

10/21/2014 - New Release, Quest Diagnostics Nichols Institute, Valencia

**Revision Message!**  
 Please note: 10/29/14 communication revision as all tests are available for New York patient testing.

**NEW TESTS**  
 Please Note: Not all test codes assigned to each assay are listed in the table of contents.  
 Please refer to the complete listing on the page numbers indicated.

Test Code	Test Name	Effective Date	Page #
<a href="#"><u>92587</u></a>	BRC Advantage™ Plus (BRCA1, BRCA2, TP53, PTEN, CDH1, STK11, PALB2)	11/3/2014	1
<a href="#"><u>92573</u></a>	BRC Advantage™ with Reflex to Breast Plus Panel	11/3/2014	3
<a href="#"><u>92586</u></a>	Breast Plus Panel without BRCA (TP53, PTEN, CDH1, STK11, PALB2)	11/3/2014	5
<a href="#"><u>92568</u></a>	CDH1 Sequencing and Deletion/Duplication	11/3/2014	6
<a href="#"><u>92571</u></a>	PALB2 Sequencing and Deletion/Duplication	11/3/2014	7
<a href="#"><u>92566</u></a>	PTEN Sequencing and Deletion/Duplication	11/3/2014	8
<a href="#"><u>92565</u></a>	STK11 Sequencing and Deletion/Duplication	11/3/2014	9
<a href="#"><u>92560</u></a>	TP53 Sequencing and Deletion/Duplication	11/3/2014	9

## New Test Offerings

The following tests will be available through Quest Diagnostics on the dates indicated below.

<b>BRC Advantage™ Plus (BRCA1, BRCA2, TP53, PTEN, CDH1, STK11, PALB2)</b>	
Revision Message!	Please note: The message was updated to remove the New York Patient Testing restriction effective 10/29/14.
Clinical Significance	10% of breast cancer cases that are hereditary are caused by a few genes. BRCA1 and BRCA2 account for most (~80%) of hereditary breast cancers. Five other medium risk genes include CDH1, PALB2, PTEN, STK11 and TP53. Sequence analysis and deletion/duplication analysis of these five genes can complement BRCA testing and further elucidate an individual's hereditary breast cancer risk.
Effective Date	11/3/2014
Test Code	92587
CPT Codes	81211, 81213, 81405 (x 2), 81479, 81321, 81323, 81406 (x 2), 81404
Specimen Requirements	4 mL (2 mL minimum) whole blood collected in an EDTA (lavender-top) tube
Reject Criteria	Gross hemolysis; clotted specimens
Instructions	Whole Blood: Normal phlebotomy procedure; specimen stability is crucial. Store and ship room temperature immediately. Do not freeze. Send report of results for family member with known BRCA mutation.
Transport Temperature	Room temperature
Specimen Stability	Room temperature and Refrigerated: 8 days Frozen: Unacceptable
Set-up/Analytic Time	Set up: Tues, Thurs, Sat; Report available: 14 days from completed pre-authorization
Reference Range	Accompanies report
Methodology	Exon Capture, Next Generation Sequencing, Multiplex Ligation-dependent Probe Amplification

Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano	
Interface Mapping	<b>92587-1-Interpretation Summary</b>	
	<b>Result Code</b>	<b>Type</b>
	86007572	Prompt-Result (no return)
	86011589	Interpretation Summary
	<b>92587-2-BRCA1 Sequencing and Del/Dup</b>	
	<b>Result Code</b>	<b>Result Name</b>
	86010069	BRCA1 Sequencing
	86010070	BRCA1 Seq Interp
	86010071	BRCA1 Del/Dup
	86010072	BRCA1 Del/Dup Interp
	<b>92587-3-BRCA2 Sequencing and Del/Dup</b>	
	<b>Result Code</b>	<b>Result Name</b>
	86010073	BRCA2 Sequencing
	86010074	BRCA2 Seq Interp
	86010075	BRCA2 Del/Dup
	86010076	BRCA2 Del/Dup Interp
	<b>92587-4-TP53 Sequencing and Del/Dup</b>	
	<b>Result Code</b>	<b>Result Name</b>
	86011410	TP53 Sequencing
	86011411	TP53 Seq Interp
	86011412	TP53 Del/Dup
	86011413	TP53 Del/Dup Interp
	<b>92587-5-PTEN Sequencing and Del/Dup</b>	
	<b>Result Code</b>	<b>Result Name</b>
	86011520	PTEN Sequencing
	86011521	PTEN Seq Interp
	86011522	PTEN Del/Dup
	86011523	PTEN Del/Dup Interp
<b>92587-6-CDH1 Sequencing and Del/Dup</b>		
<b>Result Code</b>	<b>Result Name</b>	
86011527	CDH1 Sequencing	
86011528	CDH1 Seq Interp	
86011529	CDH1 Del/Dup	
86011530	CDH1 Del/Dup Interp	

92587-7-STK11 Sequencing and Del/ Dup	
Result Code	Result Name
86011513	STK11 Sequencing
86011514	STK11 Seq Interp
86011515	STK11 Del/Dup
86011516	STK11 Del/Dup Interp
92587-8-PALB2 Sequencing and Del/Dup	
Result Code	Result Name
86011534	PALB2 Sequencing
86011535	PALB2 Seq Interp
86011536	PALB2 Del/Dup
86011537	PALB2 Del/Dup Interp
92587-9-Comprehensive Report and Additional Information	
Result Code	Result Name
86011590	Comprehensive Interp
86011591	Additional Information

BRCAvantage™ with Reflex to Breast Plus Panel	
Revision Message!	Please note: The message was updated to remove the New York Patient Testing restriction effective 10/29/14.
Clinical Significance	10% of breast cancer cases that are hereditary are caused by a few genes. BRCA1 and BRCA2 account for most (~80%) of hereditary breast cancers. Five other medium risk genes include CDH1, PALB2, PTEN, STK11 and TP53. Sequence analysis and deletion/duplication analysis of these five genes can complement BRCA testing and further elucidate an individual's hereditary breast cancer risk.
Effective Date	11/3/2014
Test Code	92573
CPT Codes	81211, 81213
Specimen Requirements	4 mL (2 mL minimum) whole blood collected in an EDTA (lavender-top) tube
Reject Criteria	Gross hemolysis; clotted specimens
Instructions	Whole Blood: Normal phlebotomy procedure; specimen stability is crucial. Store and ship room temperature immediately. Do not freeze. Send report of results for family member with known BRCA mutation.
Transport Temperature	Room temperature
Specimen Stability	Room temperature and Refrigerated: 8 days Frozen: Unacceptable
Set-up/Analytic Time	Set up: Tues, Thurs, Sat; Report available: 14 days from completed pre-authorization
Reference Range	Accompanies report
Methodology	Exon Capture, Next Generation Sequencing, Multiplex Ligation-dependent Probe Amplification
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

Interface Mapping

92573-1-Interpretation Summary		
Result Code	Type	Result Name
86007572	Prompt-Result (no return)	Ethnicity:
86011541		Interpretation Summary
92573-2-BRCA1 Sequencing and Del/Dup		
Result Code	Result Name	
86010069	BRCA1 Sequencing	
86010070	BRCA1 Seq Interp	
86010071	BRCA1 Del/Dup	
86010072	BRCA1 Del/Dup Interp	
92573-3-BRCA2 Sequencing and Del/Dup		
Result Code	Result Name	
86010073	BRCA2 Sequencing	
86010074	BRCA2 Seq Interp	
86010075	BRCA2 Del/Dup	
86010076	BRCA2 Del/Dup Interp	
<i>* TR 92573-4-TP53 Sequencing and Del/Dup</i>		
Result Code	Result Name	
86011410	TP53 Sequencing	
86011411	TP53 Seq Interp	
86011412	TP53 Del/Dup	
86011413	TP53 Del/Dup Interp	
<i>*TR 92573-5-PTEN Sequencing and Del/Dup</i>		
Result Code	Result Name	
86011520	PTEN Sequencing	
86011521	PTEN Seq Interp	
86011522	PTEN Del/Dup	
86011523	PTEN Del/Dup Interp	
<i>*TR 92573-6-CDH1 Sequencing and Del/Dup</i>		
Result Code	Result Name	
86011527	CDH1 Sequencing	
86011528	CDH1 Seq Interp	
86011529	CDH1 Del/Dup	
86011530	CDH1 Del/Dup Interp	
<i>*TR 92573-7-STK11 Sequencing and Del/Dup</i>		

Result Code	Result Name
86011513	STK11 Sequencing
86011514	STK11 Seq Interp
86011515	STK11 Del/Dup
86011516	STK11 Del/Dup Interp
<b>*TR 92573-8-PALB2 Sequencing and Del/Dup</b>	
Result Code	Result Name
86011534	PALB2 Sequencing
86011535	PALB2 Seq Interp
86011536	PALB2 Del/Dup
86011537	PALB2 Del/Dup Interp
<b>92573-9-Comprehensive Report and Additional Information</b>	
Result Code	Result Name
86011542	Comprehensive Interp
86011543	Additional Information
<b>*TR (True Reflex) Flag</b> <i>CPU interface clients: If you are set up to use our True Reflexing option, build the unit codes with the TR flag (indicated above) separately.</i>	
Additional Information	<p>If the Interpretation Summary is not one of the following three results:  <b>Positive for a known Pathogenic Mutation;</b>  <b>Positive for a likely Pathogenic Mutation;</b>  <b>Positive for a likely Pathogenic Mutation and a variant with unknown significance,</b>                      then TP53, PTEN, CDH1, STK11, and PALB2 will be performed at an additional charge (add CPT code(s) 81321, 81323, 81404, 81405 (x2), 81406 (x2), 81479).</p> <p>Pricing Message: Negotiated pricing on 91863 will be applied to code 92573 (screen).</p>

<b>Breast Plus Panel without BRCA (TP53, PTEN, CDH1, STK11, PALB2)</b>	
Revision Message!	<b>Please note: The message was updated to remove the New York Patient Testing restriction effective 10/29/14.</b>
Clinical Significance	<b>CDH1, PALB2, PTEN, STK11 and TP53 are tumor suppressor genes, where inherited mutations significantly increase breast cancer risk. Testing for mutations in these gene by sequencing and deletion/duplication analysis complement BRCA testing in further elucidate an individual's hereditary breast cancer risk.</b>
Effective Date	<b>11/3/2014</b>
Test Code	<b>92586</b>
CPT Codes	<b>81321, 81323, 81404, 81405 (x2), 81406 (x2), 81479</b>
Specimen Requirements	<b>4 mL (2 mL minimum) whole blood collected in an EDTA (lavender-top) tube</b>
Reject Criteria	<b>Gross hemolysis; clotted specimens</b>
Instructions	<b>Whole Blood: Normal phlebotomy procedure; specimen stability is crucial. Store and ship room temperature immediately. Do not freeze. Send report of results for family member with known BRCA mutation.</b>
Transport Temperature	<b>Room temperature</b>

Specimen Stability	Room temperature and Refrigerated: 8 days Frozen: Unacceptable																																																																																											
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86011534	PALB2 Sequencing
86011535	PALB2 Seq Interp
86011536	PALB2 Del/Dup
86011537	PALB2 Del/Dup Interp
92586-7-Comprehensive Report and Additional Information	
Result Code	Result Name
86011587	Comprehensive Interp
86011588	Additional Information

CDH1 Sequencing and Deletion/Duplication																									
Revision Message!	Please note: The message was updated to remove the New York Patient Testing restriction effective 10/29/14.																								
Clinical Significance	Germline mutations in the CDH1 (E-cadherin gene) gene have been reported in families with a hereditary predisposition to breast cancer and gastric cancer. Sequencing and deletion/duplication analyses of the CDH1 gene will identify individuals at risk for hereditary breast and gastric cancer.																								
Effective Date	11/3/2014																								
Test Code	92568																								
CPT Codes	81406, 81479																								
Specimen Requirements	4 mL (2 mL minimum) whole blood collected in an EDTA (lavender-top) tube																								
Reject Criteria	Gross hemolysis; clotted specimens																								
Instructions	Whole Blood: Normal phlebotomy procedure; specimen stability is crucial. Store and ship room temperature immediately. Do not freeze. Send report of results for family member with known BRCA mutation.																								
Transport Temperature	Room temperature																								
Specimen Stability	Room temperature and Refrigerated: 8 days Frozen: Unacceptable																								
Set-up/Analytic Time	Set up: Tues, Thurs, Sat; Report available: 14 days from completed pre-authorization																								
Reference Range	Accompanies report																								
Methodology	Exon Capture, Next Generation Sequencing, Multiplex Ligation-dependent Probe Amplification																								
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86011530		CDH1 Del/Dup Interp																							
86011531		Comprehensive Interp																							

	86011532	Additional Information
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PALB2 Sequencing and Deletion/Duplication																													
Revision Message!	<b>Please note: The message was updated to remove the New York Patient Testing restriction effective 10/29/14.</b>																												
Clinical Significance	<b>Fanconi anemia (subtype FA-N) has been linked to homozygous or compound heterozygous mutations in the PALB2 gene. Germline PALB2 mutations increase the risk of breast and pancreatic cancer. Sequencing and deletion/duplication analyses of the PALB2 gene will identify individuals who are affected or carriers of Fanconi anemia (FA-N), as well as who are at risk for hereditary breast and pancreatic cancer.</b>																												
Effective Date	11/3/2014																												
Test Code	92571																												
CPT Codes	81406, 81479																												
Specimen Requirements	4 mL (2 mL minimum) whole blood collected in an EDTA (lavender-top) tube																												
Reject Criteria	Gross hemolysis; clotted specimens																												
Instructions	Whole Blood: Normal phlebotomy procedure; specimen stability is crucial. Store and ship room temperature immediately. Do not freeze. Send report of results for family member with known BRCA mutation.																												
Transport Temperature	Room temperature																												
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86011537		PALB2 Del/Dup Interp																											
86011538		Comprehensive Interp																											
86011539		Additional Information																											

PTEN Sequencing and Deletion/Duplication	
Revision Message!	<b>Please note: The message was updated to remove the New York Patient Testing restriction effective 10/29/14.</b>



Clinical Significance	Defects in the PTEN gene are the main cause of Cowden disease which is characterized by hamartomatous polyps of the gastrointestinal tract, mucocutaneous lesions, and increased risk of developing neoplasms. Mutations in the PTEN gene is also associated with a lifetime breast cancer risk of 50%. Sequencing and deletion/duplication analyses of the PALB2 gene will identify individuals who are affected with Cowden disease as well as who are at risk for hereditary cancers.																													
Effective Date	11/3/2014																													
Test Code	92566																													
CPT Codes	81321, 81323																													
Specimen Requirements	4 mL (2 mL minimum) whole blood collected in an EDTA (lavender-top) tube																													
Reject Criteria	Gross hemolysis; clotted specimens																													
Instructions	Whole Blood: Normal phlebotomy procedure; specimen stability is crucial. Store and ship room temperature immediately. Do not freeze. Send report of results for family member with known BRCA mutation.																													
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STK11 Sequencing and Deletion/Duplication	
Revision Message!	Please note: The message was updated to remove the New York Patient Testing restriction effective 10/29/14.
Clinical Significance	Mutations in the STK11 (aka LKB1) gene causes Peutz-Jeghers syndrome (PJS) which is an autosomal dominant disorder with an increased risk of various neoplasms (especially gastrointestinal and breast cancers). Sequencing and deletion/duplication analyses of the STK11 gene will identify individuals who are affected with PJS as well as who are at risk for hereditary gastrointestinal and breast cancers.
Effective Date	11/3/2014
Test Code	92565
CPT Codes	81405, 81404

Specimen Requirements	4 mL (2 mL minimum) whole blood collected in an EDTA (lavender-top) tube																												
Reject Criteria	Gross hemolysis; clotted specimens																												
Instructions	Whole Blood: Normal phlebotomy procedure; specimen stability is crucial. Store and ship room temperature immediately. Do not freeze. Send report of results for family member with known BRCA mutation.																												
Transport Temperature	Room temperature																												
Specimen Stability	Room temperature and Refrigerated: 8 days Frozen: Unacceptable																												
Set-up/Analytic Time	Set up: Tues, Thurs, Sat; Report available: 14 days from completed pre-authorization																												
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TP53 Sequencing and Deletion/Duplication	
Revision Message!	Please note: The message was updated to remove the New York Patient Testing restriction effective 10/29/14.
Clinical Significance	Mutations in the TP53 gene leads to Li-Fraumeni syndrome (LFS) which is an inherited cancer syndrome with an early onset of tumors, multiple tumors within an individual, and multiple affected family members. The most common types of tumors are soft tissue sarcomas and osteosarcomas, breast cancer, brain tumors, leukemia, and adrenocortical carcinoma. Sequencing and deletion/duplication analyses of the TP53 gene will identify individuals who are affected with LFS and hereditary cancers.
Effective Date	11/3/2014
Test Code	92560
CPT Codes	81405, 81479
Specimen Requirements	4 mL (2 mL minimum) whole blood collected in an EDTA (lavender-top) tube
Reject Criteria	Gross hemolysis; clotted specimens
Instructions	Whole Blood: Normal phlebotomy procedure; specimen stability is crucial. Store and ship room temperature immediately. Do not freeze. Send report of results for family member with known BRCA mutation.
Transport Temperature	Room temperature
Specimen Stability	Room temperature and Refrigerated: 8 days

	<b>Frozen: Unacceptable</b>																													
Set-up/Analytic Time	<b>Set up: Tues, Thurs, Sat; Report available: 14 days from completed pre-authorization</b>																													
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