

Iron and anemia assessment result-interpretation module


Consolidated report on iron status and anemia differentiation for efficient patient diagnosis

- Evaluation of iron status applying the key markers soluble transferrin receptor (sTfR) and ferritin
- Aid in the differential diagnosis of anemia
- Monitoring of erythropoietin and iron therapy
- Screening and monitoring of hemochromatosis
- Graphical result display
- Combined results from various analyzers, e.g. BN ProSpec® or BN™ II Systems, Dimension® RxL Max® / Xpand® Plus Systems
- Integration of hematological parameters, e.g. hemoglobin, mean corpuscular volume (MCV), reticulocyte index

Supports the diagnosis of:

- Iron deficiency
- Anemia of chronic disease, anemia of renal disease, or other hypoproliferative anemia
- Hyperproliferative anemia
- Hemolytic anemia
- Iron overload

Iron Status Report



Submitter

Tel.:

Patient Information		ID	37	Date of Birth	
Name	Example, Anemia	Age (Y)	36	Sex	F
Height (cm)		Weight (kg)			

Diag. Question **Anemia Differentiation**


Sample information

Serum	3720061213S	13.12.2006
Blood	3720061213B	13.12.2006

Biochemical Parameters	Result	Reference	Unit
Ferritin	18	10 - 250	µg/L
soluble Transferrin Receptor	2	0,76 - 1,76	mg/L
sTFR-FERR Ratio	1,6	0,38 - 1,54	-
Transferrin	2,3	2,02 - 3,64	g/L
Transferrin Saturation	17	16 - 45	%
Iron	54	0 - 0	µg/dL
CRP	3	0 - 3	mg/L

Hematological Parameters

Hb	1,2	12 - 16	g/dL
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Assay	Hb (H)	sTFR	FERR	Index	Transf.	CRP1
Concentration	11,5	1,98	18,0	1,6	17,02	3
Unit	g/L	mg/L	µg/L	-	%	mg/L
Reference	120			0,38	16	0
	160			1,54	45	5

Interpretation

Low iron stores, most probably iron deficiency anemia or other hyperproliferative disorder such as hemolysis. Determination of complete blood count, haptoglobin, reticulocyte count and/or reticulocyte Hb is recommended. Exclude thalassaemia, hemoglobinopathies, or myelodysplastic syndrome.

15.12.2006

Signature _____

Released by:

Release date:

- Allows efficient screening for iron disorders
- Offers efficient differentiation of anemia
- Provides improved patient management

Protis® Result Interpretation Software

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Comprehensive iron and anemia evaluation for improved patient management

Iron related protein markers

- Soluble transferrin receptor (sTfR)
- Ferritin
- Transferrin
- Haptoglobin
- CRP, as indicator of inflammatory disease

Iron related indices

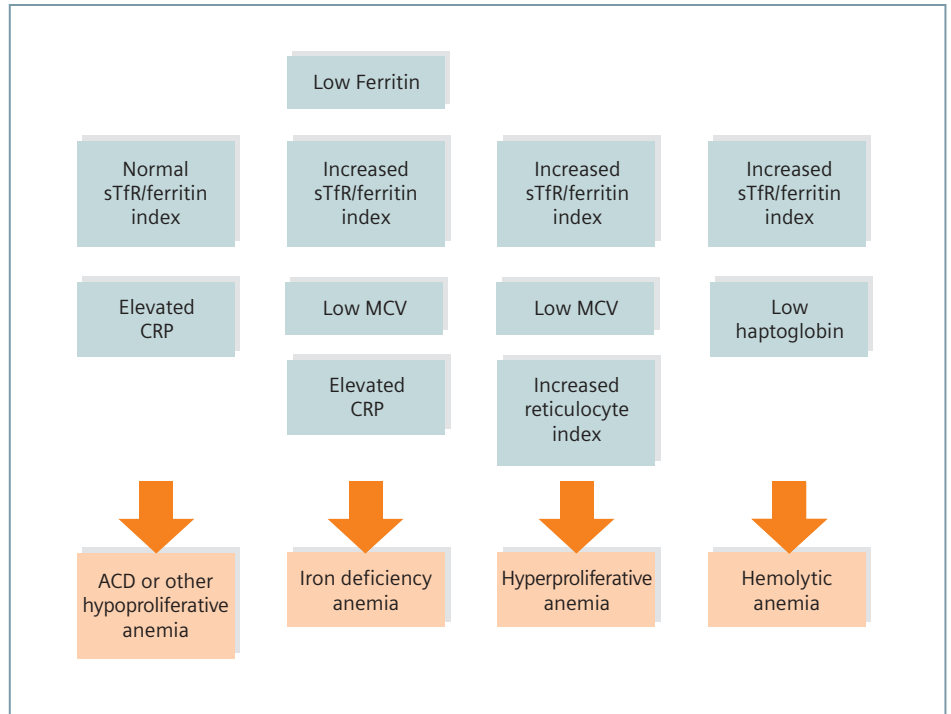
- sTfR index
= $\text{sTfR (mg/L)} / \log \text{ ferritin } (\mu\text{g/L})$
- Transferrin saturation
= $70.9 \times \text{iron } (\mu\text{g/L}) / \text{transferrin (mg/L)}$

Hematological parameters

- Hemoglobin, hematocrit
- Red blood cell count (RBC), mean corpuscular volume (MCV), mean corpuscular hemoglobin (MCH)
- Hypochromic red cells
- Reticulocyte index

Helps to answer diagnostic questions

- Iron status assessment
- Anemia differentiation
- Erythropoietin and iron therapy monitoring
- Hemochromatose screening and monitoring



Ordering information:

Protis Iron and Anemia Assessment
Product code: OVVE03

For more information, please visit our website or contact your local Siemens representative.

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