

# Certification in Rare Neuroimmunologic Disorders Examination



## Candidate Handbook 2021

Application Deadline*	Testing Window
December 8, 2020	January 9 – January 23, 2021
May 5, 2021	June 5 – June 19, 2021

**\*Applications will not be accepted after this deadline**

Administered by:



1350 Broadway, Suite 800 | New York, NY 10018  
[www.ptcny.com/contact](http://www.ptcny.com/contact)

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*This Handbook contains necessary information about the Certification in Rare Neuroimmunologic Disorders (CRND) Examination. Please retain it for future reference. Candidates are responsible for reading these instructions carefully. This Handbook is subject to change.*

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## CONTACT INFORMATION

<p><b>Professional Testing Corporation (PTC)</b> <a href="http://www.ptcny.com">www.ptcny.com</a> (212) 356-0660</p>	<ul style="list-style-type: none"><li>• Apply for examination</li><li>• Obtain general application policy and procedure information</li><li>• Obtain information about testing policies and procedures</li><li>• Transfer to a new testing period</li><li>• Request Special Accommodations</li><li>• Request Hand Score</li><li>• Question about score reports</li><li>• Miscellaneous inquiries</li></ul>
<p><b>Prometric</b> <a href="http://www.prometric.com/CMSC">www.prometric.com/CMSC</a> (800) 741-0934</p>	<ul style="list-style-type: none"><li>• Schedule test appointment</li><li>• Reschedule test appointment (within a testing period)</li><li>• Cancel test appointment</li><li>• Find directions to test site</li><li>• Questions regarding testing sites and appointments</li></ul>
<p><b>Consortium of Multiple Sclerosis Centers (CMSC)</b> <a href="http://www.mscares.org">www.mscares.org</a> (201) 487-1050</p>	<ul style="list-style-type: none"><li>• General information</li></ul>

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## ATTENTION CANDIDATES

This handbook contains necessary information about the Certification in Rare Neuroimmunologic Disorders (CRND) Examination. It is required reading for those applying for and taking the Examination. All individuals applying for the examination must comply with the policies, procedures, and deadlines in this Handbook and attest to this by signing the Candidate Attestation found on the application. Please retain this handbook for future reference. This handbook is subject to change. See [www.ptcny.com](http://www.ptcny.com) for handbook updates.

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## **PURPOSES OF CERTIFICATION IN RARE NEUROIMMUNOLOGIC DISORDERS**

Rare neuroimmunologic disorders are complex with potentially lifelong complications that affect many aspects of an individual's life. These rare autoimmune disorders of the central nervous system include Neuromyelitis Optica Spectrum Disorder (NMOSD), Transverse Myelitis (TM), Optic Neuritis (ON), Acute Disseminated Encephalomyelitis (ADEM), and Anti-NMDA Receptor Encephalitis (NMDAR-Ab). Management of these disorders will require the expertise of multiple disciplines working together to meet the dynamic needs of the person and the family. Rapid advances in the treatment of rare neuroimmunologic disorders require that health professionals have the basic knowledge and skills necessary to provide optimal care. The Consortium of Multiple Sclerosis Centers supports a voluntary certification process that reflects the knowledge of multiple disciplines in the specialized care of rare neuroimmunologic disorders.

Certification is intended to promote quality and consistent care to those living with rare neuroimmunologic disorders by:

1. Formally recognizing knowledge across the multiple disciplines that are necessary for rare neuroimmunologic disorders care delivery.
2. Establishing a level of knowledge required for Certification in Rare Neuroimmunologic Disorders.
3. Providing encouragement for continued personal and professional growth in the care of individuals with rare neuroimmunologic disorders.
4. Providing a standard of knowledge requisite for certification, thereby assisting the employer, public, and members of the health professions in the assessment of healthcare professionals involved in the care of people with rare neuroimmunologic disorders.

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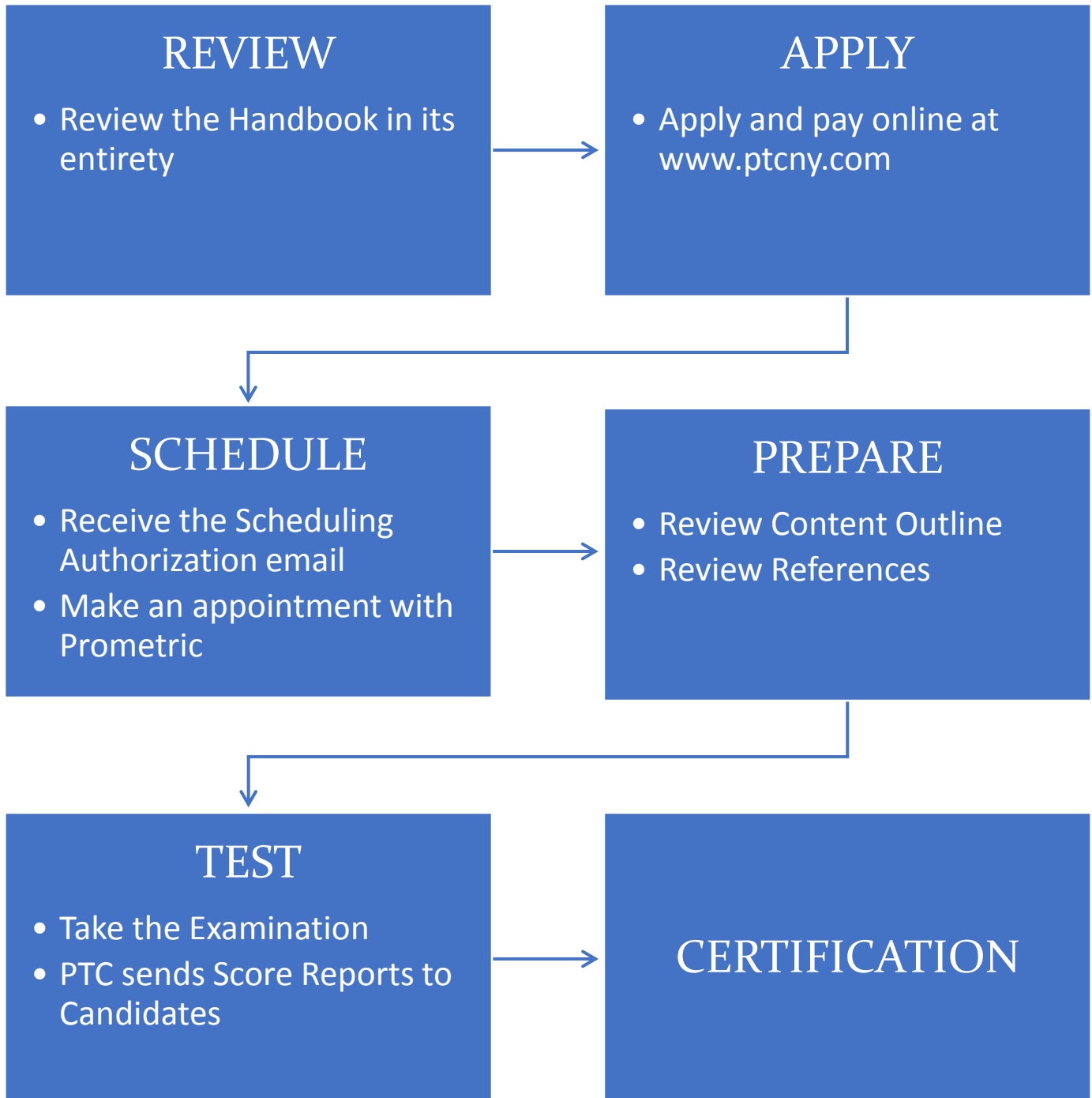
## **DEFINITION OF CARE FOR RARE NEUROIMMUNOLOGIC DISORDERS**

Rare neuroimmunologic disorders may cover clinical practice concepts underlying clinical practice, assessment and interventions in clinical practice, advocacy, education, and research. This may include but is not limited to health professionals who practice in the following settings:

- ◆ Private Medical Practices
- ◆ Rehabilitation Centers (acute or sub-acute)
- ◆ Hospitals
- ◆ Multiple Sclerosis Centers or Clinics
- ◆ Home or Community Care Programs
- ◆ Long Term Care Facilities
- ◆ Assisted Living Facilities
- ◆ Pharmaceutical or other Commercial Organization
- ◆ Academic Programs
- ◆ Research Facilities

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## THE CERTIFICATION PROCESS



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## ELIGIBILITY REQUIREMENTS

It is suggested that candidates have a minimum of one year of experience in providing services for or interacting with individuals with rare neuroimmunologic disorders. Candidates must meet the following requirements:

1. Be a currently licensed (or appropriate equivalent) healthcare professional. A copy of your license or certification must be submitted with your application.
2. Complete and file an Application for the Certification in Rare Neuroimmunologic Disorders Examination.
3. Pay the required fee.

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## COMPLETION OF APPLICATION

### ***Step 1 – Complete Application***

Go to <http://www.ptcny.com/test-sponsors/CMSC> to view examination testing periods, application deadlines, and link to the online application. You must complete the examination application in full, using your name exactly as it appears on your current government issued photo ID such as a driver's license or a passport. Applications are not considered complete until all information and payment has been provided. The completed application can be submitted and paid for online. Retain the link to the application and your login information.

**Please note**, for new applications you will be asked to create a PIN number. This PIN will be used when going into your existing application.

### ***Step 2 – Submit Examination Fee and Application for Review***

Receive email from PTC stating that your payment and application has been received and under review.

### ***Step 3 – Receive Approval of Application***

Receive email from PTC stating that your application has been approved.

### ***Step 4 – Receive Scheduling Authorization and Schedule Testing Appointment***

Within eleven (11) weeks prior to the start of the testing period, candidates will receive a Scheduling Authorization from PTC via email from [notices@ptcny.com](mailto:notices@ptcny.com). The Scheduling Authorization includes an eligibility number and information on how to set up your examination location, date, and time through Prometric. Retain this document.

You must present your current driver's license, passport, or U.S. Military ID at the testing center at the time of your examination appointment or you will be refused admission. The name on the ID must exactly match the name on the Scheduling Authorization.

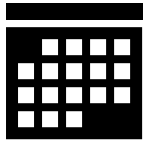
**Applicants who are not approved to sit for the examination or whose applications are incomplete 21 days prior to the first day of the testing window will receive a refund of their application fee minus the \$75 administrative fee. Refunds will be processed approximately 30 days after the end of the testing period.**

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## EXAMINATION ADMINISTRATION AND SCHEDULING

The Certification in Rare Neuroimmunologic Disorders Examination is administered during an established two-week testing window on a daily basis, excluding holidays, at computer-based testing facilities managed by Prometric.

### Scheduling Examination Appointments



Approximately eleven (11) weeks prior to the start of the testing window, approved candidates will be emailed a Scheduling Authorization from **notices@ptcny.com**. Please ensure you enter your correct email address on the application and add the 'ptcny.com' domain to your email safe list. If you do not receive a Scheduling Authorization eight (8) weeks prior to the start of your chosen testing window contact the Professional Testing Corporation at (212) 356-0660 or online at [www.ptcny.com/contact](http://www.ptcny.com/contact).

The Scheduling Authorization will indicate how to schedule your examination appointment with Prometric as well as the dates during which testing is available. Appointment times are first-come, first-served, so schedule your appointment as soon as you receive your Scheduling Authorization in order to maximize your chance of testing at your preferred location and on your preferred date. **Candidates who wait until the last minute run the risk of missing out on their preferred date, time, and testing center. Candidates unable to schedule an appointment will forfeit their fees.**

Candidates unable to take the examination during their chosen testing window will need to reapply for the examination and pay a new application fee.

After you make your test appointment, Prometric will send you a confirmation email with the date, time, and location of your exam. Please check this confirmation carefully for the correct date, time, and location. Contact Prometric at (800) 741-0934 if you do not receive this email confirmation or if there is a mistake with your appointment.

**Note: International candidates may also schedule, reschedule, or cancel an appointment online at <http://www.prometric.com/CMSC>.**

#### **IMPORTANT!**

You **MUST** present your current driver's license, passport, or U.S. military ID at the test center. Expired, temporary, or paper driver's licenses will **NOT** be accepted.

The first and last name on your Scheduling Authorization **MUST** exactly match the first and last name on your photo ID.

**Fees will not be refunded for exams missed because of invalid ID.**

### Rescheduling Examination Appointments within a Testing Period

Candidates are able to reschedule their examination appointments within the same testing period as long as the request is submitted within the timeframe described below. Reschedule within the permitted time frame by calling or going to the Prometric website: [www.prometric.com/CMSC](http://www.prometric.com/CMSC).

Time Frame	Reschedule Permitted?	Stipulations
Requests submitted 30 days or more before the original appointment	Yes	None
Requests submitted 29 to 5 days before the original appointment	Yes	Candidate must pay Prometric a rescheduling fee of \$50.
Requests submitted less than 5 days before the original appointment	No	Candidates who do not arrive to test for their appointment will be considered a no-show and all their examinations fees will be forfeited. Candidates will need to reapply and pay fees for a future testing period.

## Transferring to a New Testing Period

Candidates unable to take the examination during their scheduled testing period may request a **ONE-TIME** transfer to a future testing period. **There is a transfer fee of \$190.00.** After you have transferred once by paying the \$190.00 fee, you will need to pay the full examination fee in order to transfer a second time; so, ***please plan carefully.***

**Please note:** requests to transfer to a new testing period must be received within 30 days of your originally scheduled testing period.

Candidates wishing to transfer to a new testing period need to follow the steps below.

1. Go to <http://secure.ptcny.com/apply>.
2. Click "Start New Application."
3. Choose CMSC-CRND in the first drop-down menu; then choose the new examination period in the second drop down menu and fill out the rest of the information on the page.
4. Fill out the application making sure you answer yes to the question asking if you are transferring.
5. When you have finished the application, click "Submit Transfer Request."
6. PTC Support will send you an email letting you know your transfer application was approved and that you can log back into your application and pay the one-time \$190.00 transfer fee.

Call 212-356-0660 if you have any questions regarding the transfer process.

If candidates are unable to attend the examination on the date for which they registered and elect not to transfer to another testing period the application will be closed and all fees will be forfeited. There will be no refund of fees.

The transfer fee is based on costs and is not punitive in nature. The transfer fee must be paid at the time the request is approved. The candidate is responsible for contacting Prometric and canceling the original examination appointment, if one was made.



**Exams may only be transferred to a new testing period once; please plan carefully.**

Please note: Transferring your Examination only refers to instances when a candidate is unable to take their exam during a testing period for which they have already applied. Candidates who did not pass their examination and are retaking the examination need to pay the full Examination Fee.

### Failing to Report for an Examination



If you fail to report for an examination, you will forfeit all fees paid to take the examination. A completed application form and examination fee are required to reapply for the examination.

## EXAMINATION FEES

Fee Type	Amount	Details
Application Fee	US \$345.00	<ul style="list-style-type: none"><li>• Non-refundable</li><li>• Non-transferable</li><li>• Includes testing center fees</li><li>• Includes non-refundable \$75 administrative fee</li></ul>
Rescheduling Fee (29-5 days prior to scheduled appointment; see page 6)	US \$50.00	<ul style="list-style-type: none"><li>• <b>Applies to candidates who need to move their appointment within their current testing period</b></li><li>• Payable directly to Prometric</li><li>• Reschedule with Prometric online or over the phone</li></ul>
Transfer Fee (Moving to a new testing window; see page 7)	US \$190.00	<ul style="list-style-type: none"><li>• <b>Applies to candidates who need to move to a new testing period</b></li><li>• Must submit new application &amp; fee to PTC</li></ul>

**All fees are non-refundable and non-transferable.**



There will be no refund of fees. **Please be advised: Prometric does not have the authority to grant transfers to another testing period or refunds. All requests must be made through PTC.**

Applicants who are not approved to sit for the examination or whose applications are incomplete 21 days prior to the first day of the testing window will receive a refund of their application fee minus the \$75 administrative fee. Refunds will be processed approximately 30 days after the end of the testing period.

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## SPECIAL ACCOMMODATIONS

CMSC and PTC support the intent of and comply with the Americans with Disabilities Act (ADA). PTC will take steps reasonably necessary to make certification accessible to persons with disabilities covered under the ADA. According to the ADA, an individual with a disability is a person who has a physical or mental impairment that substantially limits a major life activity (such as seeing, hearing, learning, reading, concentrating, walking) or a major bodily function (such as neurological, endocrine, or digestive system). The information you provide and any documentation regarding your disability and special test accommodations will be held in strict confidence.

All approved testing accommodations must maintain the psychometric nature and security of the examination. Accommodations that fundamentally alter the nature or security of the exam will not be granted.

Special testing arrangements may be made upon receipt of the Application, examination fee, and a completed and signed Request for Special Needs Accommodations Form, available from [www.ptcnyc.com/PDF/PTC\\_SpecialAccommodationRequestForm.pdf](http://www.ptcnyc.com/PDF/PTC_SpecialAccommodationRequestForm.pdf) or by calling PTC at (212) 356-0660.

This Form must be uploaded with the online application no later than 8 weeks prior to the start of the chosen testing period.

**Only those requests made and received on the official Request for Special Needs Accommodations Form will be reviewed. Letters from doctors and other healthcare professionals must be accompanied by the official Form and will not be accepted without the Form. All requests must be made at the time of application. Accommodations cannot be added to an existing exam appointment.**

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## PREPARING FOR THE EXAMINATION

- Check your government issued photo ID (driver's license, passport or U.S. Military ID) when you make your examination appointment. Is it expired? Does the first and last name on your ID match the first and last name on your Scheduling Authorization email? Proctors at the Prometric testing center will refuse admission to candidates with expired IDs, IDs with names that do not match their records, and temporary paper IDs. Candidates will be marked as no-shows and will forfeit their exam fees.
- Check your PTC Scheduling Authorization email and Appointment Confirmation email from Prometric to make sure everything is accurate (i.e. your name, exam name, appointment date, time and location).
- Make yourself familiar with the location of your chosen testing site and any requirements they may have for parking and check the weather and traffic conditions before you leave for the testing center. Make sure you give yourself plenty of time to arrive as late arrival may prevent you from testing.
- In the event of inclement weather, check the Prometric website for site closures: <https://www.prometric.com/closures>.

- Prometric’s website provides information on what you can expect on your test day, including a walkthrough of check in and security procedures: [www.prometric.com](http://www.prometric.com).
- This Handbook provides the Content Outline for the Examination and references. Use these to help you start studying for the examination.
- Review What to Expect at the Test Center and Rules for the Examination on the next pages before your appointment.

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## WHAT TO EXPECT AT THE TESTING CENTER

PTC has partnered with Prometric Testing Centers to deliver examinations to candidates. Here is what you can expect when you arrive at your Prometric Testing Center.

- **Candidate Check-In**
  - Candidates will be asked to present their IDs
  - Candidates will be asked to empty and turn out their pockets
  - Candidates will be “wanded” or asked to walk through a metal detector
  - Inspection of eyeglasses, jewelry, and other accessories will be conducted. Jewelry other than wedding and engagement rings is prohibited.
  - Religious headwear may be worn into the testing room; however, it may be subject to inspection by a testing center administrator before entry into the testing room is permitted.
  - Prometric provides lockers for candidates to store their purses, mobile phones, jackets, food, drinks and medical supplies.
- **During the Exam**
  - No breaks are scheduled during the exam. Candidates who must leave the testing room to take a break will not be given extra time on the exam
  - Accessing mobile phones or study materials during the examination is prohibited
  - Smoking is prohibited at the testing center
  - All examinations are monitored and may be recorded in both audio and video format

Please keep in mind: other exams will be administered at the same time as your examination. Therefore, examinees may hear ambient noises such as typing, coughing, or people entering and exiting the testing room that cannot be avoided. Prometric is unable to provide a completely noise-free environment. However, headphones may be requested to minimize impact.

Please see [Prometric’s website](http://www.prometric.com) for more information about what to expect on testing day.

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## RULES FOR THE EXAMINATION

Please read the information below carefully. You are responsible for adhering to the examination rules while at the testing center.

- ⇒ You must present your current driver's license, passport, or US Military ID at the testing center. Candidates without valid ID will NOT be permitted to test. Temporary or paper copies of your ID will not be accepted.
- ⇒ Electronic devices that can be used to record, transmit, receive, or play back audio, photographic, text, or video content, including but not limited to, cell phones, laptop computers, tablets, Bluetooth devices; wearable technology (such as smart watches), MP3 players (such as iPods), pagers, cameras, and voice recorders are NOT permitted to be used and cannot be taken in the examination room. Prometric provides lockers for your personal items.
- ⇒ No papers, books, or reference materials may be taken into or removed from the testing room.
- ⇒ No questions concerning content of the examination may be asked during the examination session. The candidate should read carefully the directions that are provided on screen at the beginning of the examination session.
- ⇒ Candidates are prohibited from leaving the testing room while their examination is in session, with the sole exception of going to the restroom.
- ⇒ Bulky clothing, such as sweatshirts (hoodies), jackets, coats, and hats (except hats worn for religious reasons), and most types of jewelry may not be worn while taking the examination. Proctors will ask you to remove such items and place them in your locker. Please see [Prometric's statement on Test Center Security](#) for more information.
- ⇒ All watches and "Fitbit" type devices cannot be worn during the examination.
- ⇒ Food/beverages are not permitted inside the testing room. Leave these items in your assigned locker.



Contact PTC at (212) 356-0660 or [www.ptcny.com/contact](http://www.ptcny.com/contact) with any questions about the Examination Rules.

**Violation of any of the rules listed above may lead to forfeiture of fees, dismissal from the testing room, and cancellation of your test scores.**

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## TESTING CONDITIONS OR EXAMINATION FEEDBACK

Any candidate who feels that the examination effort was negatively impacted by the test center conditions should notify the proctor immediately. The situation should also be reported to PTC at [www.ptcny.com/contact](http://www.ptcny.com/contact) within 3 business days of the test appointment. Any comments about the test itself should also be reported to PTC at [www.ptcny.com/contact](http://www.ptcny.com/contact) within 3 business days of the test appointment.

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## REPORT OF RESULTS

Candidates will be notified in writing by PTC within four weeks of the close of the testing period whether they have passed or failed the examination. Scores on the major areas of the examination and on the total examination will be reported. Successful candidates will also receive certificates from the CMSC.

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## SCORING PROCEDURE

Prior to administration of the examination, representatives from the CMSC Certification Committee and the Professional Testing Corporation meet to review all test items for accuracy. At this meeting, the passing score for the examination is set using recognized psychometric methods. The passing score represents the number of test items determined necessary for the candidate to answer correctly to be considered as having minimal basic knowledge of rare neuroimmunologic disorders.

In order to protect the security and integrity of the certification examination, neither CMSC nor the Professional Testing Corporation will release examination items, candidate responses, or keys to any candidate or agency.

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## REQUESTING A HANDSCORE

Candidates who fail the examination may request a hand scoring of their data file. Hand scoring is a manual check of the data file by the testing service to determine if there have been any errors in scoring. Although the probability of such an error is extremely remote, this service is available. Requests for hand scoring must be received by PTC no later than 90 days after the date of the examination by completing and returning the Request of Handscore form on [www.ptcny.com](http://www.ptcny.com) with payment of \$25. Candidates who fail the examination will not be permitted to see the examination questions. For reasons of test security, no candidate is allowed to review the examination or any of its items.

To ensure correct reporting of results, PTC automatically performs handscores of examinations of candidates who score within 3 points of passing as a quality control measure. Thus, it is extremely doubtful that any examination results will change from “fail” to “pass” through handscoreing.

### Setting the Passing Score

The passing score for the Certification in Rare Neuroimmunologic Disorders Examination has been reviewed and approved by CMSC and has been determined using a criterion-referenced methodology.

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## **CONFIDENTIALITY OF EXAMINATION SCORES**

CMSC will release the individual test scores ONLY to the individual candidate. Any questions concerning test results should be referred to CMSC or PTC.

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## **REEXAMINATION**

The Certification in Rare Neuroimmunologic Disorders Examination may be taken as often as desired, upon filing of a new Application and fee. There is no limit to the number of times the examination may be repeated.

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## **ATTAINMENT OF REGISTRATION & RECERTIFICATION**

Eligible candidates who pass the Certification in Rare Neuroimmunologic Disorders Examination are eligible to use the registered designation CRND after their names and will receive certificates from the CMSC. A registry of Certification of Rare Neuroimmunologic Disorders credentialed individuals will be maintained by the CMSC and may be reported in its publications.

Certification as a CRND is recognized for a period of five years at which time the candidate must retake and pass the current Certification in Rare Neuroimmunologic Disorders Examination or meet such alternative requirements as are in effect at that time in order to retain certification. Additional information can be found at <http://www.ptcny.com/test-sponsors/CMSC>.

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## **REVOCATION OF REGISTRATION**

Certification will be revoked for any of the following reasons:

1. Falsification of Application.
2. Revocation of current healthcare credential or license.
3. Misrepresentation of certification status.

The Appeals Committee of the CMSC provides the appeal mechanism for challenging revocation of Board Certification. It is the responsibility of the individual to initiate this process.

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## CONTENT OF THE EXAMINATION

The Certification in Rare Neuroimmunologic Disorders Examination is a computer-based examination composed of a maximum of 175 multiple-choice, objective questions with a total testing time of three (3) hours. The content for the examination is described in the Content Outline on the next page.

The questions for the examination are obtained from individuals with expertise in electrodiagnostic technology and are reviewed for construction, accuracy, and appropriateness by the CMSC.

CMSC, with the advice and assistance of the Professional Testing Corporation, prepares the examination.

The Certification in Rare Neuroimmunologic Disorders Examination will be weighted in approximately the following manner:

I.	Scientific Basis for Rare Neuroimmunologic Disorders	20%
II.	Diagnosis	25%
III.	Treatment/Interventions	30%
IV.	Health Maintenance	15%
V.	Patient Empowerment	10%

**Please note: The Examination is based on research and information released as of March 2016.** The disorders covered in the Certification in Rare Neuroimmunologic Disorders Examination include the following:

Neuromyelitis Optica Spectrum Disorder (NMOSD)  
Transverse Myelitis (TM)  
Optic Neuritis (ON)  
Acute Disseminated Encephalomyelitis (ADEM)  
Anti-NMDA Receptor Encephalitis (NMDAR-Ab)

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### I. SCIENTIFIC BASIS FOR RARE NEUROIMMUNOLOGIC DISORDERS

#### A. Disease Process

1. Pathophysiology
2. Theories of Etiology
3. Epidemiology

#### B. Clinical Course

1. Acute
2. Chronic

### II. DIAGNOSIS

#### A. Diagnostic Criteria

#### B. Symptoms

1. Weakness/Paralysis
2. Altered Sensation
3. Pain
4. Hiccups/Nausea/Vomiting
5. Seizures
6. Speech Impairment

#### 7. Cognitive Impairment

#### 8. Respiratory Dysfunction

#### 9. Emotional Problems

#### 10. Visual Problems

#### 11. Altered Mobility/Balance

#### 12. Altered Elimination

#### 13. Fatigue

#### 14. Altered Speech/Swallowing

#### 15. Psychotic Symptoms

#### 16. Sexual Dysfunction

#### 17. Spasticity

#### 18. Tremors

#### 19. Autonomic Dysreflexia

#### 20. Other

#### C. Diagnostic Testing

### III. TREATMENT/INTERVENTIONS

#### A. Pharmacologic

1. Steroids

2. Intravenous Immunoglobulin
  3. Methotrexate
  4. Cyclophosphamide
  5. Azathioprine
  6. Rituximab
  7. Mycophenolate mofetil
  8. Other
  - B. Procedural
    1. Plasma Exchange
    2. Oophorectomy/Orchiectomy
  - C. Rehabilitation
    1. Physical Therapy
    2. Occupational Therapy
    3. Speech Therapy
    4. Cognitive Therapy
  - D. Symptom Management
- IV. HEALTH MAINTENANCE**
- A. Wellness Strategies
    1. Nutrition
    2. Exercise
    3. Immunizations
    4. Recreation
    5. Health Screening
    6. Stress Management
    7. Spirituality
    8. Activities of Daily Living
    9. Reproductive Issues
- V. PATIENT EMPOWERMENT**
- A. Advocacy
    1. Patient Rights
    2. Navigating the Healthcare System
  - B. Patient and Family Education

- B. Prevention of Complications
  1. Osteoporosis
  2. Contractures
  3. Skin Breakdown
  4. Aspiration
  5. Sepsis
  6. Falls
  7. Trauma
  8. Scoliosis
- C. Adaptation
  1. Educational Concerns
  2. Vocational
  3. Assistive Technology
- D. Psychosocial Issues
  1. Response to Illness
  2. Anxiety
  3. Depression
  4. Support Network
  5. Cultural Factors
  6. Family and Relationships
  7. Vocational
  8. Financial
  9. Abuse and Neglect
  10. End of Life
- E. Adherence to Treatment
- F. Models of Care
  1. Disease Specific
  2. Goal Setting
  3. Community Resources
  4. Legal/Regulatory Issues
  5. Advance Directives
  6. Clinical Research



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## SAMPLE EXAMINATION QUESTIONS

In the following questions, choose the one best answer.

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1. Which of the following are characteristics of NMOSD that are similar to multiple sclerosis?

1. Onset in early adulthood
2. Characteristic periventricular lesions
3. Progression of symptoms between attacks
4. Sudden relapses followed by periods of stability

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2. Which of the following is most common sequellae seen in patients with ADEM?

1. Seizures
2. Weakness
3. Urinary retention
4. Bowel incontinence

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3. Employment for patients who are capable of working is most beneficial because it

1. lowers risk of relapse.
2. guarantees access to a pension.
3. promotes self-worth and esteem.
4. increases effectiveness of therapy.

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4. When explaining recovery from NMDAR-Ab encephalitis to a patient's family, which of the following is the most appropriate way to describe the process?

1. The majority of patients do not experience a relapse
2. Recovery can only occur if the patient receives cyclophosphamide
3. There is no recovery unless a teratoma is found and surgically removed
4. Clinical recovery will occur as the NMDA receptor antibody titer diminishes

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5. In treatment of acute TM, methylprednisolone may work in part by

1. increasing blood flow.
2. reducing inflammation.
3. decreasing neutrophil counts.
4. promoting remyelination in the spinal cord.

ANSWER KEY	
Q	A
1	4
2	2
3	3
4	1
5	2

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## ONLINE PRACTICE TEST IN RARE NEUROIMMUNOLOGIC DISORDERS

**WHAT IS IT:** A practice test consisting of 50 questions with a testing time of 2 hours taken over the internet

**WHY TAKE IT:** To experience taking a computerized exam, to review an example of the type of content included in the Certification in Rare Neuroimmunologic Disorders Examination, and to learn more about question format, style, and level of difficulty

**SCORE REPORT:** After completing the online practice test, you will receive an instant score report showing test performance in each of the content areas. The score report does not provide correct answers or indicate which questions were answered correctly and incorrectly

**NOTE:** The online practice test is an optional tool candidates may use as they prepare for the certification examination. While the practice test may help candidates identify areas of strengths and weakness, it should not be used as the only means to determine candidate preparedness or readiness to test. Since the practice test is NOT intended to be a study guide nor the sole source of preparation for the actual certification examination, candidates are NOT provided with the answer key, rationales for each question, nor notification of which specific items were answered correctly or incorrectly.

Though the specific questions that are on the practice test will not appear on the actual certification examination, it allows candidates to become familiar with the style of questions that may be asked. The instant score report received after practice test submission shows overall test performance as well as performance in each of the content areas. Candidates may find this information useful in determining future study needs. Once the practice test is scored, candidates cannot return to the test to review the questions. Performance on the practice test does not guarantee similar performance on the actual certification examination.

The PTC Online Testing System does not demonstrate the testing software used during the certification examinations. Those who purchase the online practice test should be aware that they will use a different testing platform when they take certification examinations at designated proctored testing centers.

The practice test is not a requirement for certification eligibility nor does it contribute in any way to success on the certification examination. There are many ways candidates should prepare for the certification examination. Candidates should use a variety of resources and consider their own education and experiences. Review the content outline and reference materials listed in the handbook for additional exam-related information.

**FEE:** \$75 by credit card

**APPLY:** Go to <https://secure.ptcny.com/webtest/> and select Online Practice Test in Rare Neuroimmunologic Disorders

**FURTHER INFO:** Visit [www.ptcny.com](http://www.ptcny.com) or call Professional Testing Corporation at 212-356-0660

## REFERENCES

The Consortium of Multiple Sclerosis Centers (CMSC) has prepared a suggested reference list to assist in preparing for the Certification in Rare Neuroimmunologic Disorders Examination. These references contain journals and textbooks which include information of significance to rare neuroimmunologic disorder care. Inclusion of certain journals and textbooks on this list does not constitute an endorsement by the CMSC of specific professional literature which, if used, would guarantee candidates successful passing of the certification examination.

### JOURNALS

Alekna V., Tamulaitiene M., Sinevicius T., & Juocevicius, A. (2008). Effect of weight-bearing activities on bone mineral density in spinal cord injured patients during the period of the first two years. *Spinal Cord*, 46, 727-732.

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Greenberg, B. (2011). Treatment of Acute Transverse Myelitis and Its Early Complications. *CONTINUUM: Lifelong Learning in Neurology*, 17(4), 733-743.

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Kimbrough, D., Fujihara, K., Jacob, A., Lana-Peixoto, M., Leite, M., Levy, M., Wingerchuk, D. (2012). Treatment of neuromyelitis optica: Review and recommendations. *Multiple Sclerosis and Related Disorders*, 180-187.

Leypold, F., Armangue, T., & Dalmau, J. (2014). Autoimmune encephalopathies. *Annals of the New York Academy of Sciences*, 1-21.

Mealy M. A., Wingerchuk D. M., Greenberg B. M., & Levy M. (2012). Epidemiology of neuromyelitis optica in the United States: multicenter analysis. *Archives of Neurology*, 69(9), 1176-1180.

Oh, J., & Levy, M. (2012). Neuromyelitis Optica: An Antibody-Mediated Disorder of the Central Nervous System. *Neurology Research International*, 2012, 1-13.

Stockton L., Gebhardt K. S., & Clark M. (2009). Seating and pressure ulcers: Clinical practice guideline. *Journal of Tissue Viability*, 18, 98-108.

### WEBSITES

[www.encephalitis.info](http://www.encephalitis.info)

[www.guthyjacksonfoundation.org](http://www.guthyjacksonfoundation.org)

[www.myelitis.org](http://www.myelitis.org)

[www.spinalcordinjury.org](http://www.spinalcordinjury.org)

### BOOKS

*Multiple Sclerosis and Related Disorders Clinical Guide to Diagnosis, Medical Management, and Rehabilitation*. (2013). New York, New York: Demos Medical

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