RESEARCH ARTICLE



Attitudes of Patients with Multiple Sclerosis Towards Disease and Physical Activity Behaviors During the COVID-19 Pandemic

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Abstract

Objective: This study aimed to investigate the considerations of patients with multiple sclerosis (pwMS) related to their disease and treatment, the frequency of going out, treatment and routine examination interruptions, and physical exercise habits during the pandemic.

Materials and Methods: Seven hundred forty-four pwMS (mean age: 41.44 years, 29.2% male, 70.8% female), who were followed in MS Outpatient Clinic in Dokuz Eylul University Hospital, Izmir, Turkey, were recruited. A structured survey was created and administered via phone to assess attitudes towards disease, the frequency of going out, treatment and routine examination interruptions, and physical exercise behavior. Additionally, demographic and clinical characteristics, their health status, and coronavirus disease 2019 (COVID-19) symptoms were also asked.

Results: 66.5% (n=495) of responders stated that their thoughts about the disease did not change during the pandemic. 94% (n=699) of the pwMS reported that they did not experience any disruption in their treatment. 59.9% (n=446) of the pwMS indicated no disruption in their routine controls. 25% of responders reported less physical activity, 17.1% reported more physical activity, 16.5% continued physical activity as usual. 41.4% reported that they did not perform any physical activity in the past and did not do so during the pandemic.

Conclusion: This large cross-sectional study has shown that the attitudes of the majority of pwMS towards their disease have not changed. The continuation of the follow-up of the patients during the COVID-19 period with telehealth applications may ensure the maintenance of treatment adherence and patients' attitudes about the disease.

Keywords: Multiple sclerosis, COVID-19 pandemic, clinical practice, physical activity, exercise, treatment adherence

Introduction

The global outbreak of the coronavirus disease 2019 (COVID-19) has dramatically spread from person to person worldwide, and its dissemination is still intensifying in many areas. The COVID-19 represents various clinical manifestations, including fever, dry cough, myalgia, upper respiratory tract, gastrointestinal symptoms, and fatique (1).

Multiple sclerosis (MS) is the immune-mediated chronic, inflammatory disease of the central nervous system, and pwMS receive disease-modifying therapies. Those with preexisting medical conditions, additional comorbidities, and advanced age have the infection-related potential risks factors for COVID-19 (2,3). In managing MS disease, there are many care services

such as routine clinical examinations, relapse management, and rehabilitation services that will require patients to access the hospital. As mentioned above, home confinement has caused pwMS to postpone to schedule their follow-up examinations, the laboratory blood tests, their magnetic resonance, initiation therapies, or taking pulse methyl-prednisolone treatment (4).

Evidence is accumulating that MS or MS immunotherapies do not increase the incidence of infection or the severity of infection (5). However, in the first months of the pandemic outbreak, there was no experience in this regard. This study aimed to collect data on the considerations of patients with MS (pwMS) related to their disease and treatment and daily routine outside and physical exercise habits during the pandemic. In addition, we both followed their ongoing therapies in

the current situation and interrogated the impact of home confinement in pwMS.

Materials and Methods

Participants and Procedure

This study protocol was confirmed by the Turkey Ministry of Health and Dokuz Eylul University Ethics Committee (protocol number: 5507-GOA and approval number: 2020/15-32). Informed consent was obtained verbally from all participants before the assessment during the pandemic.

The inclusion criteria were the diagnosis of definite MS according to revised criteria by an MS neurologist confirmation (6), and being aged 18 years and older. The exclusion criteria were having a current neurological disease other than MS, having any verbal skill deficiency or impairment that might influence response to the survey.

During the recruitment period, the routine assessments were performed via teleassessment by neurologist. Patients could reach the MS nurses, psychologists, and physiotherapists for their questions.

Assessments

We asked about the demographic characteristics (age, education level, marital status, residence, employment status, number of households, and children). Besides, we also inquired about their health status by using the survey mentioned above, involving COVID-19 symptoms for them or their close relatives, the last time of hospital admission for various reasons, the last time they went out, and the level of physical activity. We obtained clinical features from our database (disease duration, course of MS, disability level, and using disease-modifying therapies (DMTs), Expanded Disability Status Scale (EDSS).

A structured survey was created by the three members of our research group, including a psychologist, physiotherapist, and senior neurologist. The survey was performed by the Multiple Sclerosis Research Group, which included an MS neurologist specialized in managing pwMS, physiotherapists, psychologists, and MS nurses. Seven hundred forty-four (female 70.8%, 29.2% male) respondents were reached by mobile phones from May 5 to June 5, 2020, in the MS Outpatient Clinic of a tertiary hospital affiliated with the Medical Sciences of Dokuz Eylul University, Izmir, Turkey. We enrolled with patient self-reporting and questionnaire, including information about MS and COVID-19, via phone calls. Firstly, we interviewed and got feedback from 10% of participants in this study and ensured survey questions to be consistent. We phoned again to pwMS, who did not respond to the first call, about 5 or 7 days later. The content is provided in the tables presented in the results section.

Statistical Analysis

Statistical analyses were performed with IBM® SPSS® Statistics for Windows (Version 25.0. Armonk, NY: IBM Corp.). Descriptive

analysis was shown as means and standard deviation (SD) for numerical variables and percentages for categorical variables. The t-tests analysis and chi-square test were performed to obtain two group comparisons between the individual groups. The Pearson correlation coefficient r was used to examine the relationship between the numerical variables. The One-way ANOVA was used to compare EDSS among the groups (positive, negative, neutral/not changed, the decreased frequency, never get out). The Levene test was employed to assess the homogeneity of the variances. A p value ≤0.05 was considered statistically significant.

Results

Seven hundred forty-four pwMS were interviewed by phone during the first six-month-period of COVID-19 pandemic. 527 (70.8%) and 217 (29.2%) were female and male, respectively. The mean age, EDSS, and disease duration were 41.44±11.58 years (range: between 18 and 77 years), 2.12±2.24 (range: between 0 and 8.5), and 11.54±8.5 years (range: between 0 and 41), respectively (Table 1). Also, thirty-one cases who were the relatives of pwMS (4.1%) had reported as COVID-19 positive. None of the pwMS experienced new relapse/attacks from the initial of pandemic to the date when we administered the survey.

There were 608 (81.7%), 94 (12.6%), 23 (3.1%), and 19 (2.6%) patients with relapsing-remitting course (RRMS), secondary-progressive (SPMS), primary-progressive (PPMS), and clinically isolated syndrome (CIS), respectively. Thirty-one (4.1%) patients were not administered any DMTs. Nine patients (1.2%) had systemic corticosteroids, 130 (17.5%) interferon-beta, 88 (11.8%) glatiramer acetate, 218 (39.2%) fingolimod, 14 (1.9%) dimethyl fumarate, 43 (5.8%) teriflunomide, 28 (3.8%) natalizumab, 176 (23.7%) ocrelizumab, 4 (0.5%) azathioprine, and 1 (0.1%) rituximab. One patient (0.1%) was in the phase 3 trial of ofatumumab (Table 2).

Responders were asked, "Have your attitude changed about MS during the pandemic?". Four hundred and ninety-five pwMS (66.5%) answered as "not changed" regarding their thoughts about the disease during the pandemic, while 249 pwMS (33.5%) responded as "changed". Age, duration of the formal education, marital status, disease duration, EDSS, and last time they went out were not significantly different between those with changing and fixed thoughts about MS (p>0.05). Those who did not change their attitudes on their diseases generally stated that their diseases were also under control during the pandemic. Of the participants whose attitudes had changed, 158 (21.2%) rated it as "If I get infected with the virus, MS symptoms will get worse" (Table 3).

One hundred fourteen (15.3%) responders stated that the frequency of going out did "not changed" during the pandemic, 501 (67.3) rated as "decreased", and 129 (17.3) rated as "never

Table 1. Demographic and clinical characteristics of the participants		
	Mean (SD)	
Age (years)	41.44±11.58	
Gender, n (%)		
Female	527 (70.8%)	
Male	217 (29.2%)	
Marital status, n (%)*		
Married	508 (68.2)	
Single	236 (32.0)	
Number of households	2.13±2.00	
Number of children	1.11±0.97	
Educational status, n (%)**		
Primary school	130 (17.5)	
Secondary school	60 (8.1)	
High school	199 (26.7)	
University	342 (46.0)	
Marital status**		
Married	506 (68.0)	
Single	234 (31.5)	
Disease course, n (%)		
Relapsing-remitting MS	608 (81.7%)	
Secondary progressive MS	94 (12.6%)	
Primary progressive MS	23 (3.1%)	
Clinically isolated MS	19 (2.6%)	
EDSS***	2.17±2.28	
Disease duration (years)	11.55±8.50	
EDSS. Expanded Disability Status Scale, MS. Multiple sclerosis, SD. Standard		

EDSS: Expanded Disability Status Scale, MS: Multiple sclerosis, SD: Standard deviation

*Missing: 2, **Missing: 13, ***Missing: 30

get out". The mean EDSS of those rated "never get out" was significantly higher than other groups. Two hundred forty-nine pwMS (33.5%) reported that staying at home negatively affected their disease, while 114 participants (15.3%) reported that it had a positive effect and 381 (51.2%) had no effect (Table 4).

Six hundred ninety-nine pwMS (94.0%) reported that they had not experienced an interruption in the treatment due to the pandemic. Twenty-five pwMS (3.4%) stated that they could not get planned monthly methylprednisolone because they could not go to the hospital during the pandemic. 0.4% of patients quit the treatment because of the fear of getting COVID-19 (Table 5).

Four hundred forty-six pwMS (59.9%) reported no interruption in their routine controls. Two hundred forty-two respondents (32.5%) stated that their routine examination had been performed via a telephone call by a neurologist. The examinations of 56 respondents (7.4%) had not been completed for several

Table 2. Data regarding the medications used for MS		
	n (%)	
Fingolimod	218 (39.2)	
Ocrelizumab	176 (23.7)	
Interferon-beta	130 (17.5)	
Glatiramer acetate	88 (11.8)	
Natalizumab	28 (3.8)	
Dimethyl fumarate	14 (1.9)	
Azathioprine	4 (0.5)	
Rituximab	1 (0.1)	
Ofatumumab phase 3 study	1 (0.1)	
Monthly pulse methylprednisolone	9 (1.2)	
No treatment	31 (4.2)	

MS: Multiple sclerosis

Table 3. Has your attitude changed about MS during the
pandemic?

	Given answers	n (%)	EDSS
Not changed (66.5%)	It has not changed	495 (66.5)	2.11±2.16
Changed (33.5%)	It has changed.	249 (33.5)	2.30±2.34
If changed, please state the best describes your opinion about the effect of pandemic on your disease?	I care more about not getting infected with the virus.	81 (10.9)	
	If I get infected with the virus, MS symptoms will get worse.	158 (21.2)	
	The stress caused by the pandemic causes an increase in MS complaints.	10 (1.3)	
*p<0.05			

EDSS: Expanded Disability Status Scale, MS: Multiple sclerosis

reasons, including patients' fear of going out, inability to reach the clinic, and travel restrictions (Table 6).

One hundred eighty-six respondents (25%) reported less physical activity, 127 (17.1%) more physical activity, 122 (16.5%) continued physical activity as usual. Three hundred eight (41.4%) reported that they did not perform any physical activity in the past and did not do so during the pandemic (Table 7).

Discussion

This study investigated the changes in the attitudes towards MS due to the pandemic, the frequency of going out, the rate of treatment and routine examination interruption, and physical activity behaviors. We also revealed the characteristics of a large sample during the COVID-19 pandemic. Our results showed

Table 4. The frequency of going out during the pandemic			
	Given answers	n (%)	EDSS
Please state the best option to describe your opinion about the frequency of going out during the pandemic.	Not changed	114 (15.3)	1.16±1.57ª
	Decreased	501 (67.3)	1.85±1.99 ^b
	Never get out	129 (17.3)	4.26±2.58°
Please state the best option to describe your opinion about the effect of staying at home during the pandemic on your disease.	Positive	114 (15.3)	1.80±1.96 ^d
	Negative	249 (33.5)	1.98±2.03 ^e
	Neutral	381 (51.2)	2.40±2.49 ^f

EDSS: Expanded Disability Status Scale, MS: Multiple sclerosis

Not changed vs. never get out p<0.001, The decreased frequency vs. not changed p<0.001, Never get out vs. the decreased frequency p<0.001, Positive vs. Neutral p=0.028, Negative vs. positive p=0.812, Negative vs. neutral p=0.072

Table 5. The rate of treatment interruption		
	Given answers	n (%)
Is there any interruption in your treatment due to the pandemic?	Not changed	699 (94.0)
	I cannot get my drugs from pharmacies.	2 (0.3)
	I could not get drugs because I was afraid to go out.	3 (0.4)
	I could not get monthly methylprednisolone because I could not go to the hospital.	25 (3.4)
	I quit treatment because I am afraid of getting COVID-19.	6 (0.8)
	Pregnancy	9 (1.2)

COVID-19: Coronavirus disease-2019

Table 6. The rate of interruption in routine examination		
	Given answers	n (%)
Is there any interruption in your routine examination due to the pandemic?	There is no interruption in my planned appointment.	446 (59.9)
	My planned appointment has been canceled, but my examination has been performed via phone by neurologist.	242 (32.5)
	I could not my control appointment because I'm afraid to go out.	30 (4.0)
	My planned appointment has been canceled / I cannot reach the clinic.	13 (1.7)
	I could not my control appointment due to travel restrictions.	13 (1.7)

Table 7. Physical activity behavior during the pandemic		
	Given answers	n (%)
Please state the option that best describes your physical activity behavior during the pandemic.	I have not performed any physical activity in the past and did not do so during the pandemic.	308 (41.4)
	I performed less physical activity during the pandemic.	186 (25.0)
	I continued performing my physical activity as usual during the pandemic.	122 (16.5)
	I performed more physical activity than usual during the pandemic.	127 (17.1)

that most pwMS did not change their attitudes towards the disease. Although the rate of going out and physical activity level decreased, there was no interruption in their medical treatments, and routine examinations were continued by phone.

Most of the pwMS have made an effort to adopt stringent preventive measures during the pandemic. A great deal of

states, such as home confinement, losing social support, feelings of hopelessness, deprivation, and dispiritedness, seem cause to precipitate the depression and anxiety symptoms (7). The personal opinions on chronic disease and the illness perception and treatment adherence can be altered in stressful pandemic situations. PwMS may make different sense of their disease and experiences during the pandemic. In a recent study, 69.9%

of patients have reported that they are concerned that MS diagnosis alone puts them at higher risk for COVID-19 infection (8). In our study, the majority of pwMS (66.5%) reported that their attitudes towards the disease did not change. Although there is a lot of concern about infection in the first months of the pandemic, these results show that an early attempt by health professionals and informing the patients could help manage the distress. The fact that the rates of treatment and routine examination interruptions are very low compared to the literature also supports this result (8).

In the early months of the pandemic, there was uncertainty about whether DMTs increase the risk of infection with COVID-19 or the severity of disease in MS (9). Lately, it has been understood that the risk of acquiring the infectious disease in pwMS is similar to that in the general or disease population as long as they care social distancing, follow the recommended hygiene rules and the national health authority guidance's protocol on quarantine, and adopt the curfew isolation (10). 67.3% of responders have chosen to decrease the frequency of going out during the pandemic. Those not going out because of MS already had a higher disease duration and disability level than other pwMS (Table 3).

Previous studies asserted that social distancing and guarantine could cause limitations in receiving treatments and health service support, therefore cause feeling apprehension regarding their DMTs and exacerbating disease activity (11). This study reported no alteration in 94.0% of patients' treatment programs during the pandemic, and 59.9% of pwMS continued their routine controls. Hence, their treatment adherence seems to be relatively high despite the unprecedented conditions of the pandemic. The rate of changing the therapy programs and delaying in infusions, disruption to rehabilitative services was lower than in a similar survey study (12). These results may be due to the fact that 72.7% responders had high and upper education level in our study, and also the routine assessments were performed by health professionals with a timely teleassessment during the recruitment period. These findings can be interpreted as a significant concordance between physician-patient to enhance treatment adherence (13). Considering the role of the immune mechanisms against infection in MS, the pandemic virus may exacerbate MS disease activity irrespective of the fact that immunosuppressive/immunomodulatory therapies may theoretically increase the susceptibility to COVID-19 (14). Only three pwMS (0.4%) discontinued immunotherapy without consultation because DMTs deteriorated the immune system. Specialists have conveyed these patients to be pay attention to potential risks (prognostic factors, rebound, recurrence, etc.) with postponement DMTs in MS and appropriately informed.

PwMS had to bear psychological impacts, stress, loneliness, cabin fever, depression, healthy anxiety, and isolation caused by the outbreak, and this period may yield them a changed lifestyle

and reduced physical activity (15). Our findings showed that 25% of pwMS did less exercise than before. These results were consistent with those reporting physical activity levels in the Israeli cohort (16). However, while the rate of patients who did not exercise both before and during the pandemic was 41.4% in our sample, this rate was 10.8% in Israel. This result shows that our sample was also physically inactive before the pandemic. Surprisingly, it was observed that 33.6% of patients increased or maintained the physical activity level during the pandemic. We realized during the interviews that participants generally considered that the number of steps was adequate in their daily life (walking in the workplace, going shopping, meeting friends etc.). However, they acquired regular physical activities to report considering they adopted the curfew, quarantine, or self-isolation at home. This result can also be explained by the increased awareness of patients about physical activity, social media support, and promising use of technology (17).

Study Limitations

Several limitations were present in this study. Although our sample is quite large compared to the studies in the literature, obtaining data from a single center may affect the generalizability of the results. There may be positive cases among the patients we could not be reached. The timing of the study might also have altered the results, as participants may have reacted differently earlier or later in the ongoing pandemic. Additionally, we have not asked the type of exercises that patients performed. Longitudinal follow-up studies are needed to examine whether these effects are sustained.

Conclusion

This study showed the importance of closer monitoring and advice on risk diminishment strategies meticulously during the pandemic. Additionally, the importance of decision-making between the provider and the patient has been underlined on continuing therapy. In our study, the attitudes of the majority of pwMS towards their disease have not changed. Informing the patient (advanced age, comorbidity, use of immunosuppressive drugs, etc.) and performing examinations via teleassessment may have reduced the health anxiety of the patients and ensured that their attitudes towards the disease did not change. Furthermore, it may have contributed to keeping the adherence rate to treatment at a high level. Our study has suggested that priority should be given to increasing or maintaining physical activity and preventing sedentary behavior during the ongoing pandemic and before the pandemic.

Ethics

Ethics Committee Approval: The Noninvasive Research Ethics Board of Dokuz Eylul University approved the study protocol (decision no: 2020/15-32, date: 06.07.2020).

Informed Consent: Informed consent was obtained verbally from all participants before the assessment during the pandemic.

Peer-review: Externally and internally peer-reviewed.

Authorship Contributions

Surgical and Medical Practices: E.K., Concept: P.Y., E.K., Design: P.Y., E.K., O.S., Data Collection or Processing: P.Y., Z.A., O.S., Analysis or Interpretation: P.Y., E.K., Z.A., Literature Search: P.Y., E.K., Z.A., O.S., Writing: P.Y., E.K., Z.A.

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