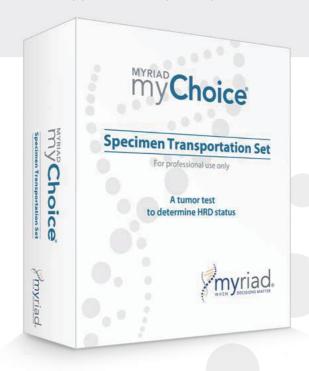
### myChoice® HRD can inform treatment decisions

#### myChoice® HRD Intended Use

Myriad myChoice® HRD is used to detect Homologous Recombination Deficiency (HRD) by assessing Genomic Instability Status and Tumor Mutation Status in genomic DNA extracted from tumor specimens. This test may aid in identifying patients with positive HRD and should be used in accordance with the approved therapeutic product labeling.



The assay used for myChoice® HRD is the identical analytical assay used with the FDA approved myChoice® CDx. myChoice® CDx is the only FDA approved companion diagnostic assay for determination of both tumor BRCA1/2 status and Genomic Instability status in the US.

## myriad Choice HRD

# The most comprehensive tumor test to determine HRD status

myChoice® is the only approved HRD assay to guide PARPi decision-making



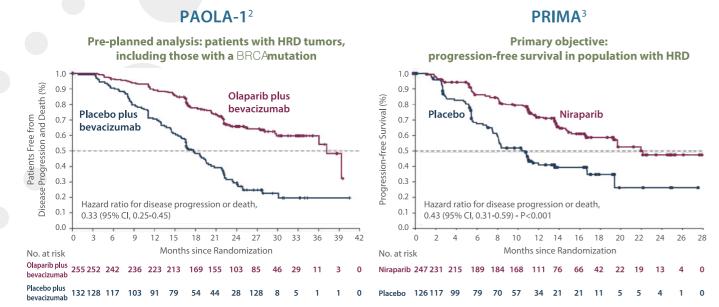
Myriad Genetics GmbH Leutschenbachstrasse 95 8050 Zurich Switzerland www.myriadgenetics.eu





### First-line treatment decisions are **crucial** for women's life expectancy

The introduction of PARP inhibitor maintenance therapy to the first-line treatment strategy provides an opportunity to extend the longest PFS interval.<sup>1-3</sup>



myChoice® identifies the most appropriate patients for this first-line decision.

### GIS is the only HRD assay with front-line PARPi evidence beyond BRCA

Validated in over 3,200 ovarian cancer patients in Phase III trials myChoice® has been the test of choice in 4 Phase III ovarian cancer trials for PARP inhibitors.

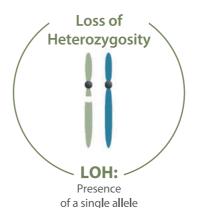
There are an additional 4 currently underway in 2,475 patients.

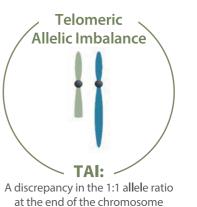
Phase III Trial	PARPi	Study Status	n	Treatment setting
PAOLA-1	Olaparib	Published	806	First-line
PRIMA	Niraparib	Published	733	First-line
VELIA	Veliparib	Published	1140	First-line
NOVA	Niraparib	Published	553	Recurrent
FIRST	Niraparib	Maturing	912	First-line
OPINION (IIIb)	Olaparib	Maturing	279	Recurrent
DUO-O	Olaparib	Recruiting	1056	First-line
OreO (IIIb)	Olaparib	Recruiting	228	Recurrent

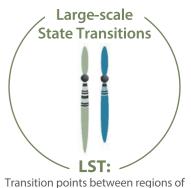
1. Giornelli GH 2016 2. Ray-Coquard et al 2019 3. Gonzalez-Martin et al 2019.

Not for distribution in the US.

### myChoice® Genomic Instability Score (GIS) measures three HRD biomarkers (LOH, TAI, LST)



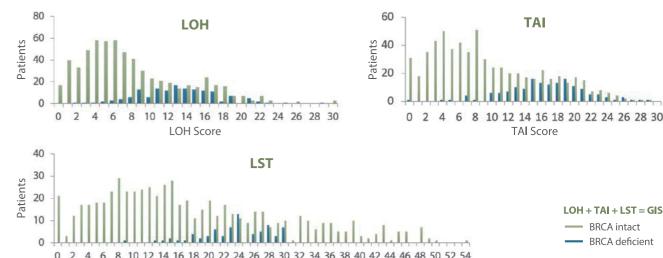




abnormal and normal DNA or between two different regions of abnormality

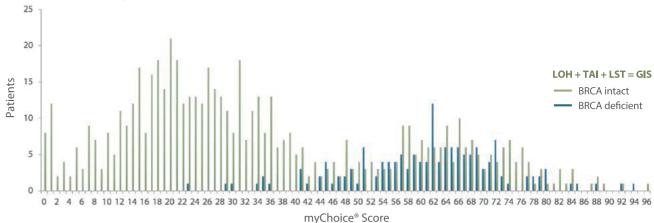
### Individual biomarkers are unable to differentiate GIS positive from negative and create a bell-curve<sup>1</sup>

(telomere)



### The combination of three biomarkers generates a bimodal distribution

There is a high-scoring (HRD positive) and low-scoring (HRD-negative) group represented by the two peaks.

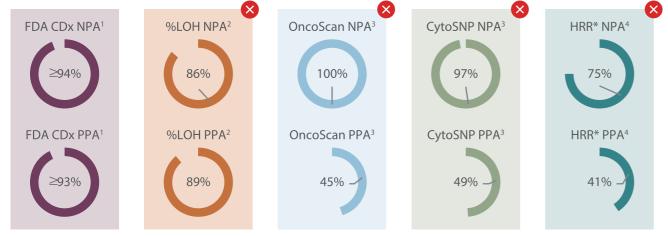


1. Mills et al SGO 2016

Not for distribution in the US.

### Potential alternative Companion Diagnostics fail to reach FDA requirements for being CDx

Where a new CDx lacks clinical evidence, FDA indicates the assay needs to be highly correlated with the original CDx. The specifications in purple reflect the minimum requirements based on the reproducibility of myChoice® HRD. New tests need to exceed both NPA and PPA minimum standards.



<sup>\*</sup>Comparison of 16 non-BRCA HRR genes vs BRCAwt PAOLA-1 patients

Each alternative HRD assay would lead to substantially less accurate treatment of patients when compared to myChoice®. Tests analysing LOH, TAI, LST (OncoScan and CytoSNP) also fail correlation.<sup>3</sup>

#### HRD tests are not equivalent

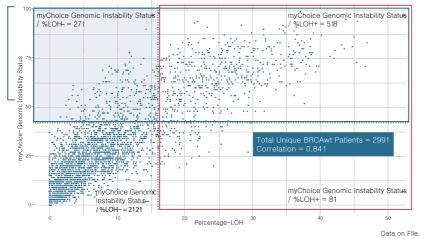
### Don't miss treatable patients with uncorrelated assays.

A study of 3,278 ovarian tumors compares Myriad's proprietary Genomic Instability Status (GIS) and %LOH. In the 2,991 BRCAwt patients in the study, results between the two assays had a correlation = 0.841.

#### myChoice® identified ~32% more tumors with HRD.

According to the Phase III trials PAOLA-1, PRIMA and VELIA, this patient group had significant PFS improvement compared to the control arm. Following %LOH in this study would have left these patients untreated.

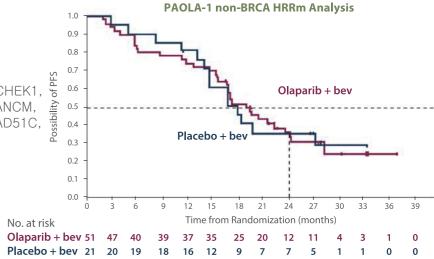




### Non-BRCA HRRm are not interchangeable with GIS and should not be considered substitutes

As previously described by Nordquist et al 2018, non-BRCA HRR mutations are very uncommon. In this PAOLA-1 exploratory analysis, non-BRCA HRR mutations were not predictive of improved PFS.<sup>1</sup>

Expanded 18-gene panel analyzed:
ATM, BARD1, BLM, BRIP1, CDK12, CHEK1, CHECK2, FANCA, FANCI, FANCL, FANCM, NBN, PALB2, PPP2R2A, RAD51B, RAD51C, RAD51D, RAD54L



### my Choice HRD

#### **Prospectively Validated**<sup>2,3,4,5</sup>

Trusted assay for multiple clinical trials by pharmaceutical partners

#### **Clinically Actionable Results**

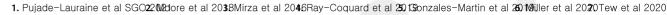
Identifies patients eligible for treatment with PARP inhibitors

#### **International Guidelines**

Include recommendations for myChoice® testing for ovarian cancer<sup>6,7</sup>

#### **Fast TAT**

myChoice® HRD delivers accurate results in approx. 14 working days after sample receipt



### myChoice® is recommended by clinical guidelines

myChoice® is the only HRD test with Level 1A evidence for first-line PARPi maintenance



### European Society of Medical Oncology

"In the first-line maintenance setting...use a validated scar based HRD test to establish the magnitude of benefit conferred by PARPi use" 1

ESMO recognizes myChoice® is the only scar based HRD test validated in the first-line maintenance setting



### American Society of Clinical Oncology

"The addition of olaparib to bevacizumab maintenance may be offered to patients who have stage III-IV HGS or endometriod ovarian cancer and germline or somatic pathogenic or likely pathogenic variants in BRCA1 or BRCA2 genes and/or genomic instability, as determined by Myriad myChoice® CDx"<sup>2</sup>



#### National Comprehensive Cancer Network®

"Germline and/or somatic BRCA
1/2 status informs selection of
maintenance therapy...
In the absence of a BRCA
1/2 mutation, homologous
recombination deficiency (HRD)
status may provide information on
the magnitude of benefit of PARP
inhibitor maintenance therapy" 3

### International regulatory approvals for myChoice®



**FDA PMA** myChoice® CDx results are used as an aid in identifying ovarian cancer patients with positive HRD status, who are eligible, because of a positive test result in *BRCA1* or *BRCA2* genes or a positive Genomic Instability Score, for treatment with olaparib or niraparib in accordance with the approved therapeutic product labeling.



**PMDA PMA** myChoice® CDx is used to detect HRD by assessing GIS and *BRCA1/2* gene mutations in genomic DNA extracted from tumor specimens. Results are used as an aid to determine the eligibility of patients with ovarian cancer for niraparib monotherapy treatment or olaparib in combination with bevacizumab treatment. Eligibility of patients for olaparib monotherapy treatment should be based on *BRCA1/2* gene mutations only.



**CE Mark** myChoice® CDx PLUS is used to detect HRD by assessing the GIS Status and tumor *BRCA1/2* Status in genomic DNA extracted from tumor specimens. Results are used as an aid to determine the eligibility of patients with ovarian cancer for treatment with certain PARPi in accordance with the approved therapeutic product labeling.



When ordered as a panel, sequencing and large rearrangement analyses are also performed on all analyzable regions of the following genes that have been analytically validated using multiple cancer types: ATM, BARD1, BRIP1, CDK12, CHEK1, CHEK2, FANCL, PALB2, PPP2R2A, RAD51B, RAD51C, RAD51D, and RAD54L.

1. Miller et al 2020 2. Tews et al 2020 3. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines\*) for Ovarian Cancer V.1.2021. © National Comprehensive Cancer Network, Inc. 2021. All rights reserved. Accessed May 7, 2021.

To view the most recent and complete version of the guidelines, go online to NCCN.org.

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#### **BLOCKS ARE PREFERRED OVER SLIDES WHENEVER POSSIBLE**

#### FOR SLIDES:

1. Please select a formalin-fixed paraffin-embedded tumor block that contains ≥40 microns of tumor. The block should contain ideally ≥30% tumor by pathologic review with a minimum of 20%.

2.Cut and label one 5 micron section for H&E staining on a charged slide.Cut and label 5 micron

Cut and label 5 micron sections on uncharged slides according to the table at right:

Area of tumor (mm²)	# of 5 µm unstained slides
20-25	8
15-19	12
10-14	16
5-9	20

3. Include Test Request Form (TRF) and Pathology Report in

