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**Lab Dept:** Other Fluids

**Test Name:** IGG INDEX, CSF

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***General Information***

**Lab Order Codes:** IGGI

**Synonyms:** Cerebrospinal Fluid (CSF) IgG Index Profile, Serum and Spinal Fluid

**CPT Codes:** 82040 – albumin, serum  
82042 – albumin, urine or other source, quantitative  
82784 x2 – gammaglobulin; IgG, each

**Test Includes:** IgG synthesis rate CSF. Both CSF and serum are required for this test.  
**Spinal fluid must be obtained within 7 days of the serum collection.**

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***Logistics***

**Test Indications:** Aiding in the diagnosis of multiple sclerosis and other central nervous system inflammatory conditions

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Clinic Laboratories (Test: SFIG)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 - 2 days, test set up Monday - Saturday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** **Both serum and spinal fluid are required** for this test and must be obtained within 1 week of each other

**Container:** Blood: SST (Gold, marble or red) tube

CSF: Screw capped, sterile vial

<b>Draw Volume:</b>	4.5 mL blood 1 mL CSF
<b>Processed Volume:</b>	2 mL, 1 mL each in two separate vials (Minimum: 1 mL serum, 0.5 mL each in two separate vials)  <b>and</b>  1 mL (Minimum: 0.5 mL) CSF (Label as SFINC)
<b>Collection:</b>	Routine blood and spinal fluid collections
<b>Special Processing:</b>	Lab Staff: Centrifuge blood specimen, <b>remove serum aliquot and separate into TWO vials containing 0.5-1 mL each</b> , refrigerate in a plastic screw-top vials.  Aliquot CSF into a sterile, plastic screw-top vial and refrigerate. Label specimen source as SFINC. Send at refrigerated temperatures. Forward promptly.  CSF stable refrigerated (preferred) for 28 days, Serum stable refrigerated for 14 days. See Mayo catalog for other temperature stability options.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	N/A

***Interpretive***

**Reference Range:**

CSF index: 0.00-0.70
CSF IgG: 0.0-8.1 mg/dL
CSF albumin: 0.0-27.0 mg/dL
 Serum IgG
0-4 months: 100-334 mg/dL
5-8 months: 164-588 mg/dL
9-14 months: 246-904 mg/dL
15-23 months: 313-1,170 mg/dL
2-3 years: 295-1,156 mg/dL
4-6 years: 386-1,470 mg/dL
7-9 years: 462-1,682 mg/dL
10-12 years: 503-1,719 mg/dL
13-15 years: 509-1,580 mg/dL
16-17 years: 487-1,327 mg/dL
> or =18 years: 767-1,590 mg/dL

Serum albumin  
> or =12 months: 3,500-5,000 mg/dL  
Reference values have not been established for patients who are younger than 12 months.

CSF IgG/albumin: 0.00-0.21  
Serum IgG/albumin: 0.0-0.4  
CSF IgG synthesis rate: 0-12 mg/24 h  
Albumin quotient: <14

**Critical Values:**

N/A

**Limitations:**

The CSF index can be elevated in other inflammatory demyelinating diseases such as neurosyphilis, acute inflammatory polyradiculoneuropathy, and subacute sclerosing panencephalitis.

**Methodology:**

IgG Index CSF/IgG Serum: Nephelometry  
Albumin Serum: Photometric

**References:**

[Mayo Clinic Laboratories](#) December 2024

**Updates:**

1/23/2018: Updated blood collection volume  
6/1/2021: Updated methods, reference range for albumin and specimen requirements.  
12/19/2024: Updates to reference ranges, albumin quotient added