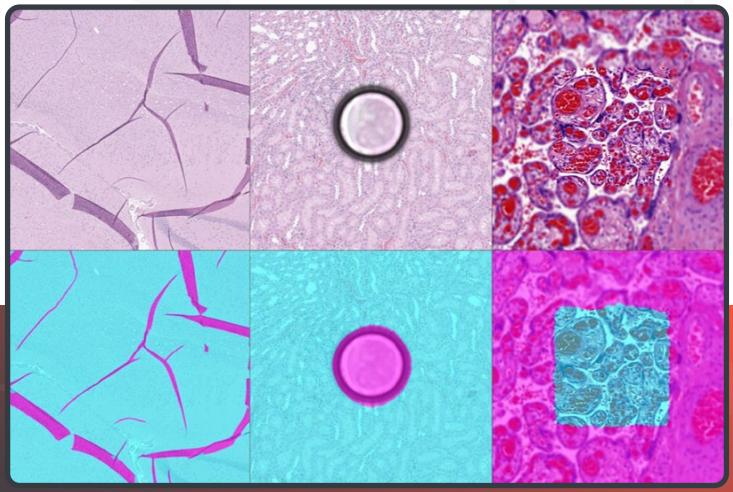
SLIDEQC BF

HALO Clinical AI Solutions



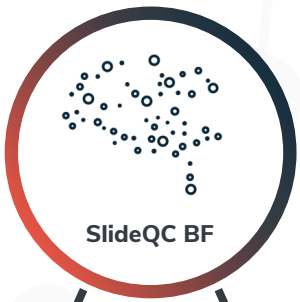
SlideQC BF for HALO AP® is an automated, AI-powered application for H&E slides that detects the most common artifacts generated during the process of slide preparation and whole slide imaging. It is seamlessly integrated into the HALO AP diagnostic digital pathology platform.

powered by indica labs

PUT AI TO WORK IN YOUR ANATOMIC PATHOLOGY LABORATORY

Step-By-Step

After slide preparation and scanning, images are uploaded to HALO AP



- Out of focus
- Air bubbles
- Tissue folds
- Pen marks
- Dust
- Coverslip Issues

X

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Rejected slides are flagged for review and rescan or recut

Additional automated image analysis (optional)

Accepted slides ready for pathologist review

You set the artifact threshold to control the quality process of your lab.

IMPROVE THE EFFICIENCY OF YOUR WORKFLOW

Providing pathologists with high-quality digital slides expedites report generation and enhances patient care. With HALO AP, slides can be scanned by SlideQC BF and additional image analysis algorithms, all before the pathologist gets the case.

INCREASE STAFF AVAILABILITY

SlideQC BF automates slide checking, freeing technicians for other laboratory tasks. It quantifies slide artifacts, allowing you to set the manual review threshold and oversee the quality control process in your laboratory.

FUTURE PROOF YOUR LAB

As laboratories adopt increasingly specialized assays, digital pathology and AI analysis gain further traction. Integrated with HALO AP, SlideQC BF can triage slides before they're analyzed by other AI algorithms, helping to ensure data integrity.

GET THE MOST OUT OF YOUR QUALITY REVIEW PROCESS

1. Save on time and resources

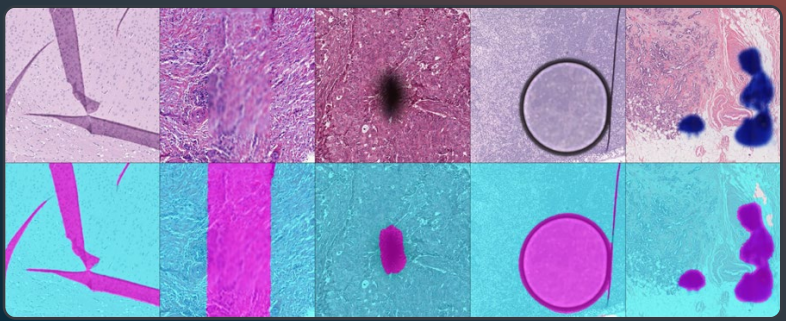
Manual screening of slides is a time-consuming and resource-intensive process, especially as case volumes continue to increase. SlideQC BF frees up resources so they can be allocated to other laboratory tasks.

2. Ensure the quality of your clinical data

SlideQC BF catches pre-analytic errors and flags them for reprocessing before they can negatively affect the quality of clinical data and hinder downstream analysis, including digital pathology workflows.

3. Avoid pre-analytic processing errors and keep cases moving forward on schedule

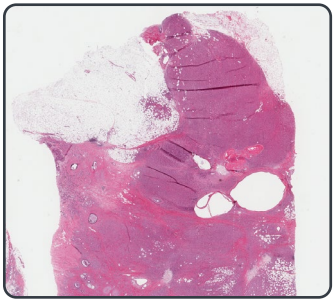
Studies have shown that 5%-10% of all acquired digital whole slide images contain artifacts that affect downstream analysis[1]. By scanning every slide for artifacts in an automated manner, SlideQC BF decreases case turnaround time by ensuring all slides are ready for the pathologist to sign out when they receive the case.



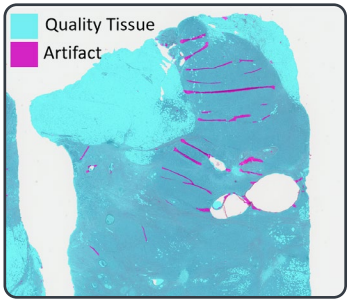
SlideQC BF analysis of tissue folds, out-of-focus regions, dust, air bubbles and pen marks.

PERFORMANCE & VALIDATION

H&E

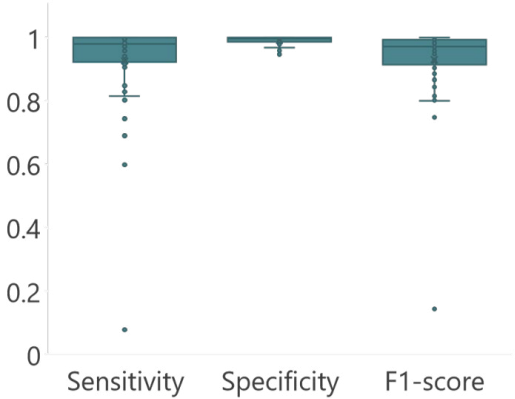


SlideQC BF



Performance of SlideQC BF was evaluated on an external H&E test set sourced from HistoQC Repository.

SlideQC BF Average Sensitivity, Specificity, and F1-score



Metric	Average ± SD
Sensitivity	0.93 ± 0.15
Specificity	0.99 ± 0.01
F1-score	0.93 ± 0.13

PERFORMANCE OF SLIDEQC BF ON EXTERNAL TEST SET

Artifact	Sensitivity	Specificity	F1-score
Air bubble	0.88 ± 0.08	0.99 ± 0.01	0.93 ± 0.05
Dust	0.96 ± 0.12	1.00 ± 0.0	0.97 ± 0.07
Folds	0.84 ± 0.26	0.98 ± 0.01	0.83 ± 0.23
Marker	0.97 ± 0.05	0.99 ± 0.02	0.98 ± 0.02
Out-of-focus	0.98 ± 0.03	0.99 ± 0.01	0.96 ± 0.04

SlideQC BF achieved high sensitivity, specificity, and F1-score in an external test set of H&E images.

Ready to learn more?

Contact us to schedule a demo of SlideQC BF and HALO AP®.

SlideQC BF is a quality control tool for whole slide images and is not regulated as a medical device under Regulation EU 2017/746 (IVDR) or MDR 2002 (UK).

HALO AP® is CE-IVDR marked for in-vitro diagnostic use in Europe, the UK, and Switzerland. HALO AP is For Research Use Only in the US and is not FDA cleared for clinical diagnostic use. In addition, HALO AP provides built-in compliance and certifications with FDA 21 CFR Part 11, ISO 13485:2016, HIPAA, and GDPR.

[1] Chen Y, Zee J, Smith A et al. Assessment of a computerized quantitative quality control tool for whole slide images of kidney biopsies. *Journal of Pathology* **253**: 268-278. DOI: 10.1002/path.5590

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