

NATIONAL INSTITUTES OF HEALTH

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INTERVIEW WITH DR. DEAN METCALFE

ORIGINAL

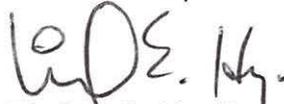
\* \* \* C E R T I F I C A T E \* \* \*

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STENOTECH, INC.

  
Michael E. Hyer

President

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P R O C E E D I N G S

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QUESTION: Dr. Metcalfe, people often say they're allergic to a certain food when what they really mean is that it disagrees with them in some way. How do you define a true food allergy?

DR. METCALFE: A true food allergy is distinguished from other problems with foods by the fact that it has an immunologic--

MR. : Do you want a place to sit?

MS. : I'm fine. Thanks.

QUESTION: Would you like me to repeat the question?

MS. : You might want to wait until--

DR. METCALFE: It's a very long question. It was hard for me to repeat that.

QUESTION: Okay. I know. Okay. Then, I guess, basically, to define a true food allergy as opposed to a food intolerance.

DR. METCALFE: That would be fine. Yes. That's really what you're getting at.

QUESTION: That's really what I'm getting at.

DR. METCALFE: Or you could say something like, "A lot of people think they're allergic to foods, but many

1 times it's not a true allergy. How do you distinguish  
2 them?"

3 QUESTION: In fact the question-- I didn't  
4 realize that my questions were not going to be heard,  
5 because that was what I was trying--

6 MR. : They're heard. They're just a  
7 little off mike.

8 QUESTION: And they were going to be eliminated.  
9 That they are going to be edited out. That's what I mean.  
10 Because I wanted people to realize-- You know, it was for  
11 those people who have a food intolerance.

12 DR. METCALFE: The question made sense. It's  
13 just that I thought, "Boy, if I have to repeat that whole  
14 question--"

15 QUESTION: Yes. You can't do that. Yes.

16 Okay. Are we ready?

17 MR. : We're rolling. Okay.

18 QUESTION: Dr. Metcalfe, how do you define a true  
19 food allergy as opposed to an intolerance that people have  
20 to certain foods?

21 DR. METCALFE: A true food allergy, versus a food  
22 intolerance, is defined as a reaction that has as its  
23 basis--

24 MR. : Sorry. I--

25 DR. METCALFE: Try again. You don't have to state

1 it again. A true food allergy is distinguished from a food  
2 intolerance on the basis of what causes the reaction. In  
3 the case of a food allergy it's an immunologic reaction of  
4 the body against the food, which is an abnormal response,  
5 obviously, to eating a food. A food intolerance, in  
6 contrast, is a term given to any reaction to a food whose  
7 basis is unknown or may have something to do with the  
8 quality of the food or the chemicals within the food.

9 QUESTION: Okay. Also, and when you finish the  
10 question, just continue to look at me and just pause. Have  
11 a few seconds pause.

12 How common are food allergies?

13 DR. METCALFE: The question is how common are food  
14 allergies. Food allergies are rare in contrast to what the  
15 public perception of food allergies is. In other words,  
16 people think that food allergies are extremely common. If  
17 you survey families you'll find that as many as one in three  
18 families may change the way they eat based upon believed or  
19 perceived problems to foods or food additives. In reality,  
20 less than one percent of adults are probably truly allergic  
21 to a food and probably three percent, or less, of children.

22 QUESTION: Are food allergies inherited?

23 DR. METCALFE: The question is frequently asked  
24 whether food allergies are inherited. Food allergies  
25 themselves, or the pattern of food reactivity, is not

1 inherited. By that I mean that if you find a child who is  
2 allergic to peanuts and you talk to the parents and the  
3 siblings you'll almost never find someone else in that  
4 family that has that same specific food allergy. But what  
5 you do find is that people with food allergies come from  
6 allergic families that have a history of such things as  
7 allergic rhinitis and allergic asthma and eczema. And in  
8 fact sometimes you'll find other members of the family with  
9 selected food allergies, but they won't be the same.

10           The answer to the question then is that the  
11 tendency to develop food allergy is inherited, but the  
12 specific pattern is not.

13           Another question asked frequently along that line  
14 is, "If I have a child that's sensitive to peanuts, will my  
15 other children be sensitive to peanuts?" And the answer is  
16 no, although they'll probably be allergic if the parents are  
17 allergic, in general.

18           QUESTION: All right. Is there any way to prevent  
19 a child from having a food allergy? For example, are there  
20 any precautions a pregnant woman can take if allergies run  
21 in the family?

22           DR. METCALFE: One of the issues that comes up  
23 frequently in terms of management of allergies is the  
24 question, "Can I do something to prevent my child from  
25 having a food allergy?" And the answer is a complex one.

1 There is nothing that a parent can do, or a mother can do,  
2 to prevent their child from developing allergies later in  
3 life, it does not appear. But there are some strategies  
4 that can be taken to try to avoid problems, in children in  
5 particular, in families where infant feeding problems have  
6 been common.

7           Now, it's not recommended currently that women who  
8 are pregnant alter their diet to try to prevent a problem.  
9 There is no evidence that that works. But it is generally  
10 recommended that if at all possible, if there is a history  
11 of allergies and infant feeding problems, that the child be  
12 breast fed. And if the problems have been severe in the  
13 past it's recommended also that the mother, while breast  
14 feeding, alter her diet to eliminate foods that are highly  
15 allergenic such as peanuts, for instance, or even milk.  
16 This, then, means that the child will receive normal breast  
17 milk, and children do not become allergic to human milk, and  
18 will also avoid small amounts of proteins that are excreted  
19 into the milk that the child could become sensitive to. If  
20 the mother can't breast feed, then there are hypoallergenic  
21 formulas that can be used.

22           Now, that will generally take the infant through a  
23 critical period of the first 6-9 months where allergies are  
24 quite frequent in these families. After that, then the  
25 child is put on a regular diet and, of course, may or may

1 not develop into the usual pattern of allergies that are  
2 seen in that family.

3 QUESTION: Good. How do you make a diagnosis of  
4 food allergy?

5 DR. METCALFE: Food allergy is diagnosed on the  
6 basis of the history of the reaction and there are classical  
7 patterns of reactions. Food allergy comes on suddenly, for  
8 instance, and others don't get ill eating the same food. So  
9 the doctor then makes a tentative diagnosis of food allergy  
10 based on history. Then he has two things he can do:

11 He can do tests to see if there is a specific  
12 immunoglobulin to food called IgE, either by skin testing  
13 the patient with food extracts, or doing tests that can be  
14 done *in vivo*. That is serum is taken from the patient which  
15 is tested for the presence of these immunoglobulins;

16 And finally, if there is confusion, and if it can  
17 be done safely, the patient can be tested with small amounts  
18 of the food to see if they do indeed react.

19 Then, based upon all that information, the doctor  
20 will decide if it's a food allergy and what the foods  
21 involved consist of.

22 QUESTION: Once a food allergy is diagnosed, what  
23 is the treatment?

24 DR. METCALFE: The treatment of food allergy, once  
25 properly diagnosed, is simple food avoidance. That is the

1 concept is simple: identify the foods to which the patient  
2 reacts and remove them from the diet.

3 Now, in a practical sense that's difficult because  
4 patients have to learn how to read food labels and so on.

5 The second part of the recommendation is, if the  
6 food allergy is life-threatening or severe, or may be severe  
7 in the future, patients must be prepared to self-medicate if  
8 they have inadvertent exposure to a food to which they're  
9 sensitive. This usually consists of the patient being  
10 trained in the use of self-administered--by syringe--a drug  
11 called epinephrine or adrenalin. The patient will carry  
12 then an adrenalin syringe and use it if needed.

13 Then, of course, the recommendation is seek  
14 medical aid quickly because that adrenalin, or epinephrine,  
15 may wear off and the food allergies can come back and they  
16 need to be in an emergency room.

17 There is no medication that can be taken before  
18 eating a meal that will reliably prevent a true food  
19 allergic reaction.

20 MR. : Time out just for a second.  
21 Do you need to clear your throat?

22 DR. METCALFE: Yes.

23 QUESTION: Okay. Well, you just answered my next  
24 question.

25 DR. METCALFE: You could ask it again though--Do

1 you want to do it again--because they can always split it.

2 MR. : Can I get you something to  
3 drink?

4 DR. METCALFE: No. I'm a little bit hoarse, but I  
5 think it's because I've got a cold or something. So, this  
6 is as good as it's going to get today.

7 MS. : It sounds sexy. It's good.

8 MS. : Ooh, Esther.

9 DR. METCALFE: That's what I need.

10 QUESTION: Next question. Are any drugs used to  
11 treat food allergies?

12 DR. METCALFE: There are only-- The drugs used--  
13 Let me start again. The drugs used to treat food allergies  
14 are used after inadvertent exposure. No drug can prevent a  
15 food allergic reaction.

16 MR. : Do you want to start that  
17 again?

18 DR. METCALFE: Yes. I'm having trouble. Maybe  
19 you'd better get me something to drink.

20 MR. : Okay. Rolling.

21 DR. METCALFE: There are a number of drugs that  
22 can be used to treat food allergies, but it's always in the  
23 context of inadvertent exposure to a food to which a person  
24 is sensitive. For instance, if a person is sensitive to  
25 peanuts and eats those peanuts, then that patient may have

1 to be treated, even self-treated, with epinephrine and then  
2 go seek medical aid. If the reaction results in asthma or  
3 wheezing they can then be treated with anti-asthma  
4 medications. If it results in a rash they can take  
5 antihistamines for the rash. But again, there is no  
6 medication that you can take to prevent a food allergic  
7 reaction.

8           Thanks. I don't think it's going to help, but--  
9 Thank you.

10           QUESTION: Okay. Next question. What kinds of  
11 conditions can be confused with food allergy?

12           DR. METCALFE: There are a number of conditions  
13 that can be confused with food allergy. Remember that food  
14 allergy is manifested by problems such as stomach pain,  
15 vomiting, rashes, trouble breathing and maybe light-  
16 headedness, even loss of consciousness. Now, a myriad of  
17 medical conditions can show up as those kind of symptoms.  
18 The most common confusing diseases, however, in terms of  
19 food allergy are things such as eating a food that's spoiled  
20 so you have what is commonly referred to as "food  
21 poisoning"--there is some bacteria or bacterial product that  
22 causes you to get sick--or toxins that can sometimes occur  
23 in foods such as histamine, which can sometimes contaminate  
24 poorly prepared fish. And there are things like scallops  
25 that can actually concentrate toxins from the red tides or

1 the adenoflagellates and they, when eaten, will cause you to  
2 become ill. But it's generally things that come naturally  
3 in foods as toxins or contaminants. That's our biggest  
4 problem in trying to sort out a food allergy.

5           However, under those conditions, many times a  
6 number of individuals eating that food will become sick, so  
7 it helps us sort it out.

8           In rare cases, however, there are some things that  
9 we worry about because we don't want to miss them. We worry  
10 about people with stomach pain blaming it on a food allergy  
11 when, in reality, it might be an ulcer, or the most feared  
12 problem would be a malignancy of the gastrointestinal tract  
13 which would be falsely attributed to a food allergy, and  
14 then the patient would not seek medical attention for a  
15 critical period during which they could be cured.

16           We urge all people that think they have a food  
17 allergy to bring that to the attention of their internist  
18 or, if it's a child, that the child be taken to the  
19 pediatrician and let them decide if a work-up for food  
20 allergy is indicated or whether some other disease should be  
21 considered.

22           QUESTION: Okay. You just knocked scallops out of  
23 my diet. It's my favorite food.

24           DR. METCALFE: Did I? You know, the scallops are  
25 actually regulated and during certain times of the year

1 they're not to be gathered and processed because the  
2 reactions are more common.

3 QUESTION: But they're safe at the Safeway, right?

4 DR. METCALFE: I'm sure.

5 QUESTION: Okay. What are the foods most often  
6 involved in allergies?

7 DR. METCALFE: The foods most often involved in  
8 allergies depend upon the age of the patient and actually  
9 where the patient lives. But for children and infants it's  
10 what they're exposed to. So it's milk protein and often soy  
11 protein. And then mothers begin to feed children early with  
12 such things as peanut butter, so peanut becomes an issue.  
13 And sometimes things like corn and wheat will become minor  
14 problems.

15 In adults, the most common food allergies in this  
16 country are eggs, tree nuts such as walnuts, peanuts, and  
17 seafood, particularly whitefish and crustacea, which  
18 includes lobster, crayfish and crab.

19 Now, if you go to other areas in the world where  
20 other foods are more commonly eaten--for example in  
21 Scandinavia they eat a lot of cod fish, so cod fish allergy  
22 is common there, and in Japan they eat a lot of rice and  
23 rice allergy is more common--so it depends upon age and  
24 where a person is living.

25 QUESTION: Do children outgrow allergies or, in

1 the case of adults, do they ever just go away?

2 DR. METCALFE: The problem with allergies to foods  
3 in terms of whether or not they resolve is a commonly asked  
4 question. In children, some allergies are lost more  
5 commonly. That is, a child sensitive to milk stands a good  
6 chance of losing that milk allergy. But to some of the  
7 other materials, such as peanuts, will probably remain  
8 sensitive perhaps through adulthood to peanuts. In adults,  
9 when food allergies develop, particularly in the 20s and  
10 30s, these seem to persist for long periods of time.

11 Now, there is some evidence that if you identify  
12 yourself as an adult of being sensitive to a particular  
13 food, that if you avoid that food for maybe a year or two,  
14 that some people can go back and eat it safely. But about  
15 half the people will re-experience their allergy after a few  
16 feedings. We have to say then that outside of children  
17 outgrowing some materials such as milk that aren't as  
18 allergenic, most food allergies have to be considered  
19 permanent once they develop.

20 QUESTION: So then, in a sense then, allergies can  
21 develop at any time during life?

22 DR. METCALFE: Food allergies can have their onset  
23 at any time during life, although we see clustering, of  
24 course, in infants and children, and we see an onset of food  
25 allergies through the 20s and early 30s. After that, it

1 becomes more unusual, but people can, in reality, develop  
2 food allergies virtually at any time. This is obviously  
3 confusing because they say, "Gee, I now have a rash when I  
4 eat shrimp. I never had it before. There must be something  
5 else going on." But in fact a person in their 20s or 30s  
6 can develop a shrimp allergy and, for the first time, have  
7 even a life-threatening reaction.

8           QUESTION: Hmm, next question. Anaphylactic shock  
9 is a serious medical emergency. How important is it for  
10 people with food allergies to know about this and be  
11 prepared to take action in the event that it occurs?

12           DR. METCALFE: Anaphylactic shock is a severe,  
13 life-threatening, allergic reaction which can occur to many  
14 different substances. One of the substances consists of  
15 foods, so that it is not uncommon for someone with a true  
16 immunologic food allergy to develop reactions that can  
17 develop into anaphylaxis. Particularly with tree nuts and  
18 peanuts and seafoods this is seen. Those patients must be  
19 identified and instructed on how to self-medicate if they  
20 inadvertently consume a food that they know they shouldn't  
21 be eating. It's extremely important that they do that  
22 because this can essentially save their lives. There are a  
23 number of deaths every year that occur when someone who  
24 knows they're sensitive to a food eats that food  
25 inadvertently, experiences a drop in blood pressure,

1 inability to breath, sometimes throat swelling so they can't  
2 breath, and this can result in death. This is preventable  
3 if the person administers themselves epinephrine, which is  
4 sometimes called adrenalin, immediately after the reaction  
5 and then goes to seek medical aid.

6           Now, the problem with anaphylactic shock is  
7 particularly difficult in young children, where the young  
8 children may not be able to self-medicate. And when the  
9 child is at home, of course, around parents, the parents can  
10 recognize the reaction if inadvertent exposure occurs and  
11 they can treat the child with epinephrine. But in school  
12 this has to be worked out very carefully. The school nurse  
13 needs to know the problem, the teacher in the room, the  
14 principal, and a plan needs to be developed so that the  
15 child is promptly treated with adrenalin and then taken to a  
16 situation where there is full life support, really to an  
17 emergency room. This must be planned out in advance because  
18 of the severe nature of this.

19           QUESTION: There has been a lot of media attention  
20 in recent years about health problems such as chronic  
21 fatigue syndrome, women's yeast infections, arthritis, other  
22 perhaps vague aches and pains, relating these things to food  
23 allergies. What can you tell us about this?

24           DR. METCALFE: Many times people associate a  
25 number of problems, including recurrent yeast infections,

1 sometimes nervousness or attention deficit disorders,  
2 fatigue--chronic fatigue--and arthritis to foods they eat  
3 and they assume that this is a food allergy. In reality  
4 there is little or no evidence that any of these problems  
5 are due to true food allergies or, in fact, are even  
6 associated with a particular diet. These problems have been  
7 looked at and can be looked at in an individual patient with  
8 a procedure called double-blind, placebo-controlled food  
9 challenge. In this procedure food is administered to the  
10 patient in capsules and the patient is asked to see if their  
11 problem gets worse or gets better. Sometimes they're  
12 getting the food that they're concerned about and sometimes  
13 they're getting a placebo, that is something simple such as  
14 sugar that's known not to cause the reaction. So these  
15 questions can be evaluated. But the majority of these  
16 problems have nothing to do with true food allergies.

17 QUESTION: Okay. How about migraines? Are they  
18 ever caused by food allergies?

19 DR. METCALFE: Migraines are often suggested to be  
20 due to food allergies, and there is no question that this is  
21 a controversial area. There is some evidence to suggest  
22 that true food allergies can be associated with severe  
23 headaches. One way to look at this is if you have an  
24 allergic reaction and if you're prone to have migraines it  
25 could bring on a migraine headache. There are also

1 materials within foods called vasoactive amines and there  
2 are certain alcohols within foods, or beer and wine, of  
3 course, obviously have alcohols and higher alcohols that are  
4 known to precipitate migraine type headaches in people who  
5 have recurrent migraine headaches. So, yes, I think there  
6 is an association with diet, both in the possibility that  
7 some people are truly food allergic but, more importantly,  
8 in that some normal constituents of foods can bring on a  
9 migraine headache. Both of these problems, of course, can  
10 be evaluated and, if found to be implicated in migraine  
11 headaches, a diet can be constructed to at least decrease  
12 the frequency of migraine headaches.

13 Now, some of these answers may be to convoluted.  
14 We can go over them. What I'm trying to do is, I'm trying  
15 to structure them so that they can cut them up. I mean--

16 QUESTION: Yes. I've noticed that. Yes. We'll  
17 be able to do this.

18 MR. : Do we want to revisit the  
19 first question?

20 DR. METCALFE: Sure.

21 QUESTION: Yes. That's the definition of a true  
22 food allergy as opposed to a food intolerance?

23 DR. METCALFE: Okay. Let me think if I can think  
24 of a way to say this.

25 There are two terms that are used to describe

1 reactions to foods, particularly associated with a  
2 particular group of foods, and the first term is a general  
3 term called "food intolerance." And this is applied to  
4 people who have reactions to foods perhaps because of  
5 materials within the foods or materials that contaminate the  
6 foods, but these reactions are not on an immunologic basis.  
7 And these are called food intolerances. An example of this  
8 might be people who can't tolerate onions because of the  
9 pharmacologic properties of the onions, but it's not a food  
10 allergy.

11 True food allergies, however, have an immunologic  
12 basis. They're based on an abnormal response of the body to  
13 the food and there is a true response on an immunologic  
14 basis if the person eats the food inadvertently. And this  
15 results in such things as hiving, trouble breathing,  
16 swelling of the throat, abdominal pain, vomiting, nausea,  
17 and a host of symptoms of true allergic responses.

18 That's probably better. Probably.

19 MR. : Excellent. Let me get the  
20 mike off you and let you loose.

21 DR. METCALFE: All right. Well, we'll see what  
22 happens.

23 (Whereupon, the interview concludes.)