



Sayantani Sindher

- Clinical Associate Professor, Medicine
- Clinical Associate Professor, Pediatrics - Allergy and Clinical Immunology

CLINICAL OFFICES

- **Stanford Association for Food Allergy Research**

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Bio

CLINICAL FOCUS

- Allergy and Immunology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Medicine
- Clinical Associate Professor, Pediatrics - Allergy and Clinical Immunology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Board Certification: Pediatrics, American Board of Pediatrics (2020)
- Fellowship: Childrens Hospital of Philadelphia Allergy Fellowship (2016) PA
- Board Certification: Allergy and Immunology, American Board of Allergy and Immunology (2016)
- Residency: Childrens Hospital at Montefiore Pediatric Residency (2013) NY
- Medical Education: SUNY Downstate College of Medicine (2010) NY

Research & Scholarship

CLINICAL TRIALS

- Follow-up of the EPITOPE Study to Evaluate Long-term Efficacy and Safety of DBV712 in Young Children, Recruiting
- Peanut Oral Immunotherapy Study of Early Intervention for Desensitization, Recruiting
- Prescreening Protocol to Enroll in Food Allergy Clinical Studies at a Single Site, Recruiting
- Safety and Efficacy Study of Viaskin Peanut in Peanut-allergic Young Children 1-3 Years of Age, Recruiting
- Study to Determine the Efficacy and Safety of Dupilumab in Adult and Adolescent Patients With Eosinophilic Esophagitis (EoE), Recruiting
- Effect of Different Skin Creams on TEWL, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Allergy/Immunology (Fellowship Program)

Publications

PUBLICATIONS

- **Safety of Epicutaneous Immunotherapy in Peanut-Allergic Children: REALISE Randomized Clinical Trial Results.** *The journal of allergy and clinical immunology. In practice*
Pongracic, J. A., Gagnon, R., Sussman, G., Siri, D., Oriol, R. C., Brown-Whitehorn, T., Green, T. D., Campbell, D. E., Anvari, S., Berger, W. E., Bird, J. A., Chan, E. S., Cheema, et al
2021
- **Advances, Practical Implementation, and Unmet Needs Regarding Oral Immunotherapy for Food Allergy.** *The journal of allergy and clinical immunology. In practice*
Perrett, K. P., Sindher, S. B., Begin, P., Shanks, J., Elizur, A.
2021
- **Shrimp-Allergic Patients in a Multi-Food Oral Immunotherapy Trial.** *Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology*
Nguyen, D. I., Sindher, S. B., Chinthrajah, R. S., Nadeau, K., Davis, C. M.
2021
- **Assessment of Allergic and Anaphylactic Reactions to mRNA COVID-19 Vaccines With Confirmatory Testing in a US Regional Health System.** *JAMA network open*
Warren, C. M., Snow, T. T., Lee, A. S., Shah, M. M., Heider, A., Blomkalns, A., Betts, B., Buzzanco, A. S., Gonzalez, J., Chinthrajah, R. S., Do, E., Chang, I., Dunham, et al
2021; 4 (9): e2125524
- **Early intervention and prevention of allergic diseases.** *Allergy*
Brough, H. A., Lanser, B. J., Sindher, S. B., Teng, J. M., Leung, D. Y., Venter, C., Chan, S. M., Santos, A. F., Bahnson, H., Guttman-Yassky, E., Gupta, R. S., Lack, G., Ciaccio, et al
2021
- **Asthma phenotypes, associated comorbidities, and long-term symptoms in COVID-19.** *Allergy*
Eggert, L. E., He, Z., Collins, W., Lee, A. S., Dhondalay, G., Jiang, S. Y., Fitzpatrick, J., Snow, T. T., Pinsky, B. A., Artandi, M., Barman, L., Puri, R., Wittman, et al
2021
- **Improvement in health-related quality of life in food-allergic patients: a meta-analysis.** *The journal of allergy and clinical immunology. In practice*
Cao, S., Borro, M., Alonzi, S., Sindher, S., Nadeau, K., Chinthrajah, R. S.
2021
- **Basophil activation tests identify a peanut OIT subgroup with improved safety and outcomes**
Chinthrajah, S., Cao, S., Tsai, M., Mukai, K., Tibshirani, R., Sindher, S., Nadeau, K., Galli, S.
MOSBY-ELSEVIER.2021: AB166
- **A positive perception of treatment and continued adherence to dosing in a long-term follow-up study in food allergic participants undergoing multi-food oral immunotherapy**
Sindher, S., Kumar, D., Fitzpatrick, J., Cao, S., Long, A., Woch, M., Conn, T., Nadeau, K., Chinthrajah, S.
MOSBY-ELSEVIER.2021: AB110
- **Asthma as a predictor of more severe outcomes in COVID-19 infection**
Eggert, L., Cao, S., He, Z., Dhondalay, G., Jiang, S., Collins, W., Sindher, S., Nadeau, K., Sharon Chinthrajah, R.
MOSBY-ELSEVIER.2021: AB44
- **Outcome of Double-Blind Placebo-Controlled Food Challenges in Shrimp-Sensitized Participants**
Jiang, S., Kumar, D., Cao, S., Fitzpatrick, J., Long, A., Woch, M., Johansson, J., Nadeau, K., Chinthrajah, S., Sindher, S.

MOSBY-ELSEVIER.2021: AB88

- **Bayesian Hierarchical Evaluation of Dose-Response for Peanut Allergy in Clinical Trial Screening.** *Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association*
Haber, L. T., Reichard, J. F., Henning, A. K., Dawson, P. n., Chinthrajah, R. S., Sindher, S. B., Long, A. n., Vincent, M. J., Nadeau, K. C., Allen, B. C.
2021: 112125
- **Systems vaccinology of the BNT162b2 mRNA vaccine in humans.** *Nature*
Arunachalam, P. S., Scott, M. K., Hagan, T., Li, C., Feng, Y., Wimmers, F., Grigoryan, L., Trisal, M., Edara, V. V., Lai, L., Chang, S. E., Feng, A., Dhingra, et al
2021
- **Asthma phenotypes, associated comorbidities, and long-term symptoms in COVID-19** *European Journal of Allergy and Clinical Immunology*
Eggert, L. E., He, Z., Collins, W., Lee, A. S., Nadeau, K., Chinthrajah, R.
2021
- **Identification of Pru du 6 as a potential marker allergen for almond allergy.** *Allergy*
Kabasser, S., Hafner, C., Chinthrajah, S., Sindher, S. B., Kumar, D., Kost, L. E., Long, A. J., Nadeau, K. C., Breiteneder, H., Bublin, M.
2020
- **Increases in plasma IgG4/IgE with trilipid vs paraffin/petrolatum-based emollients for dry skin/eczema.** *Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology*
Sindher, S., Alkotob, S. S., Shojinaga, M. N., Hamilton, R., Chan, S., Cao, S., Bahnson, H. T., Brough, H. A., Lack, G., Leung, D. Y., Nadeau, K. C.
2020
- **Pilot study measuring transepidermal water loss (TEWL) in children suggests trilipid cream is more effective than a paraffin-based emollient.** *Allergy*
Sindher, S., Alkotob, S. S., Shojinaga, M. N., Brough, H. A., Bahnson, T., S. C., Lack, G., Leung, D. Y., Nadeau, K. C.
2020
- **Dose-related Allergic Reactions Decrease Over Time During Peanut Oral Immunotherapy in a Large, Randomized, Double-blind, Placebo-controlled, Phase 2 Study**
Long, A., Purington, N., Andorf, S., O'Laughlin, K., Lyu, S., Sindher, S., Manohar, M., Boyd, S., Tibshirani, R., Maecker, H., Mukai, K., Tsai, M., Desai, et al
MOSBY-ELSEVIER.2020: AB134
- **A Phase 2 Study of Multi Oral Immunotherapy in Multi Food Allergic Patients to Test Immune Markers after Minimum Maintenance Dose using Xolair**
Sindher, S., Kumar, D., Purington, N., Tupa, D., Long, A., Cao, S., Woch, M., Tan, T., Lloret, M., Chinthrajah, S., Nadeau, K.
MOSBY-ELSEVIER.2020: AB135
- **Quality Of Life in Patients with Food Allergy: A Systematic Review and Meta-Analysis of interventions Food Allergy Diagnosis and Immunotherapy Studies**
Cao, S., Borro, M., Sindher, S., Tupa, D., Long, A., Chinthrajah, S., Nadeau, K., Alonzi, S.
MOSBY-ELSEVIER.2020: AB245
- **The benefits of playing interactive games on virtual reality headsets during procedures in food allergy clinical trials**
Alonzi, S., Parikh, K., Varadharajulu, S., Chandra, S., Cao, S., Texeira, Z., Sindher, S., Nadeau, K., Chinthrajah, S.
MOSBY-ELSEVIER.2020: AB147
- **Skin TEWL results show significant improvements with Trilipid emollient compared to controls in infants and young children**
Nadeau, K., Sindher, S., Berdyshev, E., Shojinaga, M., Alkotob, S., Alonzi, S., Varadharajulu, S., Chandra, S., Chinthrajah, S., Brough, H., Chan, S., Lack, G., Leung, et al
MOSBY-ELSEVIER.2020: AB240
- **Perceived Burden of Treatment and Quality of Life in Long-Term Follow Up after Oral Immunotherapy in Food Allergic Patients**
Collins, W., Raeber, O., Tupa, D., Cao, S., Nadeau, K., Sindher, S., Chinthrajah, S.
MOSBY-ELSEVIER.2020: AB147
- **Protein Composition Changes in Manufactured Penaeus aztecus Shrimp Powder**
Chinthrajah, S., Johansson, J., Woch, M., Conn, T., Chen, E., Long, A., Lyu, S., Kumar, D., Sindher, S., Nadeau, K.
MOSBY-ELSEVIER.2020: AB226
- **Oral immunotherapy for peanut allergy: The pro argument.** *The World Allergy Organization journal*
Chinthrajah, R. S., Cao, S. n., Dunham, T. n., Sampath, V. n., Chandra, S. n., Chen, M. n., Sindher, S. n., Nadeau, K. n.

2020; 13 (8): 100455

- **Epicutaneous sensitization in the development of food allergy: What is the evidence and how can this be prevented?** *Allergy*
Brough, H. A., Nadeau, K. C., Sindher, S. B., Alkotob, S. S., Chan, S. n., Bahnson, H. n., Leung, D. Y., Lack, G. n.
2020
- **Gastrointestinal Eosinophil Responses in a Longitudinal, Randomized Trial of Peanut Oral Immunotherapy.** *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*
Wright, B. L., Fernandez-Becker, N. Q., Kambham, N. n., Purington, N. n., Cao, S. n., Tupa, D. n., Zhang, W. n., Sindher, S. B., Rank, M. A., Kita, H. n., Katzka, D. A., Shim, K. P., Bunning, et al
2020
- **Consensus on Definition of Food Allergy SEverity (DEFASE): Protocol for a systematic review.** *The World Allergy Organization journal*
Arasi, S. n., Nurmatov, U. n., Turner, P. J., Ansotegui, I. J., Daher, S. n., Dunn-Galvin, A. n., Ebisawa, M. n., Eigenmann, P. n., Fernandez-Rivas, M. n., Gupta, R. n., Nowak-Wegrzyn, A. n., Petrou, S. n., Roberts, et al
2020; 13 (12): 100493
- **Corrigendum: Analysis of a Large Standardized Food Challenge Data Set to Determine Predictors of Positive Outcome Across Multiple Allergens.** *Frontiers in immunology*
Sindher, S. n., Long, A. J., Purington, N. n., Chollet, M. n., Slatkin, S. n., Andorf, S. n., Tupa, D. n., Kumar, D. n., Woch, M. A., O'Laughlin, K. L., Assaad, A. n., Pongracic, J. n., Spergel, et al
2020; 11: 625796
- **Phase 2a randomized, placebo-controlled study of anti-IL-33 in peanut allergy.** *JCI insight*
Chinthrajah, S., Cao, S., Liu, C., Lyu, S., Sindher, S. B., Long, A., Sampath, V., Petroni, D., Londei, M., Nadeau, K. C.
2019; 4 (22)
- **Conflicting verdicts on peanut OIT from the ICER and FDA Advisory Committee; where do we go from here?** *The Journal of allergy and clinical immunology*
Eiwegger, T., Anagnostou, K., Arasi, S., Begin, P., Ben-Shoshan, M., Beyer, K., Blumchen, K., Brough, H., Caubet, J., Chan, E. S., Chen, M., Chinthrajah, S., Davis, et al
2019
- **Alternative dosing of omalizumab as an adjunct therapy during multiallergen oral immunotherapy in food allergic patients**
Sindher, S. B., Long, A. J., Purington, N., Kumar, D., Scheiber, A., O'Laughlin, K., Woch, M., Tan, T., Chinthrajah, R., Zedek, S., Lloret, M., Nadeau, K. C.
MOSBY-ELSEVIER.2019: AB245
- **Association Between History of Epinephrine Use and Dose-Related Adverse Event Rates During Oral Immunotherapy**
Scheiber, A., Chinthrajah, R., Long, A. J., Kumar, D., Skura, S., Shojinaga, M., Min, H., Alvarez, A., Lloret, M., Nadeau, K. C., Sindher, S. B.
MOSBY-ELSEVIER.2019: AB247
- **Can food allergy be cured? What are the future prospects?** *Allergy*
Sampath, V. n., Sindher, S. B., Alvarez Pinzon, A. M., Nadeau, K. C.
2019
- **ICER report for peanut OIT comes up short.** *Annals of allergy, asthma & immunology : official publication of the American College of Allergy, Asthma, & Immunology*
Eiwegger, T. n., Anagnostou, K. n., Arasi, S. n., Bégin, P. n., Ben-Shoshan, M. n., Beyer, K. n., Blumchen, K. n., Brough, H. n., Caubet, J. C., Chan, E. S., Chinthrajah, S. n., Davis, C. M., Roches, et al
2019
- **Analysis of a Large Standardized Food Challenge Data Set to Determine Predictors of Positive Outcome Across Multiple Allergens** *FRONTIERS IN IMMUNOLOGY*
Sindher, S., Long, A. J., Purington, N., Chollet, M., Slatkin, S., Andorf, S., Tupa, D., Kumar, D., Woch, M. A., O'Laughlin, K. L., Assaad, A., Pongracic, J., Spergel, et al
2018; 9
- **The Use of Biomarkers to Predict Aero-Allergen and Food Immunotherapy Responses** *CLINICAL REVIEWS IN ALLERGY & IMMUNOLOGY*
Sindher, S. B., Long, A., Acharya, S., Sampath, V., Nadeau, K. C.
2018; 55 (2): 190–204

- **Eliciting Dose and Safety Outcomes From a Large Dataset of Standardized Multiple Food Challenges** *FRONTIERS IN IMMUNOLOGY*
Purington, N., Chinthrajah, R., Long, A., Sindher, S., Andorf, S., O'Laughlin, K., Woch, M. A., Scheiber, A., Assa'ad, A., Pongracic, J., Spergel, J. M., Tam, J., Tilles, et al
2018; 9
- **Comparison of sublingual immunotherapy and oral immunotherapy in peanut allergy** *ALLERGO JOURNAL*
Zhang, W., Sindher, S. B., Sampath, V., Nadeau, K.
2018; 27 (6): 22–30
- **Efficacy and safety of omalizumab in pediatric patients with high immunoglobulin E levels: A case series** *ALLERGY AND ASTHMA PROCEEDINGS*
Wang, K. Y., Sindher, S. B., Stinson, R., DaVeiga, S.
2018; 39 (4): 289–91
- **New treatment directions in food allergy** *ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY*
Sampath, V., Sindher, S. B., Zhang, W., Nadeau, K. C.
2018; 120 (3): 254–62
- **The Use of Biomarkers to Predict Aero-Allergen and Food Immunotherapy Responses.** *Clinical reviews in allergy & immunology*
Sindher, S. B., Long, A., Acharya, S., Sampath, V., Nadeau, K. C.
2018
- **Efficacy and safety of omalizumab in pediatric patients with high immunoglobulin E levels: A case series.** *Allergy and asthma proceedings*
Wang, K. Y., Sindher, S. B., Stinson, R. n., DaVeiga, S. P.
2018; 39 (4): 289–91
- **Analysis of a Large Standardized Food Challenge Data Set to Determine Predictors of Positive Outcome Across Multiple Allergens.** *Frontiers in immunology*
Sindher, S. n., Long, A. J., Purington, N. n., Chollet, M. n., Slatkin, S. n., Andorf, S. n., Tupa, D. n., Kumar, D. n., Woch, M. A., O'Laughlin, K. L., Assaad, A. n., Pongracic, J. n., Spergel, et al
2018; 9: 2689
- **Eliciting Dose and Safety Outcomes From a Large Dataset of Standardized Multiple Food Challenges.** *Frontiers in immunology*
Purington, N. n., Chinthrajah, R. S., Long, A. n., Sindher, S. n., Andorf, S. n., O'Laughlin, K. n., Woch, M. A., Scheiber, A. n., Assa'ad, A. n., Pongracic, J. n., Spergel, J. M., Tam, J. n., Tilles, et al
2018; 9: 2057
- **Comparison of sublingual immunotherapy and oral immunotherapy in peanut allergy.** *Allergo journal international*
Zhang, W. n., Sindher, S. B., Sampath, V. n., Nadeau, K. n.
2018; 27 (6): 153–61