

Strong Physician Role Seen in DTC Genetic Tests

BY ALICIA AULT

FROM A MEETING OF THE FDA'S
MOLECULAR AND CLINICAL GENETICS
ADVISORY COMMITTEE

GAITHERSBURG, MD. – The Food and Drug Administration should require that some genetic tests sold directly to consumers be ordered by a trained health care professional, and that such professionals should interpret results of most of these tests, an advisory committee to the agency has urged.

The panel did not take any formal votes during a meeting last month, but discussed a variety of issues related to tests that are currently sold, almost without any regulation, to consumers over the Internet. Last year, the FDA notified manufacturers of such tests that they must comply with agency rules, and the agency is working with companies now to help them win approval.

The tests run the gamut from diag-

nostics that determine carrier status for diseases like cystic fibrosis, to those that test for the presence of a specific mutation like BRCA or assess the risk of developing cardiovascular disease or certain cancers. A number of tests on the market have no scientific evidence to substantiate their claims for being able to predict outcomes such as whether a child will excel at sports.

In July 2010, the agency estimated that as many as 700 laboratories offer such direct-to-consumer (DTC) genetic tests.

During the course of the 2-day meeting, the 22 committee members struggled over whether the benefits of consumers' having access to such data outweigh the risks of their being unable to understand the results, or perhaps their becoming falsely reassured or upset by them. The panelists gave the agency some suggestions on how the risks of poor communication or bad test design could be mitigated.

But most of the debate centered on the role of physicians or trained health care professionals, and most panelists believed that professionals should be centrally involved at some point in the process. Test makers and the consumer member of the panel, for their part, said that Americans have the right to their own genetic data, and that in all likelihood, consumers would consult with a physician, especially if it were for a serious condition like Huntington's disease.

The FDA usually follows its panels' advice, but is not required to do so.

The FDA asked the panel to assess five test categories (carrier tests, "pre-symptomatic" tests, susceptibility tests, pharmacogenetic tests, and nutrigenetic tests). The agency wanted to know whether some categories should be classified as lower or higher risk and thus be subject to more regulatory restrictions.

The panel did not feel comfortable

with the selling of carrier tests (that is, those that identify cystic fibrosis, Tay-Sachs disease, and other conditions) directly to consumers. "Many of these disorders ... can't be well communicated outside of clinical consultation," said panelist Ira Lubin, Ph.D., a clinical molecular geneticist at the Centers for Disease Control and Prevention.

For tests that assess the risk of common conditions such as cancer, Alzheimer's, or cardiovascular disease, the panel was concerned that the results might be falsely reassuring or might discount environmental or lifestyle factors that might also contribute to risk.

"I don't think any of us are saying the patient or the consumer doesn't have a right to know," said panelist Joann Boughman, Ph.D., CEO of the American Society of Human Genetics. "I would suggest we are not ready yet to put this directly into the consumers' hands." ■

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