Study	Study	Route of	Study	Study	Study	Main results and rate of systemic reactions during immunotherapy
reference	design	immunotherapy	protocol	population	duration	
		and top dose				
		tolerated post				
		immunotherapy				
Oppenheimer	Randomised	Subcutaneous.	Rush	11 subjects	29 days.	The study was discontinued after 3 active and 1 placebo subjects completed
et al, JACI	Controlled		followed by	with peanut		treatment. The 3 active subjects showed a 67-100% decrease in symptoms
1992.	Trial.	Top oral dose	maintenance.	allergy and		post immunotherapy.
		reached post		previous		
		immunotherapy:		systemic		Rate of systemic reactions: 13.3%.
		8g peanut.		reactions to		
				peanut.		
				Mean age: 25		
				years (14-43).		
Nelson et al,	Randomised	Subcutaneous.	Rush	12 adult	12	After 1 year of treatment, from the 6 active group subjects, 2/6 tolerated 8g
JACI 1997.	controlled		followed by	subjects with a	months.	peanut, 1/6 tolerated 4g peanut and 3/6 tolerated less than 2g peanut.
	trial.	Top oral dose	maintenance.	history of		
		reached post		immediate		Rate of systemic reactions: 23% (rush phase)
		immunotherapy:		hypersensitivity		39% (maintenance phase).
		8g peanut.		reactions to		
				peanut.		

				Age range:		
				Active group:		
				18-56 years.		
				Control group:		
				33-46 years.		
Clark et al,	Open,	Oral	Build-up	4 children with	Not	100% successfully desensitised to 2.38g peanut protein post-OIT (compared
Allergy 2009.	prospective.		followed by	severe peanut	stated.	with 5-50 mg peanut protein pre-OIT).
		Top dose: 2.38g	maintenance.	allergy.		
		peanut protein.				Rate of systemic reactions: 0
				Median age:		
				12.5 years (9-		
				13).		
Jones et al,	Open,	Oral	Rush, build-	39 children	36	Of 29 subjects who completed the protocol, 93% were successfully
JACI 2010.	prospective		up and	with peanut	months.	desensitised (tolerated 3.9g peanut protein), 7% failed. There was a 25%
		Top dose: 3.9g	maintenance.	allergy.		withdrawal rate.
		peanut protein.				
				Median		Rate of systemic reactions: 15%.
				age: 57.5		
				months (12-111		
				months).		
Blumchen et	Open,	Oral	Rush, build -	23 children	9	61% successfully desensitised to 0.5-2g peanut
al, JACI	prospective		up and	with peanut	months.	17% failed, 22% dropped out.
2010.			maintenance.	allergy.		

		Top dose: 4g		Median age:		Rate of systemic reactions: 0
		peanut.		5.6 years (3-		
				14).		
Varshney et	Randomised	Oral	Rush, build	28 children	12	84% of subjects who completed the study protocol were successfully
al, <i>JACI</i>	Controlled		up and	with peanut	months.	desensitised to 5g of peanut protein, 16% failed. There was a 32% drop-out
2011.	Trial.	Top dose: 5g	maintenance.	allergy (active		rate.
		peanut protein.		group: 19,		
				placebo group:		Rate of systemic reactions: 21%
				9).		
				Median age: 6		
				years (1-16).		
Anagnostou	Open,	Oral	Build-up	22 children	56	64 % tolerated the top dose (6.6g peanut protein), 22% tolerated a lower dose
et al, CEA	prospective.		followed by	with peanut	weeks	(800 mg peanut protein) and 9% failed.
2011.		Top dose: 6.6g	maintenance.	allergy.		
		peanut protein.				Rate of systemic reactions: 0
				Median age: 11		
				years (4-18).		
Anagnostou	Randomised	Oral	Build-up	99 children	26	62% of subjects in the active group that completed the OIT protocol tolerated
et al, The	Controlled		followed by	with peanut	weeks	the top dose of 1.4g peanut protein, 22% tolerated 800mg peanut protein,
Lancet 2014.	Crossover	Top dose: 1.4g	maintenance.	allergy of any		16% failed. There was a 10% drop-out rate.
	Trial.	peanut protein.		severity.		

				Median age:		Rate of systemic reactions: 1%
				12.4 years (7-		
				16).		
Kim et al,	Randomised	Sublingual.	Build up and	18 subjects	12	The active group ingested 20 tines more peanut protein than the placebo
JACI 2011.	Controlled		maintenance.	with peanut	months	group (1710g versus 85 mg) post immunotherapy.
	Trial.	Top dose: 1710		allergy (active		
		mg peanut		group: 11,		Rate of systemic reactions: 0
		protein.		placebo group:		
				7).		
				Median age: 5		
				years (1-11).		
Fleischer et	Randomised	Sublingual.	Build up and	40 subjects	68	70% in the active group reached the top dose of 496 mg peanut protein, 30%
al, JACI	Controlled		maintenance.	with peanut	weeks	failed.
2013.	Trial.	Top dose: 496		allergy.		
		mg peanut				Rate of systemic reactions: 0
		protein.		Median age: 15		
				years (12-37).		

Table: Key studies of peanut immunotherapy

Key studies on peanut immunotherapy are described including the study reference (authors, journal and date of publication), the study design, the route of immunotherapy used and the top dose tolerated orally after immunotherapy treatment, the study protocol (rush, build-up or maintenance), the relevant population (age range in brackets, shown in years), the duration of each study (in days, weeks or months) and the main results (success rate of desensitisation and rate of systemic reactions).