

# PEDIATRICS

# 2017

November 13-14, 2017  
London, UK

J Pediatr Care 2017, 3:4(Suppl)  
DOI: 10.21767/2471-805X-C1-003

## LONG TERM OUTCOMES FOLLOWING BAKED MILK-CONTAINING DIET FOR IGE-MEDIATED MILK ALLERGY

Ilan Dalal<sup>1,4</sup>, Jenny Weinbrand  
Goichberg<sup>1</sup>, Shira Benor<sup>2</sup>,  
Menahem Rottem<sup>3</sup>, Nitzan  
Shacham<sup>1</sup>, Avigdor Man-  
delberg<sup>4</sup>, Arie Levine<sup>4</sup>, Koby  
Sade<sup>2</sup> and Shmuel Kivity<sup>2</sup>

<sup>1</sup>Wolfson Medical Center, Israel

<sup>2</sup>Tel Aviv Sourasky Medical Center

<sup>3</sup>Haemek Medical Center, Israel

<sup>4</sup>Sackler faculty of medicine - Tel Aviv University, Israel

**Background:** There is limited knowledge regarding long term follow-up of milk allergic patients who tolerate baked milk (BM) products.

**Objective:** The objective of the study is to evaluate the long-term safety and efficacy of this intervention.

**Patients & Methods:** Children with IgE-mediated milk allergy underwent an oral challenge with BM. Those who tolerated BM underwent baked cheese pizza (BC) challenge after 6 months. Six months later, a challenge with unheated milk was offered to patients who tolerated BC.

**Results:** 85 children (median 5.2 years; range 15 months to 15

years) were prospectively followed for a median of 29 months (range 15-50 months). Fifteen (18%) reacted to the initial BM challenge. Reactions were mild in most cases and only 3 had anaphylaxis. Among 70 (82%) children who initially tolerated BM challenge, 26 (37%) tolerated unheated milk at last follow up, 16 (23%) tolerated BM/BC and 25 (36%) avoided all forms of milk despite successful initial BM/BC challenges. Another 3 patients (4%) were lost to follow-up. Predictive parameters of reactivity to initial BM challenge include age (median - 7; range 2.5-15 years vs. 3.5; range 1-14.5 years;  $P=0.02$ ), mild respiratory symptoms (67% vs. 26%,  $P<0.01$ ) as part of the reported allergic reaction to milk, asthma (53% vs. 14.3%,  $P<0.01$ ) and a larger SPT to casein (median 14; range 8-28 mm vs. 6; range 0-18 mm;  $P<0.01$ )

**Conclusions:** For most of our patients, ingestion of BM was found to be safe and well tolerated. However, initial successful challenge with BM/BC does not always guarantee ongoing consumption of these products. Better predictors of response are needed for patient selection and long-term outcomes.

ilandalal@hotmail.com  
Dalal@wmc.gov.il