

## **Learning Objectives**

After completing this continuing education course, nutrition professionals should be better able to:

- **01** List and compare the daily recommendation for added sugars on an FDA approved food label, by the American Heart Association, and the World Health Organization.
- **02** Differentiate three categories of sweeteners based on caloric content.
- **03** Describe three culinary properties of sugar that are not present in non-caloric sweeteners.
- **04** Evaluate the pros and cons of using or recommending caloric, low caloric, and non-caloric sweeteners in your practice or business.

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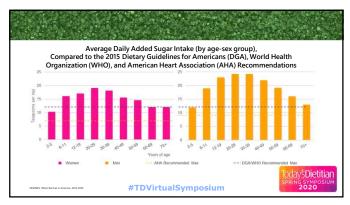




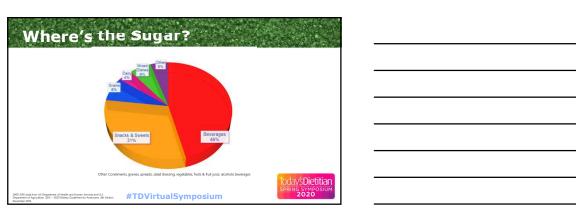




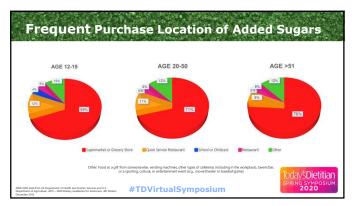




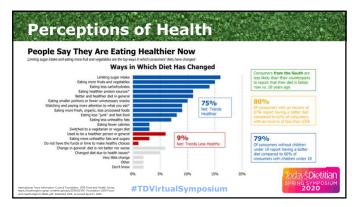


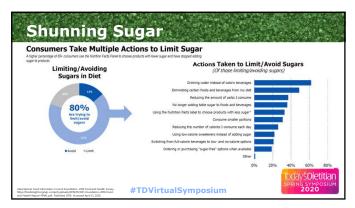


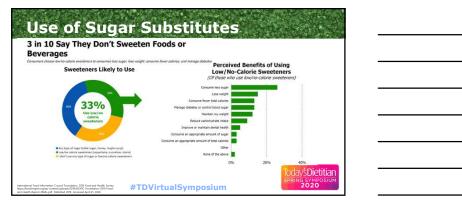






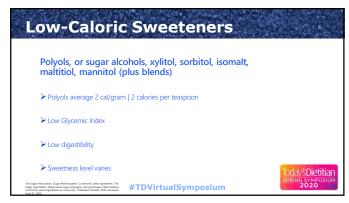


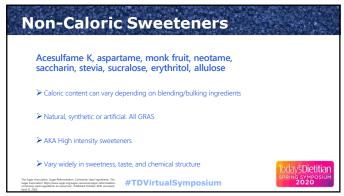












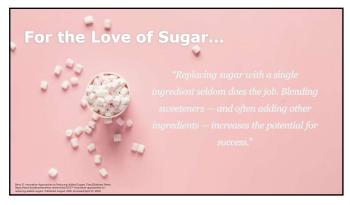


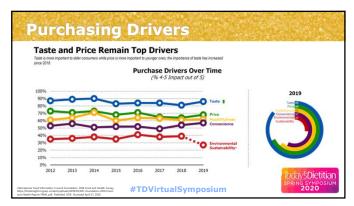




Sugar:		
Sweetens	+ Cracks	Caramelizes
+ Can Balance Bitter & Sour Flavors	Adds Bulk	Adds & Retains Moisture
<ul> <li>Adds Color</li> </ul>	Creams	+ Melts
Browns	<ul> <li>Preserves</li> </ul>	+ Ferments
<ul> <li>Adds Texture/Mouthfeel</li> </ul>	<ul> <li>Aerates</li> </ul>	Lowers Freezing Point
<ul> <li>Adds Flavor</li> </ul>		
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## Tips for Successfully Reducing Sugar

- Keep suger's functions in mind!
- + Simply use less added sugar.
- Add dried fruit for sweetness; nuts, unsweetened coconut, and/or dark chocolate for interest.
- + Add or increase spices such as cinnamon, nutmeg, and ginger.
- + Add or increase extracts like vanilla, almond, lemon, orange, and coconut.
- Punch up flevor with citrus zests.
- + Incorporate mashed bananas, applesauce, or pureed berries, prunes, and dates
- + Add lower sugar jam to muffins; create a glaze for baked goods and fruit.
- + Elevate sweetness with nutrient-rich, sweet vegetables, including beets, sweet potatoes, and squash.
- + Add comstarch to sauces to increase viscosity and add mouthfeel

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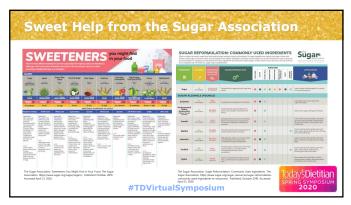
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## **Extra Tips for Low- & Non-Caloric Sweeteners**

- Keep sugar's functions in mindl
- Products vary greatly in taste and performance. Tasting and testing is required.
- + <u>www.whatsugar.com</u> has a complete listing of sweetener products available.
- Unless sweetening is the ONLY function needed, some type of sugar is usually required.
- For muffins and cakes, extra leavening is needed for proper rise
- + To ensure cookies flatten, flatten them before baking with the bottom of a glass.
- + Brown sugar and molasses are helpful in adding color.
- + Scale down pan sizes when baking to adjust for less batter.
- Low-sugar baked goods will cook more quiddy. Check cakes 7-10 minutes sooner than usual, muffins and quick breads up to 5 minutes, and cookies 3-5 minutes. Less sugar = less time.

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## The Bottom Line... Define your why. There are more options than ever to reduce added sugars. There are more options than ever to reduce added sugars. There are more options than ever to reduce added sugars. There are pros and cons to all sweetener choices. There is no one-size-fits-all. Products need to be vetted with both tusting and testing scross multiple uses. Understanding sugar's function(s) in a recipe is key for reformulations. Delicious sweet results can be had with less sugar!





