

---

**Lab Dept:** Other Fluids

**Test Name:** IGG INDEX, CSF

---

***General Information***

**Lab Order Codes:** IGGI

**Synonyms:** Cerebrospinal Fluid (CSF) IgG Index

**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.**

---

***Logistics***

**Test Indications:** The CSF index is useful in the diagnosis of individuals with multiple sclerosis.

The index is independent of activity of the demyelinating process

**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

---

***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

**Draw Volume:** 4.5 mL blood  
1 mL CSF

**Processed Volume:** 1.5 mL (Minimum: 1 mL) serum (0.5 mL in two separate vials)  
**and**  
1 mL (Minimum: 0.5 mL) CSF (Label as SFINC)

**Collection:** Routine blood and spinal fluid collections

**Special Processing:** Lab Staff: Centrifuge blood specimen, **remove serum aliquot and separate into TWO vial containing 0.5 mL each**, refrigerate in a plastic screw-top vials.  
  
Aliquot CSF into a sterile, plastic screw-top vial and refrigerate. Label specimen source appropriately on each tube. Send at refrigerated temperatures. Forward promptly.

**Patient Preparation:** None

**Sample Rejection:** N/A

---

***Interpretive***

**Reference Range:**

CSF index:	0.00 - 0.85
------------	-------------

CSF IgG:	0.00 - 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 – 1170 mg/dL
2 – 3 years	295 – 1156 mg/dL
4 – 6 years	386 – 1470 mg/dL
7 – 9 years	462 – 1682 mg/dL
10 – 12 years	503 – 1719 mg/dL
13 – 15 years	509– 1580 mg/dL
16 – 17 years	487 – 1327 mg/dL
>or = 18 years	767 – 1590 mg/dL
Serum albumin: >or=12months	3500 - 5000 mg/dL <b>Note: Reference ranges have not been established for patients who are &lt;12 months of age.</b>
CSF IgG/albumin:	0.00 - 0.21 mg/dL
Serum IgG/albumin:	0.0 - 0.4 mg/dL
CSF IgG synthesis rate:	0 -12 mg/24 hours

**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 Web Page](#) June 2021

**Updates:**

1/23/2018: Updated blood collection volume  
6/1/2021: Updated methods, reference range for albumin and specimen requirements.