



Quality control in bone marrow cytology

Speeding up the quality control-process with highest image quality and easy to use sample sharing via cloud.



The O8: Oil Scanner and Microscope and PreciCloud image hosting service

Challenge

Quality control in Hematology means, that you evaluate, whether laboratories are able to make an accurate diagnosis. This is done with a physical bone marrow smear and blood smear sample, that are sent to up to 10 laboratories. The labs use the samples to make diagnoses and sent them to the central data center. Each laboratory has to wait in the „queue“ for a week to get the „test-

sample“ from the lab prior to them. This means, with 10 labs, it takes 10 weeks in total to get all the needed diagnoses. During transport and handling, the samples also get lost or damaged occasionally. This evaluation procedure is repeated 4 times a year. That means a lot of waiting time, transport costs, paperwork and communication.

»I was really impressed, how well Preci.Cloud works. I just get a link from you and have the images on my computer screen and on phone right away. «

Dr. ir. A.A.M. Ermens

Our approach and solution

We digitized the quality control. Instead of physically distributing the test-samples across all laboratories and accepting +2 months of waiting time, we now use a digital sample. A Scan of a whole slide in high quality at 100x magnification is used for that. It is easily shared via Preci.Cloud with all labo-

ratories at once. So every lab can start their diagnosis right away. This can speed up the process from 10 weeks of waiting time to one week. The results are also more accurate, as the digital samples that every lab gets are exactly the same.

Tech specs: O8	
Scanning parameters	Whole Slide Imaging or partial digitization
Scanning resolution	100x, oil objective, 1.4 NA: 0.11 µm /px; 40x, 0.95 NA: 0.28 µm /px;
Z-Stacking	25 nm steps over 100 mm path; automated Z-axis

10 x

Faster quality control cycle reduced from 10 to 1 week.

100 %

Reproducible test results regarding the samples



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