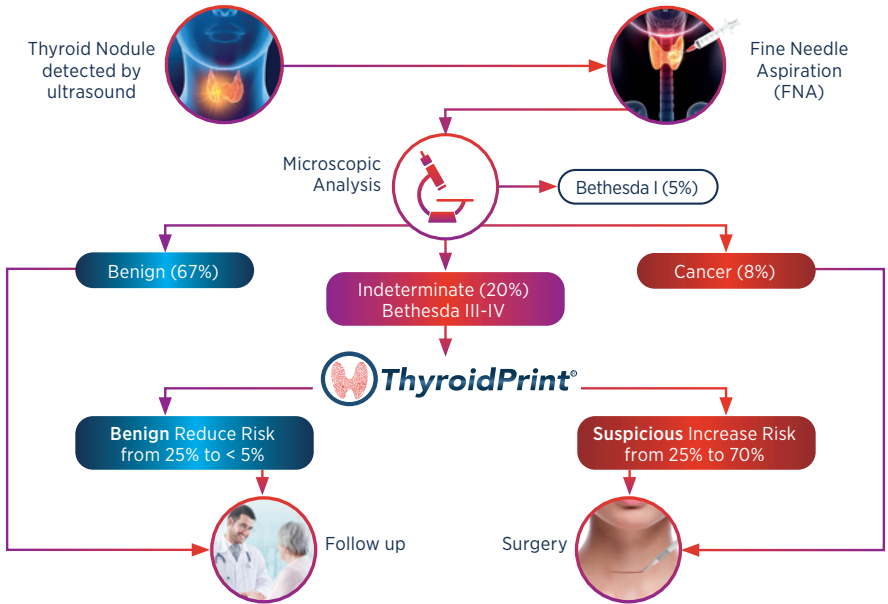**ThyroidPrint®**
Resolve Your Uncertainty

#KeepYourThyroid #DesignedToPredictBenign

The Thyroid Genetic Classifier to safely forgo unnecessary diagnostic thyroid surgery for indeterminate cytology

Up to 20% of thyroid nodule FNA biopsies are reported as indeterminate (Bethesda III/IV) following cytological examination. These nodules are managed through diagnostic surgery which is the standard approach. After surgery, up to 75% of these nodules are determined to be benign.[1] ThyroidPrint® reclassifies nodules as either benign or suspicious of malignancy, aiding decision-making, avoiding patients to undergo unnecessary surgeries, and reducing healthcare costs.

ThyroidPrint® clinical pathway in case of thyroid nodule detection

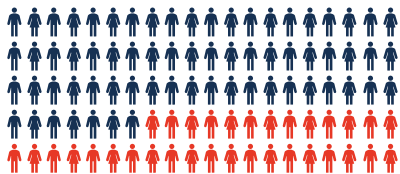**ThyroidPrint® accurately classifies indeterminate thyroid nodules with 95% NPV[2,3]**

Thyroid Nodule detected by ultrasound

Fine Needle Aspiration (FNA)

Microscopic Analysis

Bethesda I (5%)

Benign (67%)

Indeterminate (20%) Bethesda III-IV

Cancer (8%)

ThyroidPrint®

Benign Reduce Risk from 25% to < 5%

Suspicious Increase Risk from 25% to 70%

Follow up

Surgery

ThyroidPrint® Clinical Utility Study reduces unnecessary surgery by 67%[4]

Without ThyroidPrint®

With ThyroidPrint®

SURGERY

AVOID SURGERY

Idylla™ ThyroidPrint® Assay**

First-in-class cartridge-based Assay
for indeterminate thyroid nodules
For Research Use Only, assay currently under development

Idylla™ ThyroidPrint® Assay**

qPCR of 10 genes
in a diagnostic kit

+

Proprietary algorithm analysis

=

ThyroidPrint **Score**
Reported as either **'High'** or **'Low'**

CXCR3, CXCL10, CCR3, CCR7, CXADR
+
TIMP1, CLDN1, KRT19
+
AFAP1L2, HMOX1

Tumor Inflammatory microenvironment Genes

Tumor Epithelial Genes

Stabilizing Genes

Unique sample-to-insight seamless workflow

Scan
Sample & Cartridge

Insert Sample
in the Cartridge

Insert Cartridge in the Idylla™ Platform
and obtain the result within 3 hours

(1) Haugen et al., 2015 American Thyroid Association Management guidelines for adult patients. Thyroid, 2016
(2) Gonzalez et al., A 10-Gene Classifier for Indeterminate Thyroid Nodules: Development and Multicenter Accuracy Study. Thyroid, 2017
(3) Zafereo et al., A Thyroid Genetic Classifier Correctly Predicts Benign Nodules with Indeterminate Cytology: Two Independent, Multicenter, Prospective Validation Trials. Thyroid, 2020
(4) Olmos et al., ThyroidPrint®: clinical utility for indeterminate thyroid cytology. End Rel Cancer, 2023

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GENEPRODX
Transforming Precision Medicine

BIOCARTIS

Biocartis NV
Generaal De Wittelaan 11B
2800 Mechelen - Belgium
+32 15 632 888

Follow us on f � twitter in

www.biocartis.com
customerservice@biocartis.com