
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 Note: Reference ranges have not been established for patients who are <12 months of age. |
| 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.