/244 (15%)	15/178 (8%)*	14/180 (8%) *	3/53 (7%)*
GI + skin	32/244(13%)	23/178 (13%)	20/180 (11%)	6/53 (11%)
Any GI	69/244(28)	42/178 (23%)	35/180 (20%)*	9/53 (17%)
Lower respiratory	65/244 (27%)	45/151 (30%)	60/139 (43%	16/18 (88%)#
Multi-system	144/244 (59%)	111/178 (62%)	116/180 (64%)	38/53 (71.7)

^{*}p<0.05 $\ensuremath{^{\#}p}\xspace<0.001$ compared to frequency of reactions to egg

TABLE 4: Epinephrine treatment in OFCs with positive (failed) outcome

Egg, no. (%)	Milk, no. (%)	Peanut, no. (%)	Tree nuts, no.(%)
1/37 (3%)	2/19 (10%)	1/15 (8%)	0/3 (0%
7/32(22%)	4/23 (17%)	8/20 (40%)	3/6 (50%)
8/69 (11%)	8/42 (19%)	9/35 (25%)	3/9 (33%)
66/244 (27%)	54/178 (30%)	76/180 (42.2%) [#]	29/53 (55%)#
	1/37 (3%) 7/32(22%) 8/69 (11%)	1/37 (3%) 2/19 (10%) 7/32(22%) 4/23 (17%) 8/69 (11%) 8/42 (19%) 54/178 (30%)	1/37 (3%) 2/19 (10%) 1/15 (8%) 7/32(22%) 4/23 (17%) 8/20 (40%) 8/69 (11%) 8/42 (19%) 9/35 (25%) 54/178 (30%) 76/180

#-p<0.001

Figure 1:

Rate of reaction on oral food challenges: Food challenges in the last 10 years at The Children's Hospital of Philadelphia were compared. The percentage of oral food challenges with reaction (positive) and percentage with no reaction (negative) are shown. In addition, the number of challenges performed to each food group are listed.

