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News Release

FOR IMMEDIATE RELEASE
May 15, 2020

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Grapes, Health, and a Healthy Immune System

Fresno, CA – The COVID-19 pandemic has caused a refocus on building and maintaining a healthy immune system. Information on the way in which fresh grapes contribute to both is now available in one place for easy reference.

The health info-sheet combines results of health research on the benefit grapes provide to brain¹, heart², and colon health³ with data from two professors at Tufts Friedman School of Nutrition Science and Policy showing how healthy diets that include grapes can help flatten the COVID-19 curve⁴. In addition, two recent magazine articles summarize a number of ways grape consumption positively impacts health.

The first magazine article, from *Good Housekeeping* titled, “10 Health Benefits of Grapes That’ll Make You Want to Eat the Whole Bunch,” highlights how grapes help regulate blood pressure, lower the risk of diabetes, and can help with weight loss or management⁵.

The second article, “Feast Upon the 100 Best Foods for Men,” from *Men’s Health*, highlights the antioxidant power of grapes to help fight disease⁶.

In fact, grapes have over 1,600 phytonutrients that may also help maintain health in a variety of ways from promoting antioxidant activity to enhancing cell-to-cell communications which help maintain the health of cells⁷.

The health info-sheet comes as the 2020-21 California table grape season gets underway in the next few days and runs into January. The health info-sheet is included with this release.

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¹ <https://www.grapesfromcalifornia.com/grapes-health/health-research/emerging-research/#brain-health>

² <https://www.grapesfromcalifornia.com/grapes-health/health-research/heart-health-research/>

³ <https://www.grapesfromcalifornia.com/grapes-health/health-research/emerging-research/#colon-and-gastrointestinal-health>

⁴ <https://www.cnn.com/2020/03/27/opinions/healthy-diet-immune-system-covid-19-mozaffarian-glickman-nikbin-meydani/index.html>

⁵ <https://www.goodhousekeeping.com/health/diet-nutrition/a47266/health-benefits-of-grapes/>

⁶ <https://www.menshealth.com/nutrition/g32010287/best-foods-for-men-2020/?slide=83>

⁷ <https://www.grapesfromcalifornia.com/grapes-health/phytonutrients/>

California Grapes Support Immune Function and Overall Health

Supporting immune function through a healthy diet has become a focus for government officials, registered dietitians and the medical community during the COVID-19 pandemic. One key dietary recommendation is to eat more fruits and vegetables each day to improve immune function and prevent heart disease and diabetes. “How Your Diet Can Help Flatten the Curve” by two professors from the Tufts University Friedman School of Nutrition Science and Policy and a former Secretary of Agriculture provides important facts on how a healthy diet contributes to improved health overall.¹ Excerpts include:

- Higher intakes of specific nutrients appear to boost the immune system, while low intakes lead to less effective immune responses and higher susceptibility to infection.
- Beyond the measures taken to fight the virus in the short term, long-term impacts must be reduced. Preventing and lessening the severity of existing cardiovascular disease and diabetes should be a key tactic. Among different risks and preventive approaches for these diseases, nutrition tops the list.
- A recent multi-investigator study estimated that about 45 percent of all cardiovascular disease and diabetes deaths are directly attributable to poor diet. Another recent study estimated that poor diet kills about 530,000 Americans annually; equating to nearly 1,500 deaths every day.

Studies have found grapes to be both heart healthy and linked to benefits in multiple areas of health, including support for immune function. Some specifics:

1. Fresh, whole grapes contain over 1,600 natural plant compounds including antioxidants and other polyphenols, both of which have been shown to protect the health and function of cells which help protect against diseases.
2. Grapes are a natural source of the polyphenol stilbenoid called resveratrol. Studies have shown resveratrol positively influences immune function.
3. Grapes are heart healthy. Nutritional studies have shown that adding grapes to your diet every day supports a healthy heart and may reduce certain risk factors for heart disease.²
4. Grapes are hydrating, containing about 82 percent water. Hydration is critical to optimizing immune response.
5. Grapes are a low glycemic index fruit and can fit into balanced diabetic diets. A recent study found that eating grapes was associated with a lower risk of type 2 diabetes, unrelated to their low glycemic index.³
6. Grapes may help support a healthy brain. In a preliminary study conducted at UCLA, researchers found that consuming a little over 2 cups of grapes every day preserved healthy metabolic activity in regions of the brain associated with early-stage Alzheimer’s disease.⁴
7. Grapes may help protect against certain cancers, such as colon cancer. Researchers found that consuming about 2½ cups of grapes every day for two weeks showed a significant reduction in the expression of certain target genes responsible for promoting tumor growth in the colon.⁵

¹ <https://www.cnn.com/2020/03/27/opinions/healthy-diet-immune-system-covid-19-mozaffarian-glickman-nikbin-meydani/index.html>

² Fernandez, M.L., Barona, J. (2016). Grapes and atherosclerosis. In J.M. Pezzuto (Ed.) Grapes and Health (pp. 53- 76). Springer. DOI 10.1007/978-3-319-28995-3_3

³ Muraki, I., Imamura, F., Manson, J.E., Hu, F.B., Willett, W.C., van Dam, R.M., Sun, Q. (2013). Fruit consumption and risk of type 2 diabetes: results from 3 prospective longitudinal cohort studies. *BMJ* 2013; 347:f5001 doi: 10.1136/bmj.f5001.

⁴ Lee, J.K., Torosyan, N., Silverman, D.H. (2017). Examining the impact of grape consumption on brain metabolism and cognitive function in patients with mild decline in cognition: A double-blinded placebo-controlled pilot study. *Experimental Gerontology*, 87 (Pt A), 121-128. <https://doi.org/10.1016/j.exger.2016.10.004>.

⁵ Nguyen, A.V., Marinez, M., Stamos, M.J., Moyer, M.P., Planutis, K., Hope, C., Holcombe, R.F. (2009). Results of a phase I clinical trial examining the effect of plant-derived resveratrol and grape powder on Wnt pathway target gene expression in colonic mucosa and colon cancer. *J. Cancer Mgt and Research*, 1, 25-37.