50368495, Peng (A1050686)

Patient MRN: N/A | DOB: FEB-03-1965 | Gender: Female Diagnosis: Gallbladder carcinoma | Test Number 1



Therapy Finder Page

REPORTING

Report Date: MAY-27-2024 Receipt Date: MAY-21-2024

Collection Date: MAY-20-2024

Specimen: Blood Status: FINAL PHYSICIAN

San-Chi Chen

Account: Genconn Biotech Co., LTD

Address: F15., No 207-5 Sec 3, Beixin Rd, Xindian

Dist, New Taipei City, 23143, Taiwan Ph: +886 963 820 633 | Fax: N/A

Additional Recipient: N/A



Complete Tumor Response Map on page 2

Summary of Detected Somatic Alterations, Immunotherapy Biomarkers & Associated Treatment Options

KEY ✓ Approved in indication Approved in other indication Lack of response

Detected Alteration(s) / Biomarker(s)	Associated FDA-approved therapies	Clinical trial availability (see page 3)	% cfDNA or Amplification
<i>ATM</i> R2832H	Olaparib, Talazoparib	Yes	0.4%

Synonymous Alterations

MAPK3 1272I (6.9%)

This sequence change does not alter the amino acid at this position and is unlikely to be a therapeutic target. Clinical correlation is advised.

Comments

Reported by: HM8

Additional Biomarkers

Biomarker	Additional Details
MSI-High	NOT DETECTED

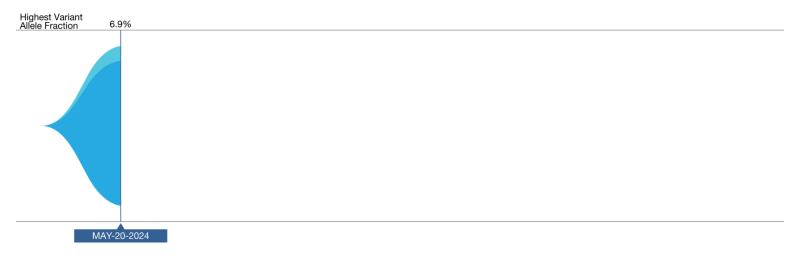




Tumor Biology Page

Guardant360 Tumor Response Map

The Guardant360 Tumor Response Map illustrates the variant allele fraction (% cfDNA) of observed somatic variants at each sample submission. Amplifications are not plotted, and only the first and last five test dates are plotted. Please see the Physician Portal (portal.guardanthealth.com) for the Tumor Response Map with all test dates.



Detected Alteration(s) / Biomarker(s)	% cfDNA or Amp	
MAPK3 12721	6.9%	Synonymous Alteration §
<i>ATM</i> R2832H	0.4%	

The table above annotates the variant allele fraction (% cfDNA) detected in this sample, listed in descending order. § See definitions section for more detail

DOB: FEB-03-1965 | Test Number 1



Clinical Trial Page

Available Clinical Trials (within the same state as the ordering physician)

There may be additional trials not listed here. Visit: portal.guardanthealth.com or email clientservices@guardanthealth.com with A1050686 in the subject line of the email, for additional trials.

Alteration	Trial ID / Contact	Title	Phase	Site(s)		
<i>ATM</i> R2832H	NCT04434482 Min Song,min.song@impacttherapeutics. com,021 68411121	IMP4297 in Combination With Temozolomide in Patients With Advanced Solid Tumors and Small Cell Lung Cancer	Phase 1 /Phase 2	Taipei, Taiwan Taoyuan, Taiwan Taichung, Taiwan Tainan, Taiwan (2)		
	NCT05269316 Xiangna Chen,xiangna. chen@impacttherapeutics.com,+86-021- 68411121	Study to Evaluate IMP9064 as a Monotherapy or in Combination in Patients With Advanced Solid Tumors	Phase 1	Taipei, Taiwan		
	NCT05489211 AstraZeneca Clinical Study Information Center,information.center@astrazeneca. com,1-877-240-9479	Study of Dato-Dxd as Monotherapy and in Combination With Anti-cancer Agents in Patients With Advanced Solid Tumours (TROPION-PanTumor03)	Phase 2	Taoyuan, Taiwan Liou Ying Township, Taiwan Taipei, Taiwan (3)		
	NCT05797168 AstraZeneca Clinical Study Information Center,information.center@astrazeneca. com,1-877-240-9479	Phase I/IIa Study for AZD5335 as Monotherapy and in Combination With Anti-cancer Agents in Participants With Solid Tumors	Phase 1 /Phase 2	Tainan City, Taiwan Taichung, Taiwan Taipei, Taiwan (2)		
	Visit portal.guardanthealth.com for trials not within the same state as the physician's office					

More clinical trial options available at portal.guardanthealth.com

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DOB: FEB-03-1965 | Test Number 1



Definitions

Synonymous Alteration: This sequence change does not alter the amino acid at this position and is unlikely to be a therapeutic target. Clinical correlation is advised.

Interpretation

Somatic alterations were detected in the circulating cell-free DNA isolated from this patient's blood specimen. These genomic alterations are cancer-associated somatic variants, some of which have been associated with either increased or reduced clinical response to specific treatments. The percentage of altered cell-free DNA circulating (% cfDNA) in blood is related to the unique tumor biology of each patient. Factors that may affect the % cfDNA of detected somatic alterations include tumor growth, turn over, size, heterogeneity, vascularization, disease progression, and treatment.





Method and Limitations

Guardant360 sequences 74 cancer-associated genes to identify somatic alterations. Cell-free DNA (cfDNA) is extracted from plasma, enriched for targeted regions, and sequenced using the Illumina platform and hg19 as the reference genome. All exons are sequenced in some genes; only clinically significant exons are sequenced in other genes. The types of genomic alterations detected by Guardant360 include single nucleotide variants, gene amplifications, fusions, short insertions/deletions (longest detected, 70 base pairs), and splice site disrupting events (see Table 1). Microsatellite Instability (MSI) is assessed for all cancer types by evaluating somatic changes in the length of repetitive sequences on the Guardant360 panel. A "Not Detected" result in samples where the highest % cfDNA is < 0.2% is an inconclusive result because it does not preclude MSI-High status in tissue. MSI status is currently not reported for earlier panel versions. This version of the Guardant360 test is not validated for the detection of other types of genomic alterations, such as complex rearrangements or gene deletions. Certain sample or variant characteristics, such as low cfDNA concentration, may result in reduced analytic sensitivity. Guardant360 cannot discern the source of circulating cfDNA, and for some variants in the range of ~40 to 60% cfDNA, the test cannot easily distinguish germline variants from somatic alterations. Guardant360 is not validated for the detection of germline or de novo variants that are associated with hereditary cancer risk. Tissue genotyping should be considered when plasma genotyping is negative, if clinically appropriate.

Table 1: Genes on the Guardant360 Panel

Guardant360 reports single nucleotide variants, splice site mutations, and insertion and deletion variants (indels) in all clinically relevant exons in 74 genes and reports other variant types in select genes as indicated below.

NTRK1 [#] NTRK3 PDGFRA [†] PIK3CA [†] PTEN PTPN11 RAF1 [†] RB1 RET [#] RHEB RHOA RIT1 ROS1 [#] SMAD4 SMO STK11 TERT [‡] TP53 TSC1 VHL	CTNNB1 I FGFR3 # C JAK2 MLH1 I NTRK1 # I								
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 $[\]ensuremath{\ddagger}$ Guardant360 reports alterations in the promoter region of this gene.

About the Test

The Guardant360 assay was developed and its performance characteristics were determined by Guardant Health, Inc. This test has not been cleared or approved by the U.S. Food and Drug Administration (FDA). The FDA has determined that such clearance or approval is not necessary. This test may be used for clinical purposes and should not be regarded as investigational or for research only. Guardant Health's clinical reference laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA) as qualified to perform high complexity clinical laboratory testing. The laboratory report should be interpreted in the context of other clinical information and laboratory, pathology, and imaging studies by a qualified medical professional prior to initiating or changing a patient's treatment plan. The selection of any, all, or none of the drugs associated with potential clinical benefit (or potential lack of clinical benefit) is entirely at the discretion of the treating medical professional. Drug and trial information are based on the diagnosis written on the submitted test request form; this information is not based on any supplemental information provided by the requesting medical professional, including pathology reports or other molecular studies. Some drugs listed in this report may not be approved or cleared by the FDA for the indicated use. Guardant Health makes no endorsement, express or implied, of any product, physician, or procedure contained in this report. This report makes no promises or guarantees that a particular medication will affect (or not affect) the clinical outcome of any patient.

Testing Performed at: Guardant Health

Laboratory Director: Martina Lefterova, MD PhD | CLIA ID: 05D2070300 | CAP #: 8765297 | 505 Penobscot Drive, Redwood City, CA, 94063, USA



[#] Guardant360 reports fusion events involving this gene.

[†] Guardant360 reports amplifications of this gene.

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DOB: FEB-03-1965 | Test Number 1



Additional information is available

Any therapeutic annotations are based on publicly available information. This information is described in the "Detailed Therapy Results" and "Relevance of Detected Alterations" sections.

Visit portal.guardanthealth.com or email clientservices@guardanthealth.com with A1050686 in the subject line of the email for:

Additional clinical trials

Relevance of Detected Alterations

Detailed Therapy Results

- References

If you would like to receive this additional information with every Guardant360 report, please call client services at 855.698.8887 to opt-in.



DOB: FEB-03-1965 | Test Number 1



Additional Information

Additional information begins on the next page.



List of Available Clinical Trials

Alteration	Trial ID / Contact	Title	Phase	Site (number in parenthesis is count of trial sites)
<i>ATM</i> R2832H	NCT02925234 E.E. Voest, prof.,DRUP@nki.nl, 0031205129111	The Drug Rediscovery Protocol (DRUP Trial)	Phase 2	Netherlands (35)
	NCT03742895 Toll Free Number,Trialsites@merck.com, 1-888-577-8839	Efficacy and Safety of Olaparib (MK-7339) in Participants With Previously Treated, Homologous Recombination Repair Mutation (HRRm) or Homologous Recombination Deficiency (HRD) Positive Advanced Cancer (MK-7339-002 / LYNK-002)	Phase 2	Harrison, NY; Seattle, WA; New York, NY; Baltimore, MD; Middletown, NJ; Colombia; Argentina; United Kingdom; Canada; Ireland; Denmark; Israel; Australia; Spain (2); Turkey (7); Korea, Republic of (2); Guatemala (4); Mexico (2); France (2); Peru (5)
	NCT04042831 See https://clinicaltrials.gov/ct2/show /NCT04042831	Olaparib in Treating Patients With Metastatic Biliary Tract Cancer With Aberrant DNA Repair Gene Mutations	Phase 2	Houston, TX; Rochester, MN; Scottsdale, AZ; New York, NY
	NCT04434482 Min Song,min.song@impacttherapeutics. com,021 68411121	IMP4297 in Combination With Temozolomide in Patients With Advanced Solid Tumors and Small Cell Lung Cancer	Phase 1 /Phase 2	Evergreen Park, IL; Canton, OH; Columbus, OH; Tennessee, TN; China (4); Taiwan (5); Korea, Republic of (4); Australia (4)
	NCT04657068 Sarah Cannon Development Innovations, SCRI.InnovationsMedical@scri.com,844- 710-6157	A Study of ART0380 for the Treatment of Advanced or Metastatic Solid Tumors	Phase 1 /Phase 2	Denver, CO; Oklahoma City, OK; Philadelphia, PA; West Palm Beach, FL; Fort Myers, FL; Dallas, TX; Birmingham, AL; Sarasota, FL; Nashville, TN; Little Rock, AR; Fairfax, VA; Chattanooga, TN; France; United Kingdom (3); Spain (18)
	NCT05222971 Changhoon Yoo,yooc@amc.seoul.kr, +821099006798	Olaparib With or Without Durvalumab for DDR Gene Mutated Biliary Tract Cancer Following Platinum-based Chemotherapy	Phase 2	Korea, Republic of
	NCT05269316 Xiangna Chen,xiangna. chen@impacttherapeutics.com,+86-021- 68411121	Study to Evaluate IMP9064 as a Monotherapy or in Combination in Patients With Advanced Solid Tumors	Phase 1	Greenville, SC; New York, NY; Dallas, TX; Hackensack, NJ; China; Taiwan; Australia (2)
	NCT05489211 AstraZeneca Clinical Study Information Center,information.center@astrazeneca. com,1-877-240-9479	Study of Dato-Dxd as Monotherapy and in Combination With Anti-cancer Agents in Patients With Advanced Solid Tumours (TROPION-PanTumor03)	Phase 2	Los Angeles, CA; Albuquerque, NM; Houston, TX; Santa Rosa, CA; Madison, WI; East Brunswick, NJ; Boston, MA; Grand Rapids, MI; Commack, NY; Cincinnati, OH; Columbus, OH; Muncie, IN; Nashville, TN; Canada (3); Turkey (7); Japan (6); China (8); Taiwan (5); Poland (3); Korea, Republic of (4); United Kingdom (5); Italy (3); France (3); Spain (6)
	NCT05797168 AstraZeneca Clinical Study Information Center,information.center@astrazeneca. com,1-877-240-9479	Phase I/IIa Study for AZD5335 as Monotherapy and in Combination With Anti-cancer Agents in Participants With Solid Tumors	Phase 1 /Phase 2	Houston, TX; Duarte, CA; Louisville, KY; Boston, MA; Columbus, OH; Irvine, CA; Portland, OR; Aurora, CO; Providence, RI (2); Canada (5); Japan (2); China (5); Taiwan (4); United Kingdom (4); Israel (2); Australia (2); Spain (4)



Detailed Therapy Results

Alteration	Drug Tra	de Name Target	Cu	rrent Status		
<i>ATM</i> R2832H	AMXI-5001		Dual PARP1/2 and microtubule polymerization inhibitor.	Phase 2 (Solid Tumor)		
	ART0380		Atr inhibitor.	Phase 2 (Solid Tumor) Phase 2 (Brain and Central Nervous System Tumors)		
	ATG-018		Atr inhibitor.	Phase 1 (Solid Tumor) Phase 1 (Marginal zone lymphoma (MZL), Diffuse large B-cell lymphoma (DLBCL))		
	ATRN-119		Atr inhibitor.	Phase 2 (Solid Tumor) Phase 2 (Brain and Central Nervous System Tumors)		
	AZD9574		PARP1 inhibitor (brain penetrant).	Phase 2 (Glioma, Pancreatic carcinoma, Prostate carcinoma, Ovarian carcinoma, Breast carcinoma)		
	Berzosertib		Atr inhibitor.	Phase 1 (Solid Tumor) Phase 2 (Gastric carcinoma, Neuroendocrine carcinoma, Small cell carcinoma, Osteosarcoma, Nonsmall cell lung carcinoma (NSCLC), Prostate carcinoma, Ovarian carcinoma, Small cell lung carcinoma (SCLC), Gastroesophageal junction carcinoma, Urothelial carcinoma, Bladder carcinoma, Leiomyosarcoma, Renal pelvis carcinoma, Lung cancer)		
	Camonsertib		Atr inhibitor.	Phase 1 (Solid Tumor) Phase 1 (Brain and Central Nervous System Tumors)		
	Ceralasertib		Atr inhibitor.	Phase 2 (Gallbladder carcinoma) Phase 3 (Non-small cell lung carcinoma (NSCLC), Lung cancer)		
	Elimusertib		Atr inhibitor.	Phase 1 (Solid Tumor) Phase 1 (Head and neck squamous cell carcinoma (HNSCC))		
	Fluzoparib		PARP inhibitor.	Phase 1 (Solid Tumor) Phase 3 (Pancreatic carcinoma, Ovarian carcinoma, Breast carcinoma)		
	IDX-1197		PARP inhibitor.	Phase 2 (Solid Tumor) Phase 2 (Brain and Central Nervous System Tumors)		
	IMP9064		Atr inhibitor.	Phase 1 (Solid Tumor)		
	Niraparib	Zejula	PARP inhibitor.	Phase 1 (Solid Tumor) FDA Approved in other indications (Prostate carcinoma with BRCA1/2 mutation, Ovarian carcinoma with BRCA1/2 mutation)		
	Nivolumab+ipilimum	nab Opdivo+Yervoy	Anti-PD-1 monoclonal antibody + anti-CTLA-4 monoclonal antibody combination.	Phase 2 (Gallbladder carcinoma) FDA Approved in other indications (NSCLC with high PD-L1 expression, Hepatocellular carcinoma (HCC), Melanoma, Non-small cell lung carcinoma (NSCLC), Renal cell carcinoma, Esophageal squamous cell carcinoma, CRC with MSI-H or dMMR, Mesothelioma)		
	NMS-03305293		PARP inhibitor.	Phase 1 (Solid Tumor) Phase 2 (Glioblastoma)		
	Olaparib	Lynparza	PARP inhibitor.	Phase 2 (Gallbladder carcinoma) FDA Approved in other indications (Pancreatic adenocarcinoma with germline BRCA1/2		



Detailed Therapy Results

Alteration	Drug	Trade Name	Target	Current Status
				mutation, Prostate cancer with HRR gene mutation, Ovarian carcinoma with BRCA1/2 mutation, Breast carcinoma with germline BRCA1/2 mutation)
	Pamiparib		PARP inhib	itor. Phase 1 (Solid Tumor) Phase 3 (Gastric carcinoma, Gastroesophageal junction carcinoma)
	RP12146		PARP inhib	itor. Phase 1 (Gastric carcinoma, Pancreatic carcinoma, Prostate carcinoma, Endometrial carcinoma, Ovarian carcinoma, Small cell lung carcinoma (SCLC), Breast carcinoma, Cholangiocarcinoma, Colorectal carcinoma (CRC))
	Rucaparib	Rubraca	a PARP inhib	itor. Phase 2 (Gallbladder carcinoma) FDA Approved in other indications (Prostate carcinoma with BRCA1/2 mutation, Ovarian carcinoma)
	Saruparib		PARP1 inhi	bitor. Phase 2 (Solid Tumor)
	Senaparib		PARP inhib	itor. Phase 1 (Solid Tumor) Phase 2 (Small cell lung carcinoma (SCLC))
	Stenoparib		PARP inhib	itor. Phase 1 (Pancreatic carcinoma, Non-small cell lung carcinoma (NSCLC), Endometrial carcinoma, Ovarian carcinoma, Breast carcinoma, Colorectal carcinoma (CRC))
	Talazoparib	Talzenn	a PARP inhib	itor. Phase 1 (Solid Tumor) FDA Approved in other indications (Prostate cancer with HRR gene mutation, Breast carcinoma with germline BRCA1/2 mutation)
	Tuvusertib		Atr inhibito	Phase 1 (Solid Tumor) Phase 2 (Merkel cell carcinoma, Non-small cell lung carcinoma (NSCLC), Prostate carcinoma, Endometrial carcinoma, Ovarian carcinoma, Colorectal carcinoma (CRC))
	Veliparib		PARP inhib	itor. Phase 1 (Gallbladder carcinoma) Phase 3 (Glioblastoma, Non-small cell lung carcinoma (NSCLC), Ovarian carcinoma, Ovarian carcinosarcoma, Breast carcinoma, Lung cancer)



Relevance of Detected Alterations

Alteration Role in Disease **Effect on Drug Sensitivity** Effect on Drug Resistance **ATM** ATM deficiency in cells has been Based on preclinical and clinical R2832H reported to result in progression evidence, ATM-deficient tumors may be sensitive to poly(ADP-ribose) polymerase (PARP) inhibitors, Atr inhibitors, and DNA-PKcs inhibitors, through the cell cycle even in the presence of DNA damage, resulting in the accumulation of DNA errors and genomic instability that can lead to which are under investigation in clinical cancer. (1) trials. PARP inhibitors have been approved in multiple indications in the context of mutations in homologous recombination repair genes. (2-8). The PARP inhibitor olaparib has been approved by the FDA for castrationresistant adult prostate cancer patients with tumors harboring germline or somatic alteration in one or more homologous recombination repair genes, including ATM mutation. (9-17). In addition, talazoparib in combination with enzalutamide has been FDAapproved for the treatment of metastatic castration-resistant prostate cancer patients with tumors harboring germline or somatic alteration in one or more homologous recombination repair genes, including ATM mutation.

DOB: FEB-03-1965 | Test Number 1



Additional Information

References

- 1. Shiloh Y "ATM and related protein kinases: safeguarding genome integrity." Nature reviews. Cancer(2003): 155-68
- 2. Peng G, Lin S "Exploiting the homologous recombination DNA repair network for targeted cancer therapy." World journal of clinical oncology(2011): 73-9
- 3. Weston V, Oldreive C, Skowronska A, Oscier D, Pratt G, Dyer M, Smith G, Powell J, Rudzki Z, Kearns P, Moss P, Taylor A, Stankovic T "The PARP inhibitor olaparib induces significant killing of ATM-deficient lymphoid tumor cells in vitro and in vivo." Blood(2010): 4578-87
- 4. Riabinska A, Daheim M, Herter-Sprie G, Winkler J, Fritz C, Hallek M, Thomas R, Kreuzer K, Frenzel L, Monfared P, Martins-Boucas J, Chen S, Reinhardt H "Therapeutic targeting of a robust non-oncogene addiction to PRKDC in ATM-defective tumors." Science translational medicine(2013): 189ra78
- 5. Menezes D, Holt J, Tang Y, Feng J, Barsanti P, Pan Y, Ghoddusi M, Zhang W, Thomas G, Holash J, Lees E, Taricani L "A synthetic lethal screen reveals enhanced sensitivity to ATR inhibitor treatment in mantle cell lymphoma with ATM loss-of-function." Molecular cancer research: MCR(2015): 120-9
- 6. Vendetti F, Lau A, Schamus S, Conrads T, O'Connor M, Bakkenist C "The orally active and bioavailable ATR kinase inhibitor AZD6738 potentiates the anti-tumor effects of cisplatin to resolve ATM-deficient non-small cell lung cancer in vivo." Oncotarget(2015): 44289-305
- 7. Schmitt A, Knittel G, Welcker D, Yang T, George J, Nowak M, Leeser U, Büttner R, Perner S, Peifer M, Reinhardt H "ATM Deficiency Is Associated with Sensitivity to PARP1- and ATR Inhibitors in Lung Adenocarcinoma." Cancer research(2017): 3040-3056
- 8. Perkhofer L, Schmitt A, Romero Carrasco M, Ihle M, Hampp S, Ruess D, Hessmann E, Russell R, Lechel A, Azoitei N, Lin Q, Liebau S, Hohwieler M, Bohnenberger H, Lesina M, Algül H, Gieldon L, Schröck E, Gaedcke J, Wagner M, Wiesmüller L, Sipos B, Seufferlein T, Reinhardt H, Frappart P, Kleger A "ATM Deficiency Generating Genomic Instability Sensitizes Pancreatic Ductal Adenocarcinoma Cells to Therapy-Induced DNA Damage." Cancer research(2017): 5576-5590
- 9. Ledermann J, Harter P, Gourley C, Friedlander M, Vergote I, Rustin G, Scott C, Meier W, Shapira-Frommer R, Safra T, Matei D, Macpherson E, Watkins C, Carmichael J, Matulonis U "Olaparib maintenance therapy in platinum-sensitive relapsed ovarian cancer." The New England journal of medicine(2012): 1382-92
- 10. Kim G, Ison G, McKee A, Zhang H, Tang S, Gwise T, Sridhara R, Lee E, Tzou A, Philip R, Chiu H, Ricks T, Palmby T, Russell A, Ladouceur G, Pfuma E, Li H, Zhao L, Liu Q, Venugopal R, Ibrahim A, Pazdur R "FDA Approval Summary: Olaparib Monotherapy in Patients with Deleterious Germline BRCA-Mutated Advanced Ovarian Cancer Treated with Three or More Lines of Chemotherapy." Clinical cancer research: an official journal of the American Association for Cancer Research(2015): 4257-61
- 11. Swisher E, Lin K, Oza A, Scott C, Giordano H, Sun J, Konecny G, Coleman R, Tinker A, O'Malley D, Kristeleit R, Ma L, Bell-McGuinn K, Brenton J, Cragun J, Oaknin A, Ray-Coquard I, Harrell M, Mann E, Kaufmann S, Floquet A, Leary A, Harding T, Goble S, Maloney L, Isaacson J, Allen A, Rolfe L, Yelensky R, Raponi M, McNeish I "Rucaparib in relapsed, platinum-sensitive high-grade ovarian carcinoma (ARIEL2 Part 1): an international, multicentre, open-label, phase 2 trial." The Lancet. Oncology (2017): 75-87
- 12. Balasubramaniam S, Beaver J, Horton S, Fernandes L, Tang S, Horne H, Liu J, Liu C, Schrieber S, Yu J, Song P, Pierce W, Robertson K, Palmby T, Chiu H, Lee E, Philip R, Schuck R, Charlab R, Banerjee A, Chen X, Wang X, Goldberg K, Sridhara R, Kim G, Pazdur R "FDA Approval Summary: Rucaparib for the Treatment of Patients with Deleterious BRCA Mutation-Associated Advanced Ovarian Cancer." Clinical cancer research: an official journal of the American Association for Cancer Research(2017): 7165-7170.
- 13. Coleman R, Oza A, Lorusso D, Aghajanian C, Oaknin A, Dean A, Colombo N, Weberpals J, Clamp A, Scambia G, Leary A, Holloway R, Gancedo M, Fong P, Goh J, O'Malley D, Armstrong D, Garcia-Donas J, Swisher E, Floquet A, Konecny G, McNeish I, Scott C, Cameron T, Maloney L, Isaacson J, Goble S, Grace C, Harding T, Raponi M, Sun J, Lin K, Giordano H, Ledermann J "Rucaparib maintenance treatment for recurrent ovarian carcinoma after response to platinum therapy (ARIEL3): a randomised, double-blind, placebo-controlled, phase 3 trial." Lancet (London, England)(2017): 1949-1961
- 14. Robson M, Im S, Senkus E, Xu B, Domchek S, Masuda N, Delaloge S, Li W, Tung N, Armstrong A, Wu W, Goessl C, Runswick S, Conte P "Olaparib for Metastatic Breast Cancer in Patients with a Germline BRCA Mutation." The New England journal of medicine(2017): 523-533
- 15. Robson M, Tung N, Conte P, Im S, Senkus E, Xu B, Masuda N, Delaloge S, Li W, Armstrong A, Wu W, Goessl C, Runswick S, Domchek S "OlympiAD final overall survival and tolerability results: Olaparib versus chemotherapy treatment of physician's choice in patients with a germline BRCA mutation and HER2-negative metastatic breast cancer." Annals of oncology: official journal of the European Society for Medical Oncology(2019): 558-566
- 16. Golan T, Hammel P, Reni M, Van Cutsem E, Macarulla T, Hall M, Park J, Hochhauser D, Arnold D, Oh D, Reinacher-Schick A, Tortora G, Algül H, O'Reilly E, McGuinness D, Cui K, Schlienger K, Locker G, Kindler H "Maintenance Olaparib for Germline BRCA-Mutated Metastatic Pancreatic Cancer." The New England journal of medicine (2019): 317-327
- 17. Abida W, Patnaik A, Campbell D, Shapiro J, Bryce A, McDermott R, Sautois B, Vogelzang N, Bambury R, Voog E, Zhang J, Piulats J, Ryan C, Merseburger A, Daugaard G, Heidenreich A, Fizazi K, Higano C, Krieger L, Sternberg C, Watkins S, Despain D, Simmons A, Loehr A, Dowson M, Golsorkhi T, Chowdhury S "Rucaparib in Men With Metastatic Castration-Resistant Prostate Cancer Harboring a BRCA1 or BRCA2 Gene Alteration." Journal of clinical oncology: official journal of the American Society of Clinical Oncology(2020): 3763-3772
- 18. "A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY OF TALAZOPARIB WITH ENZALUTAMIDE IN METASTATIC CASTRATION-RESISTANT PROSTATE CANCER" (2023)
- 19. Agarwal N, Azad A, Carles J, et al. "TALAPRO-2: Phase 3 study of talazoparib (TALA) + enzalutamide (ENZA) versus placebo (PBO) + ENZA as first-line (1L) treatment in patients (pts) with metastatic castration-resistant prostate cancer (mCRPC)." J Clin Oncol(2023): LBA17
- 20. Agarwal N, Azad A, Carles J, Fay A, Matsubara N, Heinrich D, Szczylik C, De Giorgi U, Young Joung J, Fong P, Voog E, Jones R, Shore N, Dunshee C, Zschäbitz S, Oldenburg J, Lin X, Healy C, Di Santo N, Zohren F, Fizazi K "Talazoparib plus enzalutamide in men with first-line metastatic castration-resistant prostate cancer (TALAPRO-2): a randomised, placebo-controlled, phase 3 trial." Lancet (London, England)(2023): 291-303