

# CSF assessment result-interpretation module

## Computer-aided CSF (Cerebrospinal Fluid) assessment for improved patient management

- Evaluation of serum and CSF results
- Result interpretation guidance
- Graphical result presentation using the Reiber diagrams
- Consolidation of results from various analyzers, e.g. BN ProSpec® or BN™ II Systems, BEP® 2000 Advance and Dimension® RxL Max® / Xpand® Plus Systems
- Optional display of patient history

## Supports patient diagnosis

- Diagnosis of blood-CSF barrier disturbances
- Detection of intrathecal immunoglobulin synthesis
- Differential diagnosis of inflammatory diseases
- Serological identification of infectious pathogens
- Identification of CSF leakage

**CSF Assessment Report**

Submitter: \_\_\_\_\_

Tel.: \_\_\_\_\_

**Patient Information** ID 35

Name Example, CSF Age 35 (Y) Sex F Date of Birth \_\_\_\_\_

**Sample information**

CSF 3520061213C 13.12.2006

Serum 3520061213S 13.12.2006

**Diagnostic Question**

Place of Puncture LP | CP | VP Visual Inspection Hemoglobin Volume m

**Cells**

Cell Count 12 / $\mu$ L Erythrocytes Count \_\_\_\_\_

Lymphocytes \_\_\_\_\_ Monocytes \_\_\_\_\_

Neutrophilic Granulocytes \_\_\_\_\_ Plasma cells \_\_\_\_\_

**Proteins**

	CSF	Serum	Q CSF/Serum	local Synthesis
Total Protein	270 mg/L	41,4 g/L	2,7	
Albumin	111,0 mg/L	8,8 g/L	6,4	74%
IgG	56 mg/L	2,2 g/L	0,9	%
IgA	1,9 mg/L	2 g/L	1,1	57%
IgM	2,1 mg/L			

**Oligoclonal IgG**

\_\_\_\_\_

**Additional Parameter**

	CSF	Serum	Q CSF/Serum
Lactate	1,6 mmol/L		
Glucose			

**Antibody Indices**

	CSF	Serum	Q CSF/Serum
Measles-AI (IgG)	10,1	Rubella-AI (IgG)	14,9
VZV-AI (IgG)	8,9	HSV-1-AI (IgG)	1,1

**Interpretation**

<input type="checkbox"/> Normal CSF	<input type="checkbox"/> Normal CSF proteins
<input type="checkbox"/> Blood-CSF barrier dysfunction	<input checked="" type="checkbox"/> Increased cell count
<input checked="" type="checkbox"/> Inflammatory proc. in CNS	<input checked="" type="checkbox"/> Spec. Ab synthesis in CNS

15.12.2006

Signature \_\_\_\_\_

Released by: \_\_\_\_\_

Release date: \_\_\_\_\_

- Allows early detection and diagnosis of disease
- Offers continuous monitoring of therapeutic effectiveness
- Provides improved patient management

Protis® Result Interpretation Software

Answers for life.

**SIEMENS**

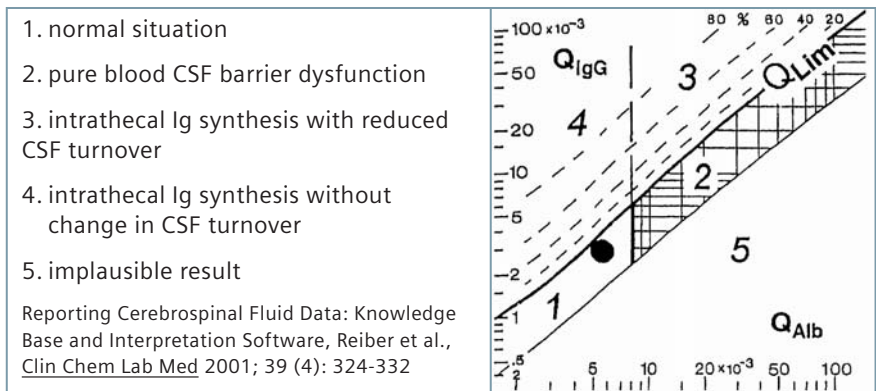
# Comprehensive result reports for better patient management

## Core CSF assessment

- IgG and albumin CSF/serum ratios
- Graphical result presentation in Reiber diagrams
- Result interpretation suggestions

## Extended panel for further CSF assessment

- IgA and IgM CSF/serum ratios
- Cell count and differentiation including a predefined list of cell types
- Determination of intrathecal microorganism-specific immune response
  - Viruses: e.g. measles, rubella, VZV, HSV I/II, EBV, CMV, HIV and others
  - Bacteria: e.g. Borrelia burgdorferi, Treponema pallidum, Chlamydia
  - Protozoae: e.g. Toxoplasma gondii
  - Species-specific ratio of IgG, IgA or IgM in CSF and serum
- Oligoclonal bands considering predefined interpretations



## Additional data

Other biochemical markers

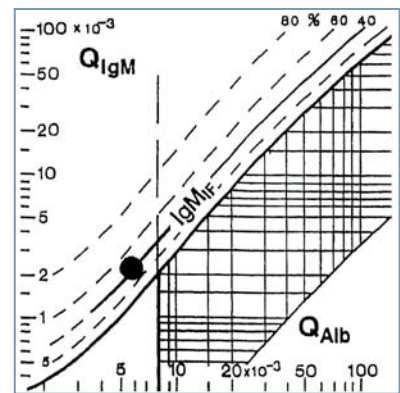
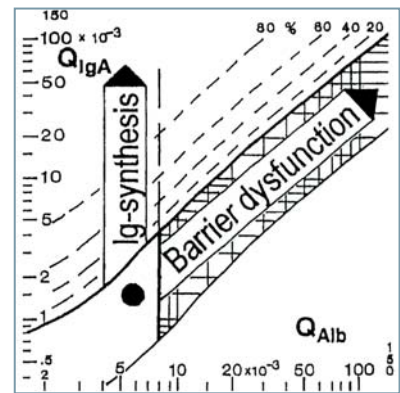
- Glucose
- Lactate
- $\beta$ -trace protein\* and other proteins determined in CSF
- Formulas according to Tourtellotte and Tibbling-Link

Microbiological culture and PCR

- Predefined list of organisms for culture and PCR results

CSF sample information

- Place of puncture
- Optical appearance
- Hemoglobin



## Ordering information:

Protis CSF and Kidney Assessment  
 Product code: OVEB03

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

\* For research use only.  
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