



Second Study Affirms Superiority of iMDx GraftAssure Assay's Proprietary dd-cfDNA Combination Model Score

Mar 13, 2026

- **New data supports GraftAssure commercialization efforts**
- **Multi-center study featured 249 biopsy-matched patients**
- **Proprietary “Combination Model” score outperformed percentage-only measures of dd-cfDNA**
- **Reinforces data presented at World Transplant Congress in 2025**

NASHVILLE, Tenn., March 13, 2026 (GLOBE NEWSWIRE) -- Insight Molecular Diagnostics Inc. (Nasdaq: IMDX) (“iMDx”) today highlighted the [publication](#) of a new peer-reviewed study demonstrating the potential superiority of the company’s flagship GraftAssure™ assay technology.

The study, published in *Transplant International*, and titled “Donor-Derived Cell-Free DNA as a Non-Invasive Readout of Activity Across the Rejection Continuum,” was conducted by investigators from Heidelberg University Hospital and Charité – Universitätsmedizin Berlin and included iMDx scientist authors.

This new study, combined with [data presented](#) at World Transplant Congress in 2025, point to growing clinical differentiation and marketability of the GraftAssure technology and support iMDx’s strategic vision. Beginning in 2026, iMDx seeks to deliver the industry-leading molecular diagnostic test kit for clinical use that expands and improves access to organ health testing for kidney transplant patients. The company expects that enabling localized testing will deliver new value in the roughly \$2 billion-plus addressable market for regulated transplant rejection testing.

The new peer-reviewed publication reports on 249 patients, who had undergone clinically indicated kidney transplant biopsies, from two independent cohorts, comparing dd-cfDNA measurements in blood plasma with newly developed histopathology-derived rejection indices ⁽¹⁾ that quantify transplant rejection activity across a continuous biological spectrum.

The investigators found that dd-cfDNA levels increased with histological evidence of graft inflammation, with the strongest associations observed in microvascular inflammation (MVI) and antibody-mediated rejection (AMR), which are the most clinically significant forms of transplant rejection.

iMDx's newly developed GraftAssure Combination Model (CM)-score mathematically combines the relative (percentage, or %) and absolute (copies per milliliter, or cp/mL) measurements of DNA fragments from the transplanted organ. In this study, the tight correlation between the novel GraftAssure CM-score

and rejection indices suggests that the assay is reliably measuring complex biological signals in kidney transplantation.

Notably, GraftAssure's CM-score outperformed both fractional and absolute measures on their own, in correlation analyses with the four indices of transplanted organ health, which are Antibody-mediated Rejection / Microvascular Inflammation (AMR/MVI index), T-Cell Mediated Rejection / Tubulointerstitial Inflammation (TCMR/TI index), Activity index, and Chronicity index. The rejection (AMR/MVI and TCMR/TI) indices were of particular interest to investigators because they are known to have a strong association with graft survival⁽¹⁾.

As mentioned above, study authors also presented [data](#) at the World Transplant Congress in 2025 that showed an improvement in positive predictive value from around 50% seen in the literature to an unprecedented value of above 80% using the GraftAssure CM-score (at 25% prevalence, which is often seen in for-cause settings) enabling the rule-in option for transplanted organ rejection for the first time. That study is currently under review for publication.

"Kidney transplant rejection is increasingly understood as a biological continuum rather than a simple yes-or-no diagnosis," said iMDx Chief Science Officer Prof. Dr. Ekkehard Schuetz, who co-authored the study. "Our results show that dd-cfDNA measured in the blood closely mirrors the inflammatory activity observed in transplant biopsies. One unexpected finding was that in TCMR, the total cell-free DNA increases with severity, which resulted in a loss of correlation for dd-cfDNA when reported as percentage. Whereas the Combination Model score showed the strongest correlation with TCMR. This supports the concept that integrated blood-based monitoring can provide clinicians with a real-time view of graft immune activity and help guide earlier intervention as rejection begins to develop."

The study was investigator-initiated and investigator-led. Insight Molecular Diagnostics provided dd-cfDNA measurements used in the analysis.

References

- (1) Vaulet T et al. Continuous indices to assess the phenotypic spectrum of kidney transplant rejection. Nat Commun. 2025;16(1):10417
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iMDx Transplant Products and Product Candidates in Development

iMDx's flagship transplant testing technology quantifies a molecular biomarker known as donor-derived cell-free DNA (dd-cfDNA). The company's scientists in Germany and the U.S. have played a critical role over the past decade in developing the science that helped establish dd-cfDNA as a trusted biomarker of transplant rejection. iMDx is commercializing this technology using a market-disruptive business strategy. Under the GraftAssureTM brand, iMDx's transplant diagnostics include the following:

- GraftAssureCore - The company's laboratory-developed test (LDT), currently reimbursed by CMS and performed at iMDx's CLIA-certified laboratory in Nashville.
- GraftAssureIQ - A research-use-only (RUO) kit intended and labeled for non-clinical applications.
- GraftAssureDx - The in vitro diagnostic (IVD) kit currently in development for use in clinical decision-making.

About Insight Molecular Diagnostics, Inc.

Insight Molecular Diagnostics is a pioneering diagnostics technology company whose mission is to democratize access to novel molecular diagnostic testing to improve patient outcomes. Investors may visit <https://investors.imdxinc.com/> for more information.

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Forward-Looking Statements

Any statements that are not historical fact (including, but not limited to, statements that contain words such as “will,” “believes,” “plans,” “anticipates,” “expects,” “estimates,” “may,” and similar expressions) are forward-looking statements. These statements include those pertaining to, among other things, the company’s expected FDA submission, anticipated delivery in 2026 of the industry-leading molecular diagnostic test kit for clinical use that expands and improves access to organ health testing for kidney transplant patients, anticipated added value of the company’s GraftAssureDx kit to the roughly \$2 billion-plus addressable market for regulated transplant rejection testing, and other statements about the future expectations, beliefs, goals, plans, or prospects expressed by management. Forward-looking statements involve risks and uncertainties, including, without limitation, risks inherent in the development and/or commercialization of diagnostic tests or products, uncertainty in the results of clinical trials or regulatory approvals, the capacity of Insight Molecular Diagnostics’ third-party supplied blood sample analytic system to provide consistent and precise analytic results on a commercial scale, potential interruptions to supply chains, the need and ability to obtain future capital, maintenance of intellectual property rights in all applicable jurisdictions, obligations to third parties with respect to licensed or acquired technology and products, the need to obtain third party reimbursement for patients’ use of any diagnostic tests Insight Molecular Diagnostics or its subsidiaries commercialize in applicable jurisdictions, and risks inherent in strategic transactions such as the potential failure to realize anticipated benefits, legal, regulatory or political changes in the applicable jurisdictions, accounting and quality controls, potential greater than estimated allocations of resources to develop and commercialize technologies, or potential failure to maintain any laboratory accreditation or certification. Actual results may differ materially from the results anticipated in these forward-looking statements and accordingly such statements should be evaluated together with the many uncertainties that affect the business of Insight Molecular Diagnostics, particularly those mentioned in the “Risk Factors” and other cautionary statements found in Insight Molecular Diagnostics’ Securities and Exchange Commission (SEC) filings, which are available from the SEC’s website. You are cautioned not to place undue reliance on forward-looking statements, which speak only as of the date on which they were made. Insight Molecular Diagnostics undertakes no obligation to update such statements to reflect events that occur or circumstances that exist after the date on which they were made, except as required by law.

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