

ABSTRACT SUBMISSION FORM

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CHR D 2020: Abstract Submission Form

Submitter Name

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Title

Adult and pediatric food allergy to non-priority legumes in the clinical context: A scoping review

Background

Plant-based diets are popular, resulting in an increased demand for plant-based protein substitutes, including non-priority legumes (chickpea, pea, lentil, and lupine). These legumes have been identified as the cause of severe allergic reactions. However, there is limited knowledge about these allergens, and the impact they may have on the consumer and on the food industry.

Objective

The aim of this study was to summarize the available evidence on non-priority legume food allergy in the clinical context.

Methods

Eligible, original research articles reported on both non-priority legume food allergy and one or more of: prevalence, burden, food labelling information, or current education strategies. Articles were excluded if the publication type was a review, letter, editorial, case report not assessing burden, or abstract from a conference published before 2017. We searched 5 electronic databases. The gray literature was not searched due to time constraints. Screening and data extraction were performed by two independent reviewers.

Results

Of the 8,976 titles identified, 47 were included subsequent to full text-screening. The majority of studies identified focused on prevalence. Most studies were published in the last decade (63.8%; 30/47) and were conducted in Europe (68.1%; 32/47), with additional studies from Asia, and North America. Almost all of the studies looked at a wide panel of food allergies including priority allergens. Only a few (21.3%; 10/47) focused on one food allergy. Of the non-priority legume allergens studied, lentil was the most commonly analyzed (46.8%; 22/47), followed closely by pea (40.4%; 19/47). Very few studies (10.6%; 5/47) addressed the burden of non-priority legume food allergens. Moreover, no studies addressed labelling or

educational needs for these allergens.

Conclusion

In the future, this review will be used in combination with patient engagement to inform roundtable discussions with food manufacturers, health policymakers, and our national patient advocacy organization, Food Allergy Canada.

Theme:

Clinical

Do you have a table/figure to upload?

No

Are you willing to participate in Goodbear's Den?

Yes

Presenter Status:

Undergraduate Students

What was your role in the project?

Design

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