



NXgenPort is a combination medical device plus software company harnessing the power of machine learning and remote patient monitoring for physicians to proactively manage at-risk cancer patients with an implanted Smart Port that detects early signs of infection and readiness for next treatment.

**Founded:** 2020

**Website:** NXgenPort.com

**Headquarters:** St Paul, MN

## Investment

\$2 M Seed Round (open)

\$12M Series A (Q3:2024)

### Use of Funds

Product Development & Validation Testing  
Intellectual Property & Patent Fees  
Engineering, Regulatory, Quality Hires  
Quality Management System  
Animal models  
Pre-submission to FDA  
Other Working Capital

### Previous Investors

Baxter Edward Elmhurst Ventures  
Mayo Clinic Angels, HWI, F&F, Founders  
mHUB

## Leadership



**CATHY SKINNER**

**Chief Executive Officer**

Led three startups in oncology, focused on investor relations, and strategic partnerships



**ROSANNE WELCHER, PHD, MBA**

**Chief Operating Officer**

+30 years in companion diagnostics and cancer, 50 products through FDA and 16 patents



**KELLY CHRISTIAN, MS**

**VP R&D Engineering**

+30 years in med device development, 30 patents in ports



**JOHN SLUMP**

**Board Chair**

Serial entrepreneur, two exits for \$140M and \$800M

## Contact

Cathy@NXgenPort.com

651-587-5440



## Overview

NXgenPort is addressing an unmet need in cancer care by remotely monitoring patients between chemotherapy treatments with a Software as a Medical Device (SaMD) and an implanted Smart Port with intravascular cytometry sensors. By using machine learning to measure blood cell counts, vitals, and heart function in vivo, NXgenPort will alert physicians to early signs of infection, determine readiness for next treatment, and improve health equity and access. With the acceleration of Hospital at Home, care providers, cancer researchers, and pharma stakeholders find value in monitoring a patient's biological response to interventions with a robust data package to improve outcomes.

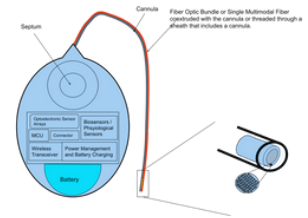
## Highlights

- Built device prototype and tested it with human and swine blood
- Compared device results to a gold standard lab test
- Raised \$1.125M to date
- All IP owned by NXgenPort: Filed three patent applications – one Utility (issued Q4:'23), one Utility (published), and one provisional
- Three years of a collaboration agreement with Mayo Clinic
- Completed Mayo Clinic Platform Accelerate [Aug 2023]
- Built, trained and tested model for predicting neutropenia risk
- Accepted to MedTech Innovator [June 2023]
- Completed pre-clinical animal model testing [March 2023]
- Completed premier mHUB Accelerator in Chicago [May 2022]
- Verified existing CPT codes for reimbursement
- FDA strategy: Class II, 510(k) for hardware & software
- Beach-head market: early detection of neutropenia



## Technology

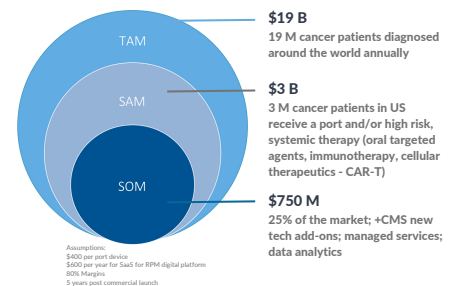
- Microelectronics with a power source in the body of the port and a fiber optic bundle through the wall of the catheter.
- Autofluorescence illuminates the field and captures images of the blood cells as they flow by the fiber optic tip at the end of the catheter.
- Images are processed by a trained machine learning algorithm that counts the cells based on their known size and composition.
- Real-time, longitudinal data is analyzed and shared with physicians through an API to the electronic medical record so they can intervene before a problem escalates to hospitalization.



## Competition

	NXgenPort	Port Manufacturers	Wearables	Diagnostic Laboratories	Vital Health
Implanted device	✓	✓			✓
Blood count measures	✓			✓	
Digital health platform	✓		✓		✓
Oxygen, heart rate, body temperature	✓		✓		✓
Novel data package	✓				
Passive data collection	✓				
In vivo blood count & heart function	✓				

## Market



## Collaborations



## Timeline

Milestone	Date	Cash Outlay
FDA 510(k) Submission	12/18/2025	\$10,071,808
Software as a Medical Device Release	4/28/2026	
FDA 510(k) Clearance	8/6/2026	\$13,281,894
Production Ready	10/13/2026	
1st Commercial Sale	1/15/2027	\$16,516,625
Profitability	4/1/2028	\$25,771,962