CELLAVISION

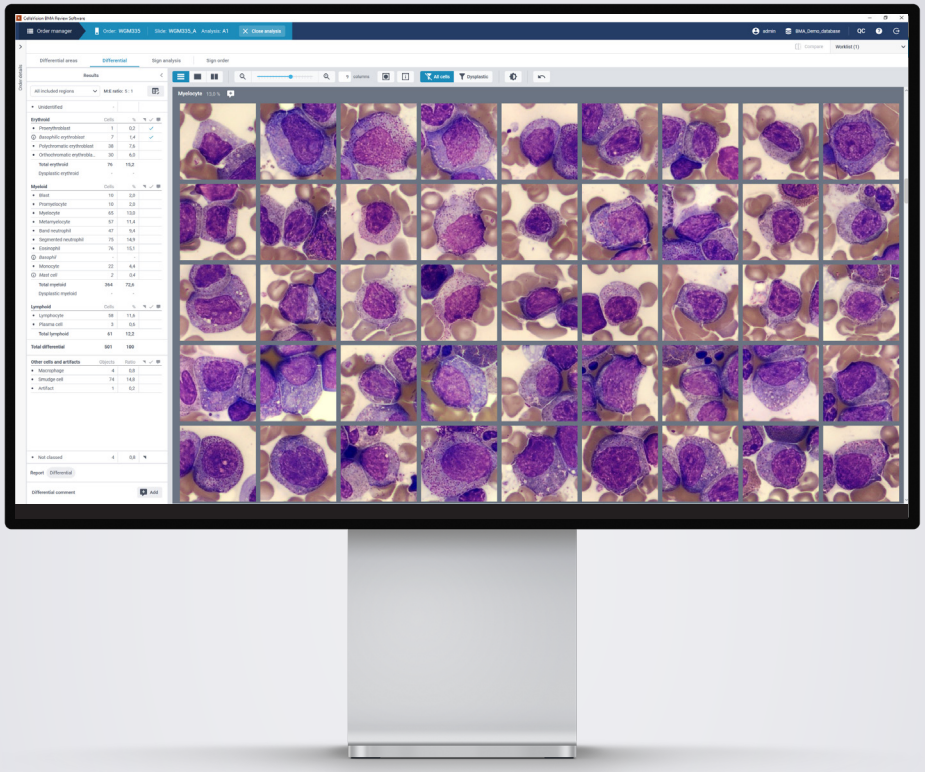
CellaVision® Bone Marrow Aspirate Application

CellaVision Bone Marrow Aspirate (BMA) Application automatically locates, captures, and pre-classifies cells based on morphology, enabling laboratories to automate, standardize and simplify morphological examination of bone marrow aspirate samples.

The application supports:

- **Nucleated Cell Differential;** by delivering a comprehensive pre-classification into 17 cell types
- **Automatic location** of suitable areas for the differential
- **Manual selection of differential areas** when desired
- **Remote review by several experts,** with preliminary signatures and extensive commenting functions
- **Reporting of results,** to LIS or create a PDF-report including selected cell images
- **Traceability** in area selection, re-classification, commenting and results

CellaVision BMA Application runs on a CellaVision® DC-1 analyzer using a 100x objective. Together with CellaVision® BMA Review Software, it enables morphology review, consultation, and verification of cell differentials from anywhere, at any time.



Features

Analyze multiple slides per order, and select which slides to include in the results

Pre-classified cells are easily dragged and dropped into the appropriate cell class if re-classification is needed

View cell images at adjustable magnification, in their surrounding and with cell classes side-by-side

Select, compare and review the slide regions used for analysis, view results per slide or particle-by-particle

Tag cells as dysplastic, and calculate % of dysplastic cells in lineage

Compare cells with previous results or with reference cell images side-by-side, using split view

Generate overview images of smears for overall review or further analysis

Archive cell images as part of the patient's medical history

EVOLVING MICROSCOPY | ELEVATING HEALTHCARE

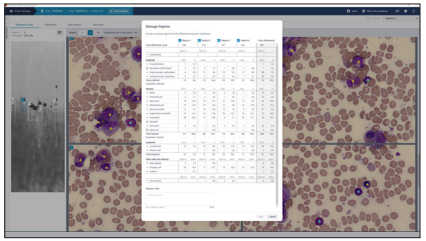
How does it work?

- CellaVision® BMA Analyzer Software, automatically locates, pre-classifies and stores bone marrow aspirate cells based on morphology, using advanced AI technology
- With CellaVision BMA Review software, the cell images are displayed, and the pre-classification results are then reviewed and verified by a qualified bone marrow morphology expert

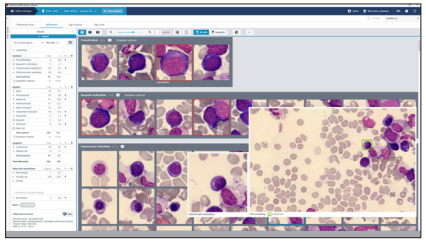
Why CellaVision BMA Application?

CellaVision BMA Application transforms bone marrow analysis by turning aspirates into answers:

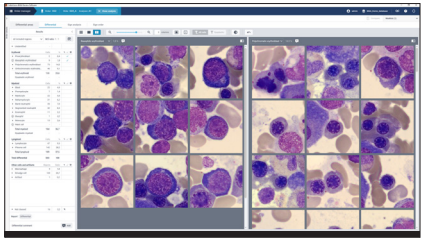
- Automates tedious manual work with AI-powered cell pre-classification in a user-friendly, collaborative workflow
- Promotes accuracy and consistency through standardization, traceable images, and reference tools
- Enables remote reviews to speed up turnaround time, enhance collaboration, and support diagnostic confidence and proficiency



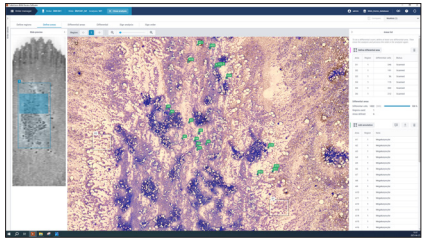
Compare differential results region by region



Tag cells as dysplastic and show the cell in its surroundings



Side-by-side comparison



Annotate and select differential areas in overview images

CellaVision® BMA Application Technical Specifications

SLIDE PREPARATION METHODS

Wedge smear or Squash preparation, with or without coverslip

- Manual smears
- Automated or manual staining
- RAL StainBox and RAL Stainer

STAINS

Romanowsky stains

- May Grünwald Giemsa
- Wright Giemsa
- Wright
- RAL MCDh

RESULT PARAMETERS**

- Differential pre-classification: Proerythroblast, Basophilic erythroblast*, Polychromatic erythroblast, Orthochromatic erythroblast, Blast, Promyelocyte, Myelocyte, Metamyelocyte, Band neutrophil, Segmented neutrophil, Eosinophil, Basophil*, Monocyte, Mast cell*, Lymphocyte, Plasma cell
- Other cells and artifacts pre-classified: Macrophage, Smudge cell, Artifact
- User has the ability to add additional cell classes for manual re-classification
- Dysplastic cells: quantitative results presented as the percentage of cells in lineage tagged by the user as dysplastic in the erythroid and myeloid lineages
- M:E ratio: quantitative results presented as the M:E ratio based on user classified cells in the Myeloid and Erythroid lineage
- Results can be saved in a PDF-report as well as sent to LIS

ANALYZER

- CellaVision® DC-1 – A small footprint analyzer providing high quality images acquired with a 100X oil objective which can be operated as a stand-alone device or in a network configuration
- CellaVision® DC-1 analyzer is supplied with CellaVision® Peripheral Blood Application as a standard feature

** The application generally reports lower values for Basophilic erythroblasts, Basophils and Mast cells compared to manual microscopy, based on performance evaluation studies.*

*** The clinical performance evaluation included samples from patients across various age groups, including pediatric cases. However, the number of pediatric samples was not sufficient to draw statistically robust conclusions specific to this subpopulation. Therefore, the clinical performance in pediatric patients has not been fully demonstrated.*

Specifications are subject to change without notice. This product may not be available in all markets.

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