



Innovative and Fully Automated sample deposition and staining system designed for Rapid On-Site Evaluation (ROSE*)



"ROSE Prep™ is a mobile, compact, and intuitive unit that can automatically produce high-quality slides in procedure suites."

Melissa Randolph, CT, Cytology Supervisor
Indiana University Health

Introducing an All-In-One Automated Slide Preparation & Staining System

Simple and Intuitive

- Standardized high-quality slides
- FAST! – Less than 2 minutes
- Dual Modes – Deposit & Stain or Stain only
- Prepares two slides: Diff-Quik™ stained and alcohol fixed



FDA Listed, UL Listed,
Patented and CE Mark

Revolutionizing ROSE for Cytologists

Shift the focus from preparing slides to collaborating with the clinical care team.

ROSE Cart Ready

3 Easy Steps for Slide Prep in <2 Minutes

- 1 Deposit sample into the ASP Vial™
- 2 Insert consumables
- 3 Press Start

Slides are then ready for microscopic evaluation and clinical collaboration.



Enhancing cancer diagnosis.

Our award winning¹ and patented² system automates sample preparation, so you can be confident about every specimen slide.

The ASP Vial™

Maintains diagnostic cells from needle to cell block



Homogenize sample from needle



Slides made with <2 drops of sample



Store remaining diagnostic sample

The ASP Benefits

Three ways we improve specimen quality and eliminate cross contamination



ASP Pod™

Enables transfer of sample to the device



ASP Hood™

Prevents cross-contamination and aerosolization



Stain

Delivers fresh stain to each slide

Clinical studies³ have shown

The ROSE Prep™ system creates better mono-layered, consistent high-quality specimen slides compared to manual preparation.

- Better Quality and Clarity
- Decrease FNA Passes
- Reduce Procedure Time
- Optimize Clinical Resources



Enhancing cancer diagnosis.

Fully automated and fast!

Consistent monolayer sample preparation and staining for your FNA specimens in less than 2 minutes.

- Standardizes the process by eliminating variability found in manual preparation
- Ensures reproducibility and reliability; slide-to-slide and patient-to-patient
- Proprietary monolayer technology minimizes crushed cells, slide drying, and other artifacts
- Reduces the need for multiple cytopathology resources during the ROSE procedure



Fresh stains for every slide!

Fresh reagents are delivered to every slide producing the highest-quality slide while eliminating over and under staining.

- Utilizes fresh stains on every pass to yield slides with enhanced micro-anatomic detail
- Eliminates the risk of cross-contamination observed in dip-and-dunk staining
- Mitigates stain evaporation and oxidation common in re-used reagents
- Open stain system allows selection of user-preferred Diff-Quik stains

Improved ROSE workflow!

Consolidated instrument frees up your staff from non-value-added activities while improving case management.

- Fast, hands-free specimen preparation shifts focus to evaluation of specimen for adequacy
- Dual operating modes provide flexibility in using the device for aspirates, touch preps, or brushings
- Optimizes clinical resources and helps address a shortage of cytologists
- Preserves specimens for downstream molecular testing and reduces unnecessary FNA passes

Safe and easy to use

Fits on any countertop/cart and can be quickly operated by personnel with little training.

- Mobile and small footprint enables reliable transport across different procedure rooms
- Simple and intuitive user interface facilitates fast learning
- Fully enclosed system provides a safe working environment that protects patients and users
- Minimizes daily and weekly system maintenance



Enhancing cancer diagnosis.

Clinical Study Summary

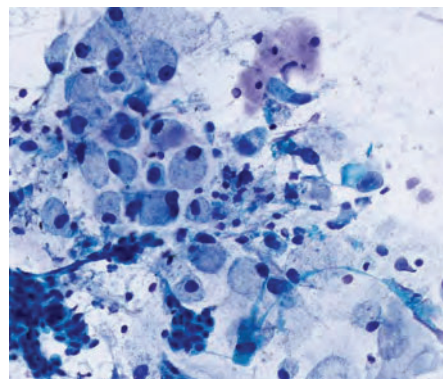
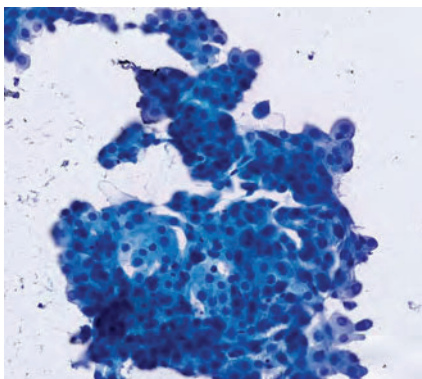
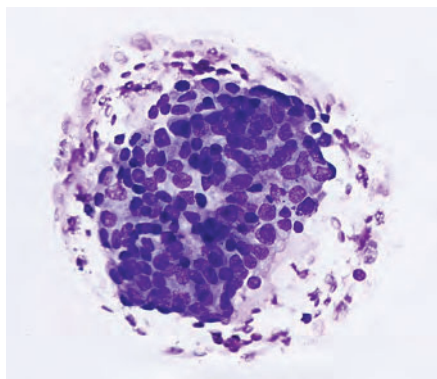
The ROSE Prep™ system and conventional manual preparation were compared in two different multi-center clinical studies involving leading healthcare centers.

Study 1: In a blinded, multi-center clinical study involving more than 200 patients, the ROSE Prep™ sample preparation and staining system was compared to the conventional manual preparation of FNA samples from lung procedures.

Study 2: In a multi-center clinical study involving more than 80 patients performed on interventional radiological samples, the ROSE Prep™ system produced superior slides compared to conventional touch prep methods.

The major takeaways from the cytopathologists reviewing ROSE Prep™ slides include:

- Superior monolayer sample on ROSE Prep™ prepared slides
- Enables higher confidence in making clinical diagnosis
- Higher clinical utility by reducing overall procedure time
- Preserves the touch biopsy specimens for downstream testing without any crush artifacts



Slides prepared using the ROSE Prep™ system

Economic Value Summary

Implementing ROSE Prep™ into your cytology department can reduce the cost of performing ROSE by up to \$2.5 Million over 3 years.

- Addresses the shortage of cytotechnologists
- Reallocates the cytotechnology resource to high reimbursement procedures
- Reduces the wait time of cytotechnologist and cytopathologist in the procedure suites
- Creates a new revenue stream when combined with telecytology



Enhancing cancer diagnosis.

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Our Vision

Standardize and digitize ROSE by combining the ROSE Prep™ system with Automated Telepathology and Artificial Intelligence to enable the diagnose-to-treat paradigm.



Consistent Sample Preparation



Automated Telepathology



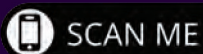
Remote Slide Reading



Artificial Intelligence

Join Us

ASP Health is partnering with early-adopter sites and commercial entities to implement our vision.



1 Good Design Award winner for design and innovation,

Bronze Winner at the Medical Design Excellence Awards (MDEA - 2022) and finalist at the International Design Excellence Awards (IDEA - 2022).

2 Patents: US 11,719,712, US 11,460,383 and US 11,573,242. Several other US and world wide patents are currently pending.

3 References:

M. Pritchett, J. Duke, J. Williams, et al., "Automated Sample Preparation System for Endobronchial Ultrasound (EBUS): ROSE Applications", Chest - 2022.

A. Goyal, M. Pritchett, C. Schirmer, et al., "Rapid Onsite Evaluation Using an Automated Sample Preparation System", American Society of Cytopathology Annual Meeting - 2022.

J. Duke, C. Sturgis, et al., "Evaluation of Automated Sample Preparation System for Lymph Node Sampling", Journal of Thoracic Diseases, vol. 15, no. 8, 2023".

* The scope of practice for a ROSE service is best determined by health care providers and must be performed within the mandates of CLIA. Sites are responsible for following the most current version of the CLIA regulations Part 493.

