

# Peer-reviewed review on the real-world data of "N-NOSE" published in an international scientific journal "Biomedicines"

*"Biomedicines", published a peer-reviewed review article\* on real-world data showing the effectiveness of our cancer screening test "N-NOSE".*

TOKYO, CHIYODA-KU, JAPAN, November 20, 2024 /EINPresswire.com/ -- HIROTSU BIO SCIENCE INC. (Head Office: Tokyo; Representative; Takaaki Hirotsu (Hereinafter referred to as "HIROTSU")), is proud to announce that the international biomedical journal "Biomedicines", published a peer-reviewed review article\* on real-world data showing the effectiveness of "N-NOSE".

N-NOSE Proves Effective for Early Cancer Detection: Real-World Data from Third-Party Medical Institutions. Nakajo N., et al., *Biomedicines*, 12, 2546 (2024)

<https://www.mdpi.com/2227-9059/12/11/2546>

This review explains the effectiveness and accuracy of "N-NOSE" based on real-world data obtained from independent, multicenter, third-party medical institutions.

## Main points of the review

### 1. Improvement of cancer detection rates

The cancer detection rate of PET screening tests triggered by "N-NOSE" was 2.96% compared to conventional PET screening which was 1.31%.

### 2. High positive predictive value (PPV)

The apparent PPV of PET/CT, without considering its sensitivity, was 2.09%. However, after adjusting for the sensitivity of PET/CT, the true PPV of "N-NOSE" reached approximately 11.7%. This demonstrates a screening efficiency 14.6 times higher compared to the cancer incidence rate in the general population (approximately 0.8%).

This review, based on real-world data from Japan, highlights that the nematode cancer test offers high cost-effectiveness for asymptomatic individuals and holds great potential as a minimally invasive primary cancer screening tool.

□Review the whole article (external and same link as above)

<https://www.mdpi.com/2227-9059/12/11/2546>

### \*Peer Review

“Peer review” refers to the process in which multiple independent third-party experts with an international perspective rigorously evaluate a research paper to determine its suitability for publication before it is released. This process seeks to improve the reliability of the paper through expert scrutiny. It has been a long-established system in the scientific community. A “peer-reviewed paper” is one that has passed through this rigorous and objective evaluation by specialists before being published.

### □ About HIROTSU BIO SCIENCE

As a researcher, company CEO Hirotsu saw potential in nematodes’ habit and developed a primary cancer screening test called “N-NOSE®”. With this unique technology and talented researchers, we aim to create a world where cancer can be detected early, protecting people’s health and securing a safer future.

Company Name : HIROTSU BIO SCIENCE INC.

Headquarters : 22F New Otani Garden Court, 4-1 Kioi-cho, Chiyoda-ku, Tokyo

Representative : Takaaki Hirotsu, CEO

Date of Establishment : August 2016

Main Service : Research, development, and marketing of cancer screenings using nematodes and nematode olfactory sensors.

Official Website : <https://hbio.jp/en/>

### □ About “N-NOSE®”

A primary cancer screening test that leverages the highly accurate ability of the nematode *C. elegans* to detect cancer-specific odors. “N-NOSE®” is simple, non-invasive, and inexpensive. By simply submitting urine, you can get a whole-body examination of early-stage cancer risks.

Official Website: <https://lp.n-nose.com/>

### □ About “N-NOSE® plus Pancreas”

“N-NOSE® plus Pancreas” uses a “special nematode” genetically engineered from the nematode *C. elegans* that specifically reacts only to the smell of pancreatic cancer.

Related Press Release: □ <https://hbio.jp/news/en/2023/01/20230104/>

### □ About “N-NOSE® Animals”

We applied “N-NOSE®” technology to our beloved pets and developed “N-NOSE® Dogs” and “N-NOSE® Cats”. Before “N-NOSE® Animals”, there were not any simple and accessible cancer screening tests for pets. Just like “N-NOSE®” for humans, “N-NOSE® Animals” can easily detect cancer risks only with a drop of urine from both cats and dogs.

N-NOSE® Dogs : <https://hbio.jp/news/en/2023/05/cancer-test-for-dogs-n-nose-plus-dogs-service-launch-from-tuesday-may-9/>

N-NOSE® Cats : <https://hbio.jp/news/en/2023/10/20231012/>

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