QCI Interpret One

Deliver oncologist-ready reports in minutes with clinically actionable evidence and recommendations

1 Provide a panel description and include summary comments of test results.

(2) Identify clinically significant variants with respect to potential treatments, variants with potential clinical significance and associated therapies, and variants with biological significance.

3 Notify oncologists of potential interactions.

4 Guide oncologists to the summary of relevant guidelines for patient management.

5 Provide a Table of Contents to orient oncologists for fast review.

Consulting physician		Patient		Sample		
Provider Physician Pathologist	General Hospital Dr. E Smith Dr. R Jones	Name Age Gender	Michelle Doe 58 Female	Accession Number 7-SP17-9111-B1- RNA_HighConfidence ants.zip		
Report Date	May 20, 2020	Diagnosis Stage	Breast carcinoma IV	Collection site Type Collection date	Breast Biopsy May 11, 2020	
Description of p Cancer Panel i Overall c	s a comprehensive genomic p omment	we need to tell the pati rofiling test designed to	ient / oncologist in order to introd o identify somatic mutations, cop	y numbers, fusions acros		
	esults: Positive	se note the interaction:	s of mutations on clinical outcom	e.		
1 Biomarker			Approved treatme	nts Other	s Other findings	
	on Burden: TMB-low (5.7 Muta					
	s of strong clinical sign	iticance, Tier 1	Approved treatme		findings	
ERBB2: ampl	ification, Pathogenic		DS-8201a Lapatinib	Resistar osimerti	nce: cetuximab, erlotinib inib	
			Neratinib	Trials: 3		
			Pertuzumab		Phase 2	
			Trastuzumab Trastuzumab emtansine		Early Phase 1	
PIK3CA: p.H1047R, Pathogenic			Alpelisib/fulvestrant	Resistar	nce: vemurafenib	
					Expanded Access	
					Phase 2 Phase 1/Phase 2	
					Phase 1	
	s of potential clinical si	gnificance, Tier 2	2 Approved treatme		findings	
	lification, Pathogenic		-	Trials: 3	Phase 2	
	18*, Pathogenic	T: 0	-		T: 0	
	s of biological significe	ince, lier 3	II Variants of un	certain significance	e, Tier 3	
	ification, Likely Pathogenic fication, Pathogenic					
† Allele Fractio	n (AF) >40%. AF suggests tha	it it may be germline ar	nd pathogenic or likely pathogeni	c. Recommend obtaining	g confirmatory germline te:	
	ns evant co-occurring variants ' section starting on page 2	are reported in the	4 Guidelines Potentially relevant guid starting on page 2.	lelines are reported in	the "guidelines" section	
Approva	I	(5 Report content			
-	D. Code		Result overview and app Guidelines and interactio Treatment options Available clinical trials Variant details		Paj Paj Paj Paj	

adjuvant chemotherapy plus trastuzumab, regardless of certain situations, regimens including pertuzumab, ado-list fulvestrant plus alpelisib as a preferred second-line ors harboring a PIK3CA mutation

decreased expression of Pten, has been associated with iation was found (Guarneri et al., 2015; 26245675, Cescon 9813, Chandarlapaty et al., 2012; 23092874, Sueta et al., 3092874, PMID:25542038].

jugate, is FDA-approved for treating adult patients with nti-HER2-based regimens in the metastatic setting.

do-trastuzumab Emtansine (T-DM1) for Subjects With

CA, CO, DE, FL, GA, IL, MD, MI, MO, NE, NJ, OR,

rial Information Support; clinicaltrials@seagen.com;

mutation

tein p110-alpha, which is the catalytic subunit of ray is involved in cell signaling that regulates a number of iferation, differentiation, motility, and survival [189, 56]. to P13K/Akt/mTOR pathway inhibitors, several of which In addition, the p110-alpha inhibitor alpelisib has been ausal women, and men, with PIK3CA-mutated, hormone tic breast cancer who experience disease progression on

reast cancer samples reported that positive p110-alpha de, larger tumor size, nodal involvement, and vascular lated with basal-like breast cancer, Her2-positive breast ditional studies have reported that p110-alpha-positivity, er samples [113, 166, 184]. A pooled analysis of 10319 that PIK3CA mutation was associated with ER positivity, K3CA mutations and activation of the P1K9 pathway may R-positive breast cancers, as well as to Her2-targeted hosme studies have reported no association between some studies have reported no association betw argeted therapies [62, 103, 155, 172, 236, 19, 122].

alteration that occurs in the kinase domain of the p110-ted hotspot mutation in the PIK3CA gene, and has been ated kinase activity, and oncogenic transformation in

I in 27% (4981/18180) of Breast carcinoma samples s have been reported in 27-48% of Breast carcinoma). Literature studies have reported PIX3CA mutations in 1, 249, 153, 148]. In addition, PIK3CA mutations have e breast cancer samples and in 9-14% of triple negative

6 Clearly convey the professional guideline evidence for each variant.

7 Inform on co-occurring variants with prognostic and diagnostic relevance and drug sensitivity and resistance.

8 List molecularly targeted therapies specific to your country for each clinically significant biomarker with the type and level of evidence supporting the selection.

9 Use oncologist-reviewed interpretive comments in three levels of detail (concise, intermediate, and complete) with variant-and diseasespecific information. including molecular function, and diagnostic, prognostic, and therapeutic relevance.