Relevance of diagnostic investigations in chronic inflammatory demyelinating poliradiculoneuropathy: Data from the Italian CIDP database

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Abstract
The objective of our work was to report the clinical features and the relevance of diagnostic investigations in patients with chronic inflammatory demyelinating...
Chronic inflammatory demyelinating polyneuropathy (CIDP) is the most common chronic acquired demyelinating polyneuropathy with a prevalence ranging from 1 to 9 cases per 100,000.1,2 CIDP is considered an immune-mediated disease and often improves after immunotherapies.3-5 Typically, the clinical picture includes mostly symmetric proximal and distal muscle weakness, sensory loss, and decreased or absent deep tendon reflexes. The disease course is steadily or stepwise progressive over at least 2 months, or relapsing.3-5 Several variants have been described based on distribution of symptoms and signs.3-5

Diagnosis of CIDP can be challenging and, in recent years, several different sets of diagnostic criteria have been created with variable combinations of electrophysiological and/or clinical features.6-9 Currently, the most widely accepted criteria are those recommended by the European Federation of Neurological Societies and Peripheral Nerve Society (EFNS/PNS),9 that were shown to provide the best combination of sensitivity and specificity (about 75% and 90%, respectively) for the diagnosis of CIDP compared with the other criteria.10,11 A number of additional diagnostic investigations have been included in these criteria to support the diagnosis in patients not fulfilling the electrodiagnostic criteria. The relative diagnostic relevance of these investigations remains unclear and they are often unnecessarily performed in these patients.

We reviewed the data from a large cohort of patients included in the Italian CIDP database with the aim to analyze the clinical features, diagnostic investigations, and response to therapy in patients with CIDP and to analyze the contribute of additional investigations in improving the diagnostic certainty.

2 | PATIENTS AND METHODS

2.1 | Database and study population

This was a retrospective multicenter cohort study in large sample of prevalent CIDP patients in Italy, with additional follow-up data scheduled up to 2 years from enrolment. We implemented a web-based database (CINECA, Bologna, Italy) to collect data from patients with CIDP followed by 21 centers throughout Italy with expertise on CIDP. All CIDP patients visiting outpatient clinics of the participating neuromuscular expert centers were eligible for inclusion. Clinical and diagnostic data were obtained by experienced neurologist with a neuromuscular subspecialty. Verification of the diagnostic data for all of the enrolled patients were centralized in the principle study center.
(Humanitas), and based on expert panel consensus. Data monitoring included diagnosis revision, suspect double entries, missing data, and plausibility checks. We excluded patients with an alternative diagnosis for the neuropathy, increased titers of anti-myelin-associated glycoprotein (MAG) IgM antibodies (over 7000 Unit by Buhlman method in our laboratory) or without available nerve conduction studies (NCS).

The study was approved by the Ethical Committee of each participating Center. All the patients gave written informed consent.

### 2.2 Clinical assessment and ancillary tests

The patients were subjected to detailed clinical history including duration of weakness, sensory symptoms, ataxia, pain, and autonomic dysfunction. The course of the disease was defined by the treating neurologist as progressive or relapsing. A relapsing course was defined as a clinical worsening of the patient that was not related to a suspension or reduction of the dose of therapy. An acute (GBS-like) onset was also reported and defined as a neuropathy that was initially diagnosed as GBS but that continued to progress or relapsed after more than 2 months from disease onset. Response to previously performed therapy was reported by the treating neurologist and defined as improvement, stability or worsening. Response to therapies was defined as an improvement of ≥2 points at MRC scale or an improvement of ≥1 point at INCAT scale.

The clinical evaluation at enrollment included assessment of muscle strength with the Medical Research Council (MRC) scale, range 1 to 60, sensory function with the INCAT sensory sum score (ISS), range 1 to 20, and neurological disability with INCAT scale, range 0 to 10. Cranial nerve involvement included assessment of III, IV, V, VI, VII, VIII, IX, X nerves, either considering a partial or complete paralysis, either unilateral or bilateral involvement.

Results of cerebrospinal fluid (CSF) examination performed during the course of the disease, including total protein level and cell counts, were reported. As to protein counts, we considered as upper referential limit 50 mg/dL for patients aged ≤50 years and 60 mg/dL for those aged >50 years. Moreover, we collected the results of nerve ultrasound (US), considering as abnormal a sonographic enlargement of proximal median nerve segments in the arms and brachial plexus; MRI examination and sural nerve biopsy results were considered abnormal based on the indication of EFNS/PNS criteria. NCS data were centrally reviewed based on rater experience, taking in consideration a tabulated summary of results provided by each center.

### 2.3 Statistical analysis

Descriptive statistics were reported for the sample of patients with CIDP overall and separately for the subgroups with a relapsing or progressive course or an acute onset of CIDP. Categorical variables were described using frequencies and percentages, while continuous variables using mean, medians, and ranges. Demographic and clinical features, including response to therapy, were compared between different subgroups of patients with the chi-square or the Fisher’s exact test for categorical variables, and with the t test or the Wilcoxon-Mann-Whitney test for continuous variables. Considering that each variable was analyzed at maximum two times, we considered as statistical significant a value of \( P = .025 \) (0.05*2), in order to reduce type I error. Analyses were performed with IBM SPSS Statistics for Windows, Version 19.0 (Armonk, New York: IBM Corp).

### 3 RESULTS

From January 2015 to January 2019 we enrolled 545 patients in our database (Figure 1). Twenty-four patients were excluded from the analysis for the presence of a different cause for neuropathy and 21 patients for unavailable neurophysiological data. A total of 500 patients were included in the study. At study entry, 437 patients fulfilled the EFNS/PNS criteria including two patients with typical chronic immune sensory polyradiculopathy (CISP) and normal motor somatosensory evoked potentials (SSEP). We used the electrodiagnostic criteria for demyelination proposed by the EFNS/PNS. NCS data were centrally reviewed based on rater experience, taking in consideration a tabulated summary of results provided by each center.
conduction studies. Sixty-three (13%) patients had a medical history and clinical signs compatible with CIDP without fulfilling the EFNS/PNS electrodiagnostic criteria, but fulfilling at least one supportive criterion (Figure 1).

### 3.1 Demographic and clinical features of patients fulfilling EFNS/PNS criteria for CIDP

Of the 437 patients fulfilling the EFNS/PNS criteria, 282 were men (65%) and 155 women (35%) (ratio: 1.83:1) with a mean age at inclusion of 58.1 years (median 60; range 11-92), a mean age at onset of 49.9 years (median 51; range 6-86 years), a mean disease duration of 8.1 years (median 5; range 0.2-52 years), and a mean INCAT score at enrollment of 2.6 (median 2; range 0-10; Table 1).

Even if the majority of patients had sensorimotor symptoms at onset (51.4%), a consistent proportion of them had purely sensory (31.4%) or motor symptoms (15.4%) at onset while occasional patients presented with pain, diplopia or ataxia (Table 1). Almost all patients with typical CIDP (98.4%) had sensorimotor symptoms at the time of enrollment while in three patients motor symptoms were associated with pain and in four patients sensory symptoms with only motor cranial nerve involvement.

The diagnosis was of typical CIDP in 353 (80.8%) patients and of atypical CIDP in 84 (19.2%) according to our criteria.17 The diagnosis of CIDP according to EFNS/PNS criteria was definite for 407 patients (93.1%) and probable for 26 patients (6%); only four patients (0.9%) had a diagnosis of possible CIDP. Within the group of patients with definite CIDP, 352 patients (86.4%) fulfilled definite electrodiagnostic criteria, while in 55 patients diagnosis of definite CIDP was obtained with the combination of electrodiagnostic and supportive criteria: 20 patients (4.9%) with probable CIDP plus at least one supportive criterion, 35 patients (8.7%) with possible CIDP plus at least two supportive criteria. Within the group of patients with probable CIDP, three patients fulfilled probable electrodiagnostic criteria, while 23 patients had a possible CIDP plus one supportive criterion. Consequently, we could improve the certainty of diagnosis by means of supportive criteria (from possible to definite, from probable to definite, from definite to very definite).
from possible to probable) for 78 patients, while in seven cases supportive criteria were not sufficient to improve diagnosis.

As to clinical course, a similar proportion of patients had a relapsing (53%) or progressive (47%) course, while in five patients the course was not specified (Tables 1 and 2). Patients with a relapsing course were younger at onset and at enrollment than those with a progressive course. They also had a lower INCAT score, a trend toward a more frequent acute CIDP onset and toward a less frequent response to intravenous immunoglobulins (IVIg; Table 2).

In 41 patients (9%), there was an acute onset of CIDP that was followed by a relapsing (68%) or progressive course (32%). Patients with an acute onset of CIDP were younger, had a trend toward a worse INCAT score at entry, a more frequent involvement of strength and cranial nerve and a more frequent response to therapy than patients without an acute onset (Table 3).

3.2 | Diagnostic investigations and response to therapy in patients fulfilling EFNS/PNS criteria for CIDP

For 346 patients (86%) the diagnosis of definite CIDP was possible through the presence of motor nerve conduction abnormalities consistent with demyelination according to the EFNS/PNS criteria (mean number of motor nerves examined 5.6, median 6, range 2-8). Abnormality consistent with demyelination in at least two motor nerves were found on conduction velocity in 177 patients (51%), conduction block in 157 (45%), increased temporal dispersion in 122 (35%), increased DL in 69 (20%), and increased minimal F-wave in 32 (9%).

Among the 85 patients with NCS-possible or NCS-probable CIDP who improved (78 patients) or not (seven patients) the certainty of their diagnosis with supportive criteria, 47 (55%) had increased CSF proteins, 23 (27%) demyelinating features on sensory NCS or evoked potential, three (3.5%) demyelinating or inflammatory findings on nerve biopsy and seven (8%) enlargement or enhancement of nerve, plexus or roots by US or MRI (Figure 2). Response to immunotherapies was present in 65 patients (76.5%); notably, in 40 patients (47%) response to immune therapy improved diagnostic definition when the other supportive criteria were not sufficient. The evaluation of supportive criteria was not uniformly performed in these patients, so the ratios between positive patients/examined patients were as follows: increased CSF protein in 47/79 cases (59.4%), sensory nerve demyelination in 23/72 cases (32%), abnormal nerve biopsy in 3/7 cases (43%), abnormal US/MRI in 7/16 cases (43.7%), and response to therapy in 65/77 cases (84.4%) (Figure 2).

Among the total 437 CIDP patients, 336 (77%) underwent CSF examinations showing increased CSF proteins in 230 (68%, mean 106.1 mg/dL; median 75 mg/dL; ≥80 mg/dL in 47% of patients); as to white cell count, only in 10 patients we found >10 cells/μL (higher value 45 cells/μL in one case). Sensory conduction or SSEP studies were performed in 394 (90.2%) patients, and demyelinating findings in 150 (38%) patients (mean number of sensory nerves examined 3.7, median 4). We combined data on SSEP and NCS since we had data on SSEP only for 27 patients so was not useful to analyze separately. Nerve biopsy was performed in 35 (8%) patients showing signs of demyelination or inflammatory infiltrates in 21 (60%); 65 (14.9%) patients performed US or MRI and in 50 (77%) cases there were nerve or roots enlargement or contrast enhancement.

Improvement after any of the immune therapy used was observed in 338/393 (86%) treated patients while 51 (13%) treated patients remained stable and 5 (1%) worsened despite therapy (Table 1). Improvement after therapy with high dose IVIg was reported in 244/334 (73%) treated patients and after oral or intravenous corticosteroids in 123/235 (52%) treated patients. Only 43 patients were treated with plasma exchange with an improvement observed in 25 (52%). Subcutaneous immunoglobulins (SCIg) were used in 65 patients previously treated with IVIg with improvement (43%) or stability (48%) in the majority of them. Immunosuppressive agents (including Azathioprine, Cyclophosphamide, Mycophenolate Mofetil, Methotrexate, Cyclosporine, Rituximab) were used in 97 patients with a reported improvement in 31 (32%), including 12 patients in whom improvement was only related to this therapy (5 Rituximab, 2 Cyclophosphamide, 2 Mycophenolate, and 3 Azathioprine).

4 | DISCUSSION

Currently, the most used CIDP criteria in clinical trial and in clinical practice are EFNS/PNS criteria,9 since different comparison studies confirmed that they offer the best combination in terms of sensitivity/specifity. In these criteria, a number of supportive investigations were included to improve the diagnostic certainty in patients not fulfilling the electrodiagnostic criteria. However, the relative diagnostic relevance of these investigations remains unclear. In addition, they do not allow a diagnosis of CIDP in patients not having a demyelinating feature in at least one motor nerve, so that they may only improve the diagnostic certainty in patients already fulfilling a possible or probable diagnosis.

We reviewed the data from 500 patients with a diagnosis of CIDP and its variants included in the Italian CIDP database. Within this group, 437 (87.4%) patients had a diagnosis of CIDP according to EFNS/PNS criteria while 63 (12.6%) patients, despite the presence of clinical signs and symptoms compatible with this diagnosis, did not fulfill ENFS/PNS criteria, confirming the reported sensitivity of these criteria.10,11

Our study provides some information on the frequency and clinical features of patients with CIDP in relation to the type of disease onset and clinical course. A similar proportion of patients had a progressive or relapsing course. Patients with a progressive course had a later age at onset and a more severe impairment compared to patients with a relapsing course despite a similar disease duration, confirming previously reported observations.18 They also had a slightly more frequent response to IVIg than patients with a relapsing course. Patients with an acute onset of CIDP had a younger age at onset and a higher severity than patients without an acute onset. They also had a lower...
frequency of sensory symptoms at onset and a higher frequency of motor and cranial nerve involvement during the disease compared to patients without an acute onset. Similar differences were recently reported between patients with GBS and patients with acute-onset CIDP who were less impaired, had less frequent cranial nerve dysfunction and more frequent sensory disturbances, possibly suggesting that patients with an acute-onset CIDP may have some overlapping features between typical CIDP and GBS.

In the vast majority of patients with CIDP, motor NCS were sufficient to confirm the diagnosis. In 352 patients (80.5%) with a definite diagnosis of CIDP this diagnosis was possible with only motor NCS, while in 75 patients (17.1%) supportive criteria helped to improve the diagnostic certainty. In order to exclude differences in the performed electrodiagnostic tests, we analyzed mean number of nerve tested among the three subgroup of definite, probable and possible CIDP and we found following value: 5.6 vs 5.3 vs 4.6, respectively (P = .001). The difference was statistically significant but the mean number of nerve tested in the possible patients (4.6) can be considered clinically relevant to formulate a correct diagnosis.

### TABLE 2
Comparison of demographic, clinical, and laboratory/instrumental test results in patients with progressive or relapsing CIDP

<table>
<thead>
<tr>
<th></th>
<th>Relapsing (n = 228)</th>
<th>Progressive (n = 204)</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender (% F)</td>
<td>35.1%</td>
<td>35.7%</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>Age at onset (y, mean ± SD)</td>
<td>47.4 ± 16.77</td>
<td>52.8 ± 16.74</td>
<td>.001</td>
</tr>
<tr>
<td>Age at enrollment (y, mean ± SD)</td>
<td>56.1 ± 15.17</td>
<td>60.6 ± 15.03</td>
<td>.003</td>
</tr>
<tr>
<td>Disease duration (y, mean ± SD)</td>
<td>8.5 ± 9.12</td>
<td>7.6 ± 7.43</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>INCAT at enrollment (±SD)</td>
<td>2.3 ± 2.05</td>
<td>2.9 ± 1.91</td>
<td>&lt;.001</td>
</tr>
</tbody>
</table>

#### Symptoms at onset

- **Motor**: 31 (13.6%) vs 38 (18.7%) (P = >.1)
- **Sensory**: 78 (34.4%) vs 67 (32.8%) (P = >.1)
- **Sensorimotor**: 114 (50%) vs 95 (46.5%) (P = >.1)
- **Pain**: 2 (0.8%) vs 2 (1%) (P = NA)
- **Diplopia**: 2 (0.8%) vs 1 (0.5%) (P = NA)
- **Ataxia**: 1 (0.4%) vs 0 (P = NA)
- **Fatigue**: 0 vs 1 (0.5%) (P = NA)

#### Symptoms at enrollment

- **Motor**: 203 (89.0%) vs 187 (91.7%) (P = >.1)
- **Sensory**: 219 (96.1%) vs 197 (96.6%) (P = >.1)
- **Fatigue**: 124 (54.4%) vs 109 (53.4%) (P = >.1)
- **Pain**: 71 (31.1%) vs 65 (31.9%) (P = >.1)
- **Cramps**: 32 (14.0%) vs 33 (16.2%) (P = >.1)
- **Ataxia**: 72 (31.6%) vs 55 (27.0%) (P = >.1)
- **Tremor**: 22 (9.6%) vs 28 (13.7%) (P = >.1)
- **Cranial nerves impairment**: 48 (21.1%) vs 41 (20.1%) (P = >.1)
- **Dysautonomia**: 18 (7.9%) vs 14 (6.9%) (P = >.1)

#### Clinical phenotype

- **Typical/atypical (% atypical)**: 186/42 (84.4%) vs 164/40 (80.0%) (P = >.1)
- **Acute onset**: 28 (12.3%) vs 13 (6.4%) (P = .048)

#### Supportive criteria

- **Increased CSF proteins/mean (mg/dL)**: 120/177 (67.8%) vs 104/153 (67.9%) (P = >.1)
- **CSF proteins ≥ 80 mg/dL**: 82 (46.3%) vs 72 (47.1%) (P = >.1)
- **Sensory nerve demyelination/tested**: 70/192 (36.5%) vs 66/182 (36.3%) (P = >.1)

#### Response to overall therapies/treated

- **Response to IVIg/steroids**
  - **Relapsing**: 178/205 (86.8%) vs 158/186 (84.9%) (P = >.1)
  - **Progressive**: 121/177 (68.4%) vs 122/155 (78.7%) (P = .035)

Abbreviations: CIDP, chronic inflammatory demyelinating polyradiculoneuropathy; CSF, cerebrospinal fluid; IVIg, intravenous immunoglobulins.
however, performed in a much larger proportion of patients, parti-
cularly in the case of CSF studies performed in 336 patients (77%), while
nerve biopsy and nerve or roots US/MRI were performed in
35 patients (8%) and 65 patients (15%), respectively. In our opinion, it
is not possible to infer data on sensitivity about biopsy, US and MRI
because there could be a strong selection bias, since tests were per-
formed in a very limited percentage of cases.

Overall, our findings support the opinion proposed by the EFNS/
PNS that these studies should be probably restricted to patients in
whom a definite diagnosis of CIDP is not reached with motor elec-
trodiagnostic studies unless a possible alternative diagnosis is
considered.

Limitations of this study include its retrospective nature with the
possibility to have less accurate data on patients with a longer disease
duration and the lack of a control sample of patients not affected with
CIDP. Moreover, US/MRI and nerve biopsy are not routinely per-
formed exams, so we have data from few patients. Data on response
to therapy should be also considered with caution as they were mainly
based on the clinicians’ reports and patients’ view and were not
homogeneously verified with a standardized procedure. Nevertheless,
the frequency of response to therapies was similar to what reported
in the literature,21-26 supporting the fact that this study was per-
formed in centers with expertise on this disease. Despite these limita-
tions, the observational nature of this study, in addition to the large

### TABLE 3
Comparison of demographic, clinical, and laboratory/instrumental test results in patients with acute-onset or not acute-onset CIDP

<table>
<thead>
<tr>
<th></th>
<th>Acute-onset CIDP (n = 41)</th>
<th>Not acute-onset CIDP (n = 391)</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender (%F)</td>
<td>34.1%</td>
<td>35.5%</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>Age at onset (y, mean ± SD)</td>
<td>45.2 ± 19.27</td>
<td>50.3% ± 17.87</td>
<td>.063</td>
</tr>
<tr>
<td>Age at enrollment (y, mean ± SD)</td>
<td>52.7 ± 17.46</td>
<td>58.6 ± 16.23</td>
<td>.017</td>
</tr>
<tr>
<td>Disease duration (y, mean ± SD)</td>
<td>7.6 ± 9.97</td>
<td>8.1 ± 8.43</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>INCAT at enrollment (±SD)</td>
<td>3.2 ± 2.47</td>
<td>2.5 ± 2.78</td>
<td>.048</td>
</tr>
</tbody>
</table>

#### Symptoms at onset

<table>
<thead>
<tr>
<th></th>
<th>Acute-onset CIDP</th>
<th>Not acute-onset CIDP</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>37 (17.1%)</td>
<td>62 (15.8%)</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>Sensory</td>
<td>37 (17.1%)</td>
<td>138 (35.2%)</td>
<td>.035</td>
</tr>
<tr>
<td>Sensorimotor</td>
<td>25 (60.9%)</td>
<td>184 (47%)</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>Pain</td>
<td>0</td>
<td>4 (0.1%)</td>
<td>NA</td>
</tr>
<tr>
<td>Diplopia</td>
<td>2 (4.9%)</td>
<td>1 (0.2%)</td>
<td>NA</td>
</tr>
<tr>
<td>Ataxia</td>
<td>0</td>
<td>1 (0.2%)</td>
<td>NA</td>
</tr>
<tr>
<td>Fatigue</td>
<td>0</td>
<td>1 (0.2%)</td>
<td>NA</td>
</tr>
</tbody>
</table>

#### Symptoms at enrollment

<table>
<thead>
<tr>
<th></th>
<th>Acute-onset CIDP</th>
<th>Not acute-onset CIDP</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>41 (100%)</td>
<td>348 (91%)</td>
<td>.014</td>
</tr>
<tr>
<td>Sensory</td>
<td>39 (95.1%)</td>
<td>375 (95.9%)</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>Fatigue</td>
<td>24 (58.5%)</td>
<td>210 (53.7%)</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>Pain</td>
<td>17 (41.5%)</td>
<td>121 (30.9%)</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>Cramps</td>
<td>2 (4.9%)</td>
<td>63 (16.3%)</td>
<td>.069</td>
</tr>
<tr>
<td>Ataxia</td>
<td>12 (29.3%)</td>
<td>114 (29.1%)</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>Tremor</td>
<td>9 (22%)</td>
<td>43 (10.9%)</td>
<td>.076</td>
</tr>
<tr>
<td>Cranial nerves impairments</td>
<td>21 (51.2%)</td>
<td>68 (17.4%)</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Dysautonomia</td>
<td>5 (12.2%)</td>
<td>26 (6.6%)</td>
<td>&gt;.1</td>
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#### Clinical phenotype

<table>
<thead>
<tr>
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<th>Acute-onset CIDP</th>
<th>Not acute-onset CIDP</th>
<th>P-value</th>
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<tbody>
<tr>
<td>Typical/atypical (% atypical)</td>
<td>38/3 (7.3%)</td>
<td>315/76 (24.1%)</td>
<td>.057</td>
</tr>
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#### Supportive criteria

<table>
<thead>
<tr>
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<th>Acute-onset CIDP</th>
<th>Not acute-onset CIDP</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increased CSF proteins/tested</td>
<td>28/33 (90.9%)</td>
<td>202/313 (64.5%)</td>
<td>.019</td>
</tr>
<tr>
<td>Mean (mg/dL)</td>
<td>125.1</td>
<td>120.2</td>
<td>&gt;.1</td>
</tr>
<tr>
<td>CSF proteins ≥ 80 mg/dL</td>
<td>21 (63.4%)</td>
<td>120 (38.3%)</td>
<td>.008</td>
</tr>
<tr>
<td>Sensory nerve demyelination/tested</td>
<td>14/32 (43.7%)</td>
<td>128/356 (35.9%)</td>
<td>&gt;.1</td>
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<table>
<thead>
<tr>
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<th>Not acute-onset CIDP</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response to overall therapies/treated</td>
<td>38/39 (97.4%)</td>
<td>292/355 (82.2%)</td>
<td>.025</td>
</tr>
<tr>
<td>Response to IVIg/treated</td>
<td>30/35 (85.7%)</td>
<td>213/299 (71.2%)</td>
<td>.076</td>
</tr>
<tr>
<td>Response to steroids/treated</td>
<td>14/21 (67.7%)</td>
<td>108/214 (50.4%)</td>
<td>&gt;.1</td>
</tr>
</tbody>
</table>

Abbreviations: CIDP, chronic inflammatory demyelinating polyradiculoneuropathy; CSF, cerebrospinal fluid; IVIg, intravenous immunoglobulins.
number of our collected sample, is a unique opportunity to provide information on the clinical features of patients with CIDP and to verify the usefulness and the critical points of currently used diagnostic criteria in a real-world clinical practice setting.

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CONFLICT OF INTERESTS

Dr Eduardo Nobile-Orazio reported personal fees for Advisory or Scientific Board from Kedrion, Italy, Baxter, Italy, Novartis, Switzerland, CSL-Behring, Italy, LFB, France, Astellas, The Netherlands, outside the submitted work and travel grants to attend Scientific Meeting from Baxter, Grifols, Kedrion, and Novartis, Italy. Dr Pietro Emiliano Done-du reported travel grants to attend scientific meetings from CSL Behring and Kedrion. Dr Giuseppe Liberatore reported travel grants to attend scientific meetings from CSL Behring and Kedrion. Dr Giuseppe Liberatore contributed to the conception of the research project, reviewed and commented on the statistical analysis, wrote the first draft of the report, and reviewed the report. Eduardo Nobile Orazio conceived, organized and designed the study, reviewed and commented on the statistical analysis, wrote the first draft of the report, reviewed the report. All the other authors contributed to the organization, and execution of the research project, reviewed and commented the report.

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