Isolated *Macrobrachium rosenbergii* (*M. rosenbergii*) Allergy Apart From *Penaeus monodon* (*P. monodon*) Allergy in Shrimp Allergic Children

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**RATIONALE:** Reports on shrimp allergy has focused mainly on the family Penaeidae (seawater shrimp). Isolated *M. rosenbergii*, a freshwater shrimp has never been encountered. Our objective was to investigate whether the isolated *M. rosenbergii* allergy, apart from *P. monodon*, as a cause of allergy in shrimp allergic children.

**METHODS:** Skin prick test with extract of *M. rosenbergii* and *P. monodon* in patients with history of shrimp allergy were performed. Allergy to each species of shrimp was confirmed by open food challenges.

**RESULTS:** 12 subjects (age 5-15 years) have been enrolled. Positive skin tests to both *M. rosenbergii* and *P. monodon* were observed in 100% (12/12) of the subjects. However, with open challenges, 2 patients reacted to both species of shrimp, 4 patients reacted to *P. monodon* alone and 2 patients reacted to *M. rosenbergii* alone and 4 did not have any reaction to both species of shrimp.

**CONCLUSIONS:** This study reported subpopulations of shrimp allergic patients that are allergic to only freshwater shrimp, *M. rosenbergii*, but can tolerate seawater shrimps. In contrast, some patients are allergic to only seawater shrimp (*P. monodon*). Identification of unique allergens from *M. rosenbergii* need to be done in the future.

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