

FOOD INSIGHT: MANAGING THE RISKS OF EATING

Scared by the latest news about food and nutrition? Get perspective!



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Healthy living requires understanding food risks and maintaining good eating and physical activity habits. This often becomes challenging, particularly during busy times and holidays. For many people, Halloween kicks off an intense holiday season - at least when it comes to eating. A night of kids begging for candy from everyone, despite strict orders from parents not to ever accept candy from strangers the rest of the year, often leads to serious overloading on candy by delighted and happy kids and adults. Then comes Thanksgiving, the annual holiday for which food IS the theme. And so on, with many holiday parties occurring until we find ourselves on New Year's Day facing the bathroom scale and reflecting on the gluttony.

Not surprisingly, food (including beverages) and food risks emerge as prominent topics of discussion during the holidays. Consumers also remain chronically overwhelmed by so much information about food and nutrition – much of it scarier than any Halloween costume and in direct conflict with our desires to thoroughly enjoy food. While no one questions that eating comes with risks, putting the risks of eating into perspective presents a challenge. This guide offers **10 simple actions** and insights to help you keep food and the risks of eating in perspective.

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10 Actions to Help You Better Manage Food Risks

1. Enjoy eating as part of a healthy life

Eating provides many benefits. Consider that:

- Foods supply calories that your body needs as a source of energy.
- Foods help your body function normally by providing some essential nutrients that the body cannot make and must get from dietary sources, including some vitamins, minerals, amino acids, and fatty acids.
- Individual foods vary in the amounts of different nutrients, protein, carbohydrates, and fats that they contain, so variety in your diet is not only fun and exciting it is required.

2. Recognize eating-related risks

Every activity in life comes with some risks - including eating.

Given the well-recognized benefits and necessity of eating many people forget about the relatively low but very real risks of choking, food poisoning, and allergic reactions. In the overall scheme of things, eating poses relatively low risks and not eating for a prolonged period of time poses a much greater risk, but eating related-risks are not zero:

100%	chance of dying from starvation if you stop eating completely
0.1%	approximate average annual chance of going to a hospital due to food poisoning
0.002%	approximate average annual chance of dying from food poisoning
0.0001%	approximate average annual chance of dying from choking on food

3. Actively reduce your eating-related risks

Many opportunities exist to reduce your eating-related risks. Make sure to:

- Eat slowly and chew food well to prevent choking and improve your chances of a good outcome by knowing how to respond to a choking emergency
- Get tested if you suspect you may have a food allergy, and if you are allergic to any foods carefully check food ingredients and preparations to avoid problems and carry any medications that you might need
- Reduce food poisoning risks from bacteria, viruses, and parasites by selecting foods carefully, appropriately handling and cleaning fresh foods, thoroughly cooking poultry, meats, fish, and seafood, and properly refrigerating and storing foods
- Pay attention to food recalls and consume foods before their expiration dates
- Wash your hands thoroughly before handling food and eating, after using the bathroom, and frequently during the day

4. Exercise and count calories

Excess body fat currently represents a public health crisis. Overweight and obese people experience increased risks of many diseases, including heart disease, diabetes, some cancers, and sleep problems when compared to people of normal body weights. Fat accumulates when your body gets more calories than it needs, so you need to get your energy balance right and make sure that you burn off any excess calories that you consume. If you need to lose weight, then you need to burn more calories than you take in over time while still making sure that you consume the daily nutrition that your body needs. As a general rule, make sure to get an hour of moderate to vigorous exercise at least 4 times per week and at least a little exercise everyday.

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5. Read, understand, and use food labels

Getting information from food labels can help you make better food choices. Start at the top so that you know the serving size and the number of servings in the package, then look at the total number of calories and the calories from fat. Although dietary needs differ, in general most Americans need to watch and limit the total amount of fats, cholesterol, and sodium that they consume, and make sure that they consume enough dietary fiber and their recommended daily intakes of essential nutrients. Make your calories count more by preferring nutrient-rich foods within and among all of the food groups, including a balance of fruits, vegetables, whole grains, low-fat dairy products, and lean meats. Remember that the percent daily values on food labels are based on a 2,000-calorie diet, so if you need a different number of calories you will need to make appropriate adjustments.

6. Go beyond the food label

The work of putting your diet together to build your daily food pyramid falls to you. Food labels provide standardized information to make it easier for you to follow dietary guidelines, which provide recommendations about the amounts of various types of foods that you should eat. However, since you make your own food choices, balancing your diet and making sure that you get the nutrition your body needs is up to you. Remember that the overall pattern is what really counts. You can make up for indulging or not exercising on one day by eating less and exercising more on another day. So, go ahead and enjoy your surf and turf followed by a hot fudge sundae one night, or whatever turns you on, but make sure that you balance any indulgences out. Unfortunately, many people consume excess calories and still get insufficient nutrition, so pay attention to the vitamins, elements, and macronutrients you need and make all your calories count toward a balanced and healthy diet. People with some diseases, including the 5.5% Americans with diabetes, need to pay particular attention to getting the balance right.

7. Actively monitor your health

You should collect data and monitor your own health. Health care providers monitor growth and development for children as they grow, and risk factors like body mass index (BMI) for adults. Use a BMI calculator to find your BMI and talk with your doctor if your BMI exceeds 25. Your doctor should periodically check your blood and body for signs and symptoms of disease and you should take advantage of screening tests for cancers and other diseases. A good diet and staying active are important parts of a healthy lifestyle, so pay attention to your body's warning signals. Remember that your genes and the other choices you make matter too, including important decisions about getting enough sleep, not smoking, preventing injuries, drinking alcohol in moderation, and knowing your risk factors.

8. Ask questions and empower yourself

News stories frequently focus on individual foods associated with individual diseases, but they often lack important context. Arm yourself with questions to ask when you encounter news stories that scare you about any individual food. Almost any individual food can make you sick and some could possibly kill you if you consume too much too quickly. For example, most people need to consume more water than they currently drink (current recommendation of 8 cups per day). However, drinking too much water too quickly can pose an extremely rare but deadly hazard in the form of hyponatremia, which may occur when an athlete drinks too much water without replacing lost salts.

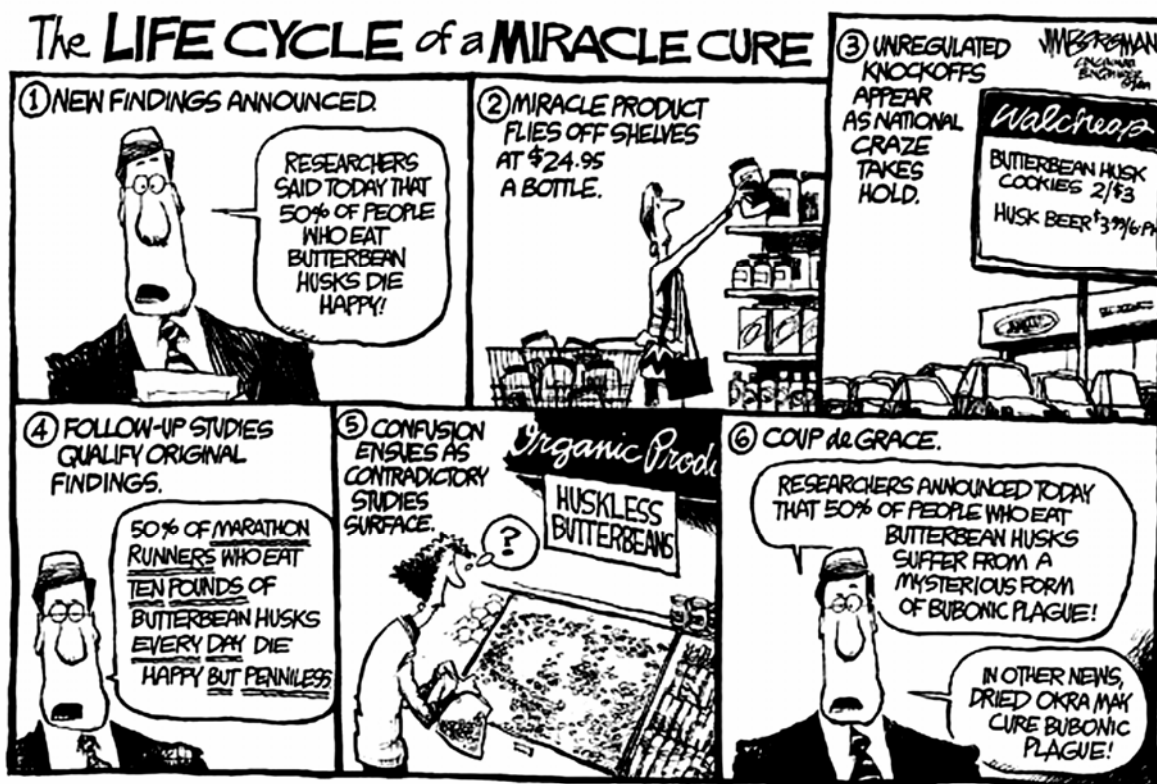
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9. Keep individual food risks in perspective

Remember that eliminating individual foods or food groups from your diet can decrease your intake of essential nutrients and put you at risk for nutritional deficiencies. You may hear about many types of potential food hazards, including:

- Natural substances (e.g., lead, mercury, cadmium, zinc, and other metals and essential elements, which may be incorporated into plants from soil and into processed foods made from plants, and also accumulated in the food chain; botanical pesticides; many others, including some that cause some form of cancer in rodents when given large amounts - including many you may enjoy as part of a holiday meal)
- Natural toxins (e.g., numerous varieties found in poisonous mushrooms, commonly called toadstools; tetrodotoxin in Puffer fish; botulinum toxin; aflatoxin)
- Pathogens that naturally occur (e.g., *Vibrio vulnificus* (bacteria) or noroviruses (viruses) in some raw oysters; *Salmonella* in some unpasteurized milk or undercooked chicken or eggs; Cryptosporidium (parasites) in water)
- Pathogens added in processing (e.g., bacteria from cross-contamination of raw foods; Hepatitis A from infected food handlers)
- Synthetic substances (e.g., preservatives and other food additives; residues of fertilizers or pesticides; contaminants, like the melamine found in pet foods in 2007)

Keep in mind the complexity of diseases and that if we knew their definitive causes then we would also know the perfect cures. The risks of many diseases increase significantly with particular risk factors, including some you cannot control like age, gender, and genetics, and some that you can control like smoking, consuming excess alcohol, and other risky behaviors. Be similarly cautious about news promising miracles and carefully evaluate any health claims.



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10. Get help from experts

Professionals are available to help. Talk with your doctor, registered dietitians, and other health professionals to get the information and advice that you need. Your risks will be different than the risks of some of your friends and family members, so you need to understand your opportunities to live a longer, healthier, and happier life. If you care for others, then take the time to understand how their needs might differ and help them make good choices about diet and physical activity as well.

Helpful links from the on-line guide:

Learning more about food poisoning: <http://www.cdc.gov/ncidod/diseases/food/>

Responding to a choking emergency: http://firstaid.webmd.com/choking_treatment_firstaid.htm

Making your calories count: <http://www.cfsan.fda.gov/~ear/hwm/labelman.html>

Reading food labels:
<http://www.cfsan.fda.gov/~dms/foodlab.html>

Building your food pyramid:
<http://www.mypyramid.gov/mypyramid/index.aspx>

Finding the dietary guidelines:
<http://www.health.gov/dietaryguidelines/default.htm>

Calculating your Body Mass Index (BMI):
<http://www.nhlbisupport.com/bmi/>



Arming your self with questions to ask about health information:

<http://www.health-insight.harvard.edu>

Looking up your recommended water and electrolyte needs: <http://www.iom.edu/File.aspx?ID=20004>

Looking up your recommended daily intakes of vitamins, elements, and macronutrients:
www.iom.edu/File.aspx?ID=21372

Learning about natural substances that you may find in your holiday meal known to cause some form of cancer in animals when given in large amounts:
http://www.acsh.org/publications/pubID.103/pub_detail.asp

For more insight and humor check out Professor Thompson's book *Risk In Perspective: Insight and Humor in the Age of Risk Management* (AORM, 2004)

Confused? Overwhelmed? Worried about your health?
You're not alone...

A cartoon titled "Today's Random Medical News" from the New England Journal of Medicine. It features three pie charts. The first chart is labeled "CAUSE" and includes terms like "STRESS", "RISK", "LACK OF EXERCISE", "POOR DIET", "TOBACCO", "ALCOHOL", "GENETICS", "AGE", "OBESITY", "DIABETES", "HYPERTENSION", "SMOKING", "COPD", "ASTHMA", "ALLERGIES", "INFECTIOUS DISEASES", "CANCER", "HEALTHY DIET", "REGULAR EXERCISE", "NO TOBACCO", "NO ALCOHOL", "GENETICALLY SOUND", "YOUNG", "ACTIVE", "WEIGHT MAINTENANCE", "GOOD DIET", "NO STRESS", "NO RISK", "NO LACK OF EXERCISE", "NO POOR DIET", "NO TOBACCO", "NO ALCOHOL", "NO GENETICS", "NO AGE", "NO OBESITY", "NO DIABETES", "NO HYPERTENSION", "NO SMOKING", "NO COPD", "NO ASTHMA", "NO ALLERGIES", "NO INFECTIOUS DISEASES", "NO CANCER". The second chart is labeled "IN" and includes terms like "HEALTHY DIET", "REGULAR EXERCISE", "NO TOBACCO", "NO ALCOHOL", "GENETICALLY SOUND", "YOUNG", "ACTIVE", "WEIGHT MAINTENANCE", "GOOD DIET", "NO STRESS", "NO RISK", "NO LACK OF EXERCISE", "NO POOR DIET", "NO TOBACCO", "NO ALCOHOL", "NO GENETICS", "NO AGE", "NO OBESITY", "NO DIABETES", "NO HYPERTENSION", "NO SMOKING", "NO COPD", "NO ASTHMA", "NO ALLERGIES", "NO INFECTIOUS DISEASES", "NO CANCER". The third chart is labeled "NEWS" and includes terms like "HEALTHY DIET", "REGULAR EXERCISE", "NO TOBACCO", "NO ALCOHOL", "GENETICALLY SOUND", "YOUNG", "ACTIVE", "WEIGHT MAINTENANCE", "GOOD DIET", "NO STRESS", "NO RISK", "NO LACK OF EXERCISE", "NO POOR DIET", "NO TOBACCO", "NO ALCOHOL", "NO GENETICS", "NO AGE", "NO OBESITY", "NO DIABETES", "NO HYPERTENSION", "NO SMOKING", "NO COPD", "NO ASTHMA", "NO ALLERGIES", "NO INFECTIOUS DISEASES", "NO CANCER". A person is sitting at a desk reading a newspaper titled "NEWS". A speech bubble says "ACCORDING TO REPORT RELEASED TODAY...".

Risk In Perspective
Insight and Humor in the Age of Risk Management
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