



# April 2024 Grand Rounds – Weighing the Burden of Trauma: Unraveling How Childhood Adversities Amplify the Risk of Obesity

Credit for this course may not exceed 1 credit when both the live and enduring material activity format credits are combined.

## Live Course Accreditation and Credit for Physicians

The Obesity Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Obesity Society designates this live activity for a maximum of 1 *AMA PRA Category 1 Credit™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

*ACCME Activity ID 202573201*

## On-Demand Course Accreditation and Credit for Physicians

The Obesity Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Obesity Society designates this enduring material for a maximum of 1 *AMA PRA Category 1 Credit™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

*ACCME Activity ID 202573203*

# Important Dates for On-Demand Course (Enduring Material)

Date of Release: May 1, 2024

Date of Termination: December 31, 2026

## Learning Objectives

1. After participating in the webinar, learners will be able to describe evidence-based science regarding environmental, microbiota, neuroendocrine, and neurobiological mechanisms influencing obesogenic behaviors in stressful conditions.
2. After participating in the webinar, learners will be able to identify new therapeutic targets that may influence stress-induced obesogenic behaviors.
3. After this webinar, learners will be able to formulate and execute preventive and therapeutic strategies aimed at decreasing obesity among individuals at risk.

## Commercial Support

No commercial support was received for this activity.

## Faculty and Planning Committee Disclosure Information

The Obesity Society adheres to the ACCME's Standards for Integrity and Independence in Accredited Continuing Education. Any individuals in a position to control the content of a CE activity - including faculty, planners, reviewers or others - are required to disclose all financial relationships with ineligible entities<sup>1</sup> (commercial interests). All relevant financial relationships have been mitigated prior to the commencement of the activity.

The Obesity Society asks all individuals involved in the development and presentation of Continuing Medical Education (CME) activities to disclose all financial relationships with ineligible companies. This information is disclosed to CME activity participants. The Obesity Society has procedures to mitigate financial relationships. In addition, faculty members are asked to disclose when any unapproved use of pharmaceuticals or devices is being discussed. TOS requires additional disclosures beyond the ACCME definition of an ineligible company. These include all non-medical food and weight loss industry disclosures (indicated by an asterisk\*). In the list below, the nature of the relationship and company are followed by the industry of that company.

### Chairs:

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<sup>1</sup> An ineligible company as defined by the ACCME is one that is not eligible for ACCME accreditation, in other words those whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. Examples of such organizations include: 1) Advertising, marketing, or communication firms whose clients are ineligible companies, 2) Bio-medical startups that have begun a governmental regulatory approval process, 3) Compounding pharmacies that manufacture proprietary compound, 4) Device manufacturers or distributors, 5) Diagnostic labs that sell proprietary products, 6) Growers, distributors, manufacturers or sellers of medical foods and dietary supplements, 7) Manufacturers of health-related wearable products, 8) Pharmaceutical companies or distributors, 9) Pharmacy benefit managers, 10) Reagent manufacturers or sellers. Reference: <https://accme.org/faq/what-accmes-definition-ineligible-company>

At TOS activities, course/session chairs are responsible for timekeeping, introductions, housekeeping announcements, and presenting audience questions to speakers. TOS has determined that chairs do not have the ability to influence content. Accordingly, TOS does not collect, mitigate, or disclose relevant financial relationships of chairs (unless they have a dual role as a planner or speaker). In the case of this webinar, the chair was also the planner, so disclosures have been included in this document.

### Panelists:

Panelists are speakers who speak without presenting slides in a portion of a session or course. As speakers, they are required to disclose, and their relevant financial relationships are listed below. All speakers - with or without relevant financial relationships, with or without slides - are advised, and subsequently attest that “The content and/or presentation of the information with which I am involved will promote quality or improvements in health care and will not promote a specific proprietary business interest or a commercial interest (including ACCME-defined ineligible companies). Content for this activity, including any presentation of therapeutic options, will be balanced, evidence-based and commercially unbiased.”

### Speaker Disclosures:

Johnny Figueroa, PhD	No Relevant Financial Relationships
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### Planner Disclosures:

Monica Agarwal, MD	No Relevant Financial Relationships
Johnny Figueroa, PhD	No Relevant Financial Relationships
Leslie Golden, MD, MPH	No Relevant Financial Relationships
Valentina Ivezaj, PhD	No Relevant Financial Relationships
Aaron Kelly, PhD	No Relevant Financial Relationships
Robert Kushner, MD	Advisor Relationship with Novo Nordisk (Pharmaceuticals), WW (Medical Food and Weight Management*), and Eli Lilly (Pharmaceuticals) Consultant relationship with Altimmune (Pharmaceuticals), Pfizer Inc. (Pharmaceuticals), and Boehringer Ingelheim (Pharmaceuticals)
Magdalena Pasarica, MD, PhD	No Relevant Financial Relationships
Jonathan Purnell, MD	Consultation Relationship with Novo Nordisk (Pharmaceuticals), Boehringer Ingelheim (Pharmaceuticals), and Luciole (Pharmaceuticals)
Amanda Velazquez, MD	Advisor relationship with WW (Medical Food and Weight Management*) and Intellihealth (Weight Management*) Consultation Relationship with Novo Nordisk (Pharmaceuticals)
Denise Wilfley, PhD	No Relevant Financial Relationships

**Reviewer Disclosures:** No members of the TOS CME Oversight Committee, charged with the resolution of all relevant conflicts of interest, had any relevant financial relationships while serving on the committee.

# Bibliography

1. Sharafeddin F, Ghaly M, Simon TB, Ontiveros-Ángel P, Figueroa JD. Prefrontal cortical protease TACE/ADAM17 is involved in neuroinflammation and stress-related eating alterations. bioRxiv [Preprint]. 2023 Jan 24:2023.01.23.525269. doi: 10.1101/2023.01.23.525269.
2. Vega-Torres JD, Azadian M, Rios-Orsini RA, et al. Adolescent Vulnerability to Heightened Emotional Reactivity and Anxiety After Brief Exposure to an Obesogenic Diet. Front Neurosci. 2020 Jun 30;14:562. doi: 10.3389/fnins.2020.00562.
3. Vega-Torres JD, Ontiveros-Angel P, Terrones E, et al. Short-term exposure to an obesogenic diet during adolescence elicits anxiety-related behavior and neuroinflammation: modulatory effects of exogenous neuregulin-1. Transl Psychiatry. 2022 Feb 26;12(1):83. doi: 10.1038/s41398-022-01788-2.
4. Vega-Torres JD, Haddad E, Lee JB, et al. Exposure to an obesogenic diet during adolescence leads to abnormal maturation of neural and behavioral substrates underpinning fear and anxiety. Brain Behav Immun. 2018 May;70:96-117. doi: 10.1016/j.bbi.2018.01.011.

## Disclaimer

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*This document was last updated April 11, 2024*