

MEETING ABSTRACT

Open Access

# New diagnostic test for high risk of breast cancer in Poland

B Gorski

From Annual Conference on Hereditary Cancers 2009  
Szczecin, Poland. 10-11 December 2009

It is a primary goal in clinical cancer genetics to identify in a population the full range of mutant alleles that predispose to breast cancer (or to another cancer) and then to offer a rapid and inexpensive genetic assay to test for these alleles in a single setting. Many challenges are raised by this approach. The genetic test must be accurate, rapid and cost effective. If a disease-associated mutation is found, presymptomatic testing of other family members for the specific mutation is possible. In Poland the three founder mutations in BRCA1 (C61G, 4153delA, 5382insC) account for 86% of all BRCA1 and BRCA2 mutations. Mutations in BRCA2 are relatively rare in Poland and no founder BRCA2 mutations have been identified. Several other rare mutations in the BRCA1/2 genes have been found in Polish families with occurrence of hereditary breast and ovarian cancers. Application of Sequenom mutation detection platform, critically improved screening of broad Polish BRCA1/2 genes mutations spectrum. We have developed diagnostic test focused on 25 Polish recurrent BRCA1/2 genes mutations. Mutation detection method was based on automated MALDI-TOF mass spectrometry in Sequenom MassArray™ system using iPLEX GOLD assay reactions that ends after a Single Base Extension.

Published: 1 June 2011

doi:10.1186/1897-4287-9-S2-A3

Cite this article as: Gorski: New diagnostic test for high risk of breast cancer in Poland. *Hereditary Cancer in Clinical Practice* 2011 **9**(Suppl 2):A3.

International Hereditary Cancer Center, Pomeranian Medical University,  
Szczecin, Poland

Submit your next manuscript to BioMed Central  
and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at  
[www.biomedcentral.com/submit](http://www.biomedcentral.com/submit)

