



DM61 Vet

Automatic Hematology Analyzer for Vet



Principle

Flow cytometry & Tri-anglescatter for 5-part differential analysis and WBC counting
 Impedance for WBC/RBC/PLT counting
 Cyanide-free colorimetric method for HGB calculating
 Laser scattering method and staining method for RET

Test Mode

CBC, CBC+DIFF, CBC+DIFF+Retic

Parameter

25 parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, Retic#, Retic%
 5 scattergrams (including 1 for Baso, 1 for Ret), 3 histograms (including RBC, PLT histograms)

Sample Volume

Whole blood mode for CBC+DIFF+RET: $\leq 35\mu\text{L}$
 Whole blood mode for CBC, CBC+DIFF: $\leq 20\mu\text{L}$
 Pre-diluted mode: $\leq 20\mu\text{L}$

Data Storage

$\geq 50,000$

Throughput

CBC $\geq 60\text{T}/\text{H}$, CBC+DIFF $\geq 40\text{T}/\text{H}$,
 CBC+DIFF+Retic $\geq 10\text{T}/\text{H}$

Species

Group I: cats, dogs
 Group II: rabbits, cows, horses, sheep, pig
 Group III: mouse, rat, guinea pig, monkey, camel

Display

12.1-inch color touch screen

Data Transmission

USB, LAN port
 HL7 with bi-direction LIS are available.

Printout

Compatible with multiple print formats & user-defined set

Size

500(D)mm x 360(W)mm x 490(H)mm

Weight

$\leq 32\text{KG}$



Compact & Powerful

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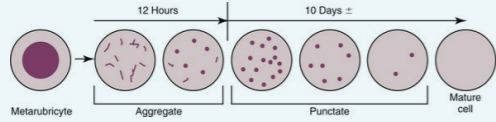
www.dymind.com



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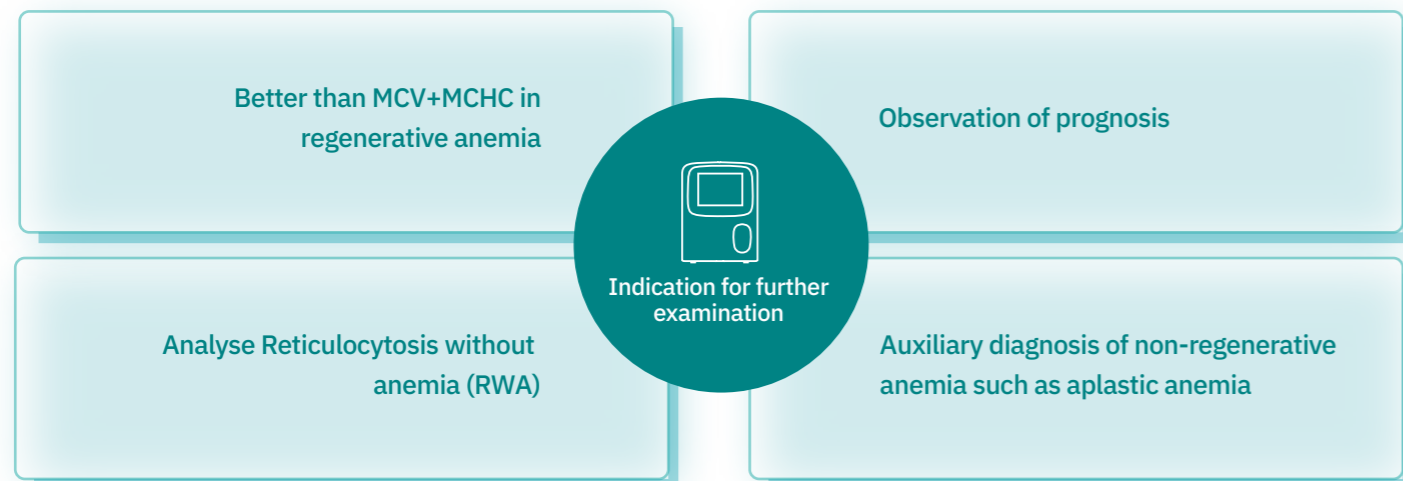
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Clinical Application - Respective Items

WBC	Gran		Neutrophil (Neu) Diameter: 12~15µm	<ol style="list-style-type: none"> 1. Rapidly migrate to inflammatory area 2. Defend against microorganisms into the tissue 3. Leave from the blood into tissues for killing bacteria
	Lymph		Lymphocyte (Lym) Small lymphocytes diameter: 7-9µm Middle and large lymphocytes diameter: 9-11µm	<ol style="list-style-type: none"> 1. B Lymphocytes differentiate into plasmocyte, involving in humoral immunity 2. T lymphocytes differentiate into effector T cells, which involves in cellular immunity and activates the immune response of the body
	Mid		Eosinophil (Eos) Diameter: 12~20µm	<ol style="list-style-type: none"> 1. Predominant part in allergic reaction 2. Defend against parasites 3. Limited phagocytosis and bactericidal effect
			Basophil (Bas) Diameter: 12~20µm	<ol style="list-style-type: none"> 1. Contain histamine and heparin, involving in the regulation of allergy and inflammation 2. Defend against parasites
RET	Reticulocyte		<ol style="list-style-type: none"> 1. Replenishing red blood cell sources 2. Reflects the strength of bone marrow hematopoietic function 3. Closely related to age, disease and nutritional status 	



Clinical Application - Joint Items CBC+RET

Why CBC+RET?



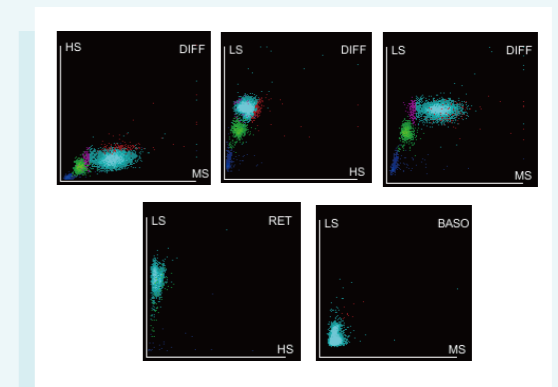
Advanced and Improved Staining Method

For counting reticulocytes with minimum influence by stages

	 Auto Hematology Result	 Manual Microscopy
Steps	One-button to test and report	Smear, Dye, Microscopic Examination, Manual Record
Throughput	5 minutes per sample	30 minutes at least
Performance	Favourable - Sensitive enough for Stage-IV RET (classification criteria are from ICSS)	General - Hard to count late stage of RET

Dedicated BASO and RET Channel

For better WBC differentiation and RBC grading



Humanized Software Management

For satisfactory interaction experience

