

# Ultra-processed foods: The research and the reality



# **FOLLOW-UP HANDOUT**

# Nova food classification system

Group	Definition	
GROUP 1: Unprocessed or minimally processed foods	Foods from nature with inedible parts removed	
GROUP 2: Processed culinary ingredients	Foods from group 1 in a different form	
GROUP 3: Processed foods	Foods from group 1 or 2 made by adding salt, sugar, oil or fat, or using preservation methods such as canning and bottling	
GROUP 4: Ultra-processed foods	Industrially manufactured food products made up of several ingredients (formulations) and food substances of no or rare culinary use (industrial use ingredients)	

Definitions adapted from: Martinez-Steele, E.; Khandpur, N.; Batis, C.; Bes-Rastrollo, M.; Bonaccio, M.; Cediel, G.; Huybrechts, I.; Juul, F.; Levy, R.B.; da Costa Louzada, M.L., et al. Best practices for applying the Nova food classification system. Nature Food 2023, 4, 445-448, doi:10.1038/s43016-023-00779-w.

# 2025–2030 DGA Scientific Advisory Committee conclusions on ultra-processed foods from systematic reviews

Life stage	Conclusion statement	Strength of evidence
Children and adolescents	Dietary patterns with higher amounts of UPF are associated with greater adiposity and risk of obesity/overweight	Limited
Adults and older adults (19+)	Dietary patterns with higher amounts of UPF are associated with greater adiposity and risk of obesity/overweight	Limited
Infants and young children (up to 24 months)	A conclusion statement cannot be drawn because of concerns about consistency and directness in body of evidence	Grade not assignable
Individuals during pregnancy and post-partum	A conclusion statement cannot be drawn because there is not enough evidence available	Grade not assignable

Adapted from: 2025 Dietary Guidelines Advisory Committee. Scientific Report of the 2025 Dietary Guidelines Advisory Committee: Advisory Report to the Secretary of Health and Human Services and Secretary of Agriculture; 2024.



#### **Additional references and resources:**

- 1. Hall, K.D.; Ayuketah, A.; Brychta, R.; Cai, H.; Cassimatis, T.; Chen, K.Y.; Chung, S.T.; Costa, E.; Courville, A.; Darcey, V., et al. Ultra–Processed Diets Cause Excess Calorie Intake and Weight Gain: An Inpatient Randomized Controlled Trial of Ad Libitum Food Intake. Cell Metab 2019, 30, 67–77.e63, doi:10.1016/j.cmet.2019.05.008.
- 2. Hess, J.M.; Comeau, M.E.; Casperson, S.; Slavin, J.L.; Johnson, G.H.; Messina, M.; Raatz, S.; Scheett, A.J.; Bodensteiner, A.; Palmer, D.G. Dietary guidelines meet NOVA: developing a menu for a healthy dietary pattern using ultra-processed foods. The Journal of Nutrition **2023**, https://doi.org/10.1016/j.tjnut.2023.06.028, doi.
- 3. Hess, J.M.; Comeau, M.E.; Scheett, A.J.; Bodensteiner, A.; Levine, A.S. Using Less Processed Food to Mimic a Standard American Diet Does Not Improve Nutrient Value and May Result in a Shorter Shelf Life at a Higher Financial Cost. Current Developments in Nutrition 2024, 8, 104471, doi: <a href="https://doi.org/10.1016/j.cdnut.2024.104471">https://doi.org/10.1016/j.cdnut.2024.104471</a>.
- 4. Martinez-Steele, E.; Khandpur, N.; Batis, C.; Bes-Rastrollo, M.; Bonaccio, M.; Cediel, G.; Huybrechts, I.; Juul, F.; Levy, R.B.; da Costa Louzada, M.L., et al. Best practices for applying the Nova food classification system. Nature Food **2023**, 4, 445–448, doi:10.1038/s43016-023-00779-w.
- 5. Nguyen H, Jones A, Barrett EM, et al. Extent of alignment between the Australian Dietary Guidelines and the NOVA classification system across the Australian packaged food supply. Nutrition & Dietetics. 2025; 82(1): 42–52. doi:10.1111/1747-0080.12880
- 6. Hamano, S.; Sawada, M.; Aihara, M.; Sakurai, Y.; Sekine, R.; Usami, S.; Kubota, N.; Yamauchi, T. Ultra-processed foods cause weight gain and increased energy intake associated with reduced chewing frequency: a randomized, open-label, crossover study. Diabetes, Obesity and Metabolism **2024**.
- 7. 2025 Dietary Guidelines Advisory Committee. Scientific Report of the 2025 Dietary Guidelines Advisory Committee: Advisory Report to the Secretary of Health and Human Services and Secretary of Agriculture; **2024**.
- 8. USDA/HHS;. Dietary Guidelines for Americans, 2020-2025; 2020.