Supplement A. Detailed results of the checklist

Walking difficulties	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment
Due to weakness	Dalfampridine	Strengthening, Stretching, Aerobic, Ankle-foot orthosis, Scooter,
	Side effects: difficulty falling asleep or staying asleep.	Wheelchair
Due to balance		Eye muscle exercises, Cane, Aerobic, Strengthening, Walker, Stretching,
		Scooter, Wheelchair
Due to numbness		Scooter, Wheelchair
Due to MS	Dalfampridine,	Functional electrical stimulation, Treadmill walking, Wheelchair, Exercise,
	Gabapentin	Scooter, Wheelchair, Scooter
	Side effects: Feeling sleepy, tired or dizzy, Feeling sick (nausea),	
	Being sick (vomiting), Diarrhea	
	Baclofen	
	Side effects: Feeling sleepy, tired, dizzy or weak, Feeling or being sick	
	(nausea or vomiting), Diarrhea, Headaches, Problems sleeping,	

Cognitive	Pharmacological treatment	Non-pharmacological	Recommendation	Measurement index
problems	(Drug name, and side effects)	treatment		
Verbal fluency	Donepezil	Cognitive rehabilitation	Getting enough sleep	Short neuropsychological
	Side effects: nausea, vomiting, diarrhea.			batteries *
	loss of appetite, weight loss			Brief Neuropsychological
				Battery (BNB)
	Rivastigmine			Symbol Digit Modalities
	Side effects:			Test

Cognitive	Pharmacological treatment	Non-pharmacological	Recommendation	Measurement index
problems	(Drug name, and side effects)	treatment	Recommendation	Measurement index
	nausea, vomiting, diarrhea, stomach pain, loss			(SDMT)
	of appetite, or weight loss			
				Processing Speed Test
				(PST)
				Computerized Speed
				Cognitive Test (CSCT)
				Multiple Sclerosis
				Neuropsychological
				Screening Questionnaire
				(MSNQ)
				Brief International
				Cognitive Assessment for
				Multiple Sclerosis
				(BICAMS
				Brief Repeatable
				Neuropsychological
				Battery (BRNB)

Cognitive	Pharmacological treatment	Non-pharmacological	Recommendation	Measurement index
problems	(Drug name, and side effects)	treatment	Recommendation	Measurement index
				Minimal Assessment of
				Cognitive Function in MS
				(MACFIMS)
Visual-spatial	_			
abilities				
Speed of	Amantadine			
information	Side effects:			
processing	dry mouth.			
	constipation.			
	nausea.			
	vomiting.			
	decreased appetite			
	Donepezil			
	Side effects:			
	nausea.			
	vomiting.			
	diarrhea.			
	loss of appetite.			
	weight loss			
	Rivastigmine			

Cognitive	Pharmacological treatment	Non-pharmacological	Recommendation	Measurement index
problems	(Drug name, and side effects)	treatment	Recommendation	Measurement index
	Side effects:nausea, vomiting, diarrhea,			
	stomach pain, loss of appetite, or weight loss			
	Lisdexamfetamine			
	Side effects: sleepiness.			
	dizziness.			
	headache.			
	dry mouth.			
	constipation			
	Memantine			
	Side effects:			
	dizziness.			
	confusion.			
	aggression.			
	depression.			
	headach			
	Ginkgo			
	Side effects:			
	stomach upset, headache, dizziness			

Cognitive	Pharmacological treatment	Non-pharmacological	Recommendation Measurement ind	
problems	(Drug name, and side effects)	treatment	Recommendation	Measurement index
	Donepezil			
	Dalfampridine			
Attention and	Donepezil	Cognitive rehabilitation	Getting enough sleep, Practice	
concentration			focusing on one thing at time	
	Rivastigmine			
Memory	Memantine, Ginkgo,	Stress management, Cryo	Use mental pictures, Posting	
	Turmeric	stimulation, Counseling,	notes on the refrigerator,	
	Side effects:	Cognitive rehabilitation,	Getting enough sleep, Writing	
	stomach upset, nausea, dizziness, or diarrhea	Psychotherapy, Mind game with	things down in notebooks,	
	Donepezil,	puzzles, Brain stimulation, Yoga,	Memoryaids	
	Rivastigmine,	Videogames, Speech therapy		
		rehabilitation, Occupational		
	Dalfampridine	therapy		
	Methylphenidate			
	Side effects:			
	nervousness.			
	irritability.			
	difficulty falling asleep or staying asleep.			
	dizziness.			
	nausea.			

Sleep disorders	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Measurement index
Sleepiness	Lorazepam	Massage therapy	Pittsburgh
	Side effects:		Sleep Quality Index (PSQI),
	drowsiness.		
	dizziness.		Epworth Sleepiness Scale (ESS)
	tiredness.		
	weakness.		
	dry mouth.		
	diarrhea.		
	Clonazepam		
	Side effects:		
	drowsiness, dizziness; feeling tired or		
	depressed; memory problems		
	Pramipexole		
	Side effects:		
	Dizziness, lightheadedness, or fainting,		
	especially when standing up suddenly from a		
	sitting/lying position		
	Zolpidem		
	Side effects:		

Sleep disorders	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Measurement index
	drowsiness.		
	tiredness.		
	headache.		
	dizziness.		
	lightheadedness.		
	Pramipexole		
	Side effects: mentioned		
	Zolpidem		
	Side effects: mentioned		
Due to RLS	Pramipexole,		
	Clonazepam,		
	Lorazepam,		
	Zolpidem		

Seizure	Pharmacological treatment (Drug name, and side effects)
GTCS	Pregabalin
	Side effects:
	blurred vision, double vision, clumsiness, unsteadiness

Seizure	Pharmacological treatment (Drug name, and side effects)
	Valproicacid
	Side effects:
	Diarrhea, dizziness, drowsiness, hair loss, blurred/double vision, change in menstrual periods
	Carbamazepine
	Side effects:
	Nausea, vomiting, dizziness, drowsiness, constipation, dry mouth, or unsteadiness
	Levetiracetam
	Side effects: Dizziness, Headache, Irritability, Loss of strength and energy, Mood and behavior changes, Sleepiness
	Gabapentin
	Lamotrigine
	Side effects: Blurred vision, changes in vision, chest pain, discomfort, or tightness, clumsiness or unsteadiness, decreased urine output, dilated neck
	veins
	Phenytoin
	Side effects:
	Feeling nervous, unsteady or shaky
	Feeling or being sick (nausea or vomiting)
	Constipation
	Sore or swollen gums.

Supplement A. Continued

Seizure	Pharmacological treatment (Drug name, and side effects)
Partial	Pregabalin
	Side effects: mentioned
	Valproicacid
	Side effects: mentioned
	Carbamazepine
	Side effects: mentioned
	Levetiracetam
	Side effects: mentioned
	Gabapentin
	Lamotrigine
	Side effects: mentioned
	Phenytoin

Heatin tolerance

Cooling devices

Dysphagia	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment
Dysphagia	Percutaneous Endoscopic Gastrostomy, Speech therapy	Keep the chin parallel with the table, clear your throat and swale low again,
	rehabilitation, Resistance training, Neuromuscul are	Double swallows may be recommended, Brush your teeth and tongue
	lectricalstimulation, Functional dysphagia therapy, Percutaneous	thoroughly twice a day, Take one small bite, Sit up right when eating or
	Electrical Nerve Stimulation	drinking

Sexual disfunction	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Recommendation
Decreased libido	Alprostadil	Pelvic floor, Penile prosthesis,	
	Side effects:	EMG biofeedback	
	bleeding after an injection; a painful erection that lasts 4 hours or longer;		
	new or worsening pain in your penis; or. redness, swelling, tenderness,		
	lumps, unusual shape or curving of the erect penis		
	Phentolamine		
	Side effects:		
	acute and prolonged hypotensive episodes.		
	fast heart rate.		
	cardiac arrhythmias.		
	weakness.		
	dizziness.		
	flushing.		
Due to fatigue	Modafinil		

Sexual disfunction	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Recommendation
	Side effects:		
	Black, tarry stools.		
	blurred vision or other vision changes.		
	chest pain.		
	chills or fever.		
	clumsiness or unsteadiness.		
	dizziness or fainting.		
	increased thirst and urination		
	Methylphenidate		
Bladder and	Oxybutynin		Minimize caffeine and tobacco,
bowel symptoms	Side effects:		Conducting self catheterization or
	dry mouth.		voiding just before sexual
	headache.		activity, Restricting fluid intake
	feeling dizzy, sleepy, or a spinning sensation (vertigo)		for an hour or two before sex,
	Diarrhea or being sick (vomiting)		Wearing a condom, Minimize
	constipation.		urinary problems
	farting and burping (wind)		
	Side effects:		
	Hypotension, drowsiness, headache, dizziness, tremor, dysgeusia, blurred		
	vision, palpitation		

Sexual disfunction	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Recommendation
	Tolterodine Side effects: dry mouth. headache. feeling dizzy, sleepy, or a spinning sensation (vertigo)		
	Diarrhea or being sick (vomiting) constipation.		
Erectile and	Apomorphine	Penile prosthesis	
ejaculation	Side effects:		
problems	Redness/swelling/pain/itching at the injection site, nausea, vomiting,		
	headache		
	Tadalafil		
	Side effects:		
	Headache, stomach upset, back pain, muscle pain, stuffy nose, flushing,		
	Vardenafil		
	Side effects:		
	Headache, flushing, or dizziness		
	Sildenafil		

Sexual	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Recommendation
disfunction			
	Side effects:		
	Bladder pain.		
	burning feeling in the chest or stomach.		
	cloudy or bloody urine.		
	increased frequency of urination.		
	pain on urination.		
	stomach upset.		
Due to spasm	Baclofen	Physical therapy	
	Side effects: mentioned		
	Tizanidine		
	Side effects:		
	dizziness.		
	drowsiness.		
	weakness.		
	nervousness.		
	depression.		
	vomiting		
Burning	Divalproexsodium		
	Side effects:		
	Diarrhea, dizziness, drowsiness, hair loss, blurred/double vision,		
	Gabapentin,		

Sexual disfunction	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Recommendation
	Side effects: Feeling sleepy, tired or dizzy, Feeling sick (nausea), Being		
	sick (vomiting), Diarrhea		
	Carbamazepine,		
	Phenytoin		
Orgasmic	Vardenafil		
dysfunction	Side effects: mentioned		
	Sildenafil,		
	Side effects: mentioned		
	Tadalafil		
	Side effects: mentioned		
Emotional	Tadalafil		
challenges	Side effects: mentioned		
	Vardenafil		
	Side effects: mentioned		
	Sildenafil,		
	Mirtazapine		
	Side effects:		
	drowsiness.		
	dizziness.		

Sexual	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Recommendation
disfunction	That macological treatment (Drug name, and side circus)	Non-pharmacological treatment	Recommendation
	anxiousness.		
	confusion.		
	increased weight and appetite.		
	dry mouth.		
	Mianserin		
	Side effects:		
	drowsiness and dizziness		
	Nefazodone		
	Side effects:		
	headache.		
	difficulty concentrating.		
	dry mouth.		
	heartburn.		
	flushing or feeling warm		
Decreased vaginal	Topical emollients,	Pelvic floor	
lubrication	Side effects:		
	burning, stinging, redness, or irritation		
	lubricating jelly		
	Side effects:		

Sexual disfunction	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Recommendation
	rash; hives; itching; red, swollen, blistered, or peeling skin		
Sensory changes	Divalproex sodium,		
Muscular	Side effects:		Using pillows to improve position
weakness	Diarrhea, dizziness, drowsiness, hair loss, blurred/double vision		in gand reduce muscles train, Oral
			sex
Distractibility	Gabapentin,		Engaging in erotictouching,
	Side effects:		Minimize Distractibility, Using
	Feeling sleepy, tired or dizzy, Feeling sick (nausea), Being sick		sensual musican dlighting,
	(vomiting), Diarrhea		Creating aromantic mood and
			setting, Talking in sexy ways
	Carbamazepine,		
	Phenytoin		
Tingling	Divalproexsodium,		
	Side effects: mentioned		
	Gabapentin,		
	Side effects: mentioned		
	Carbamazepine,		
	Phenytoin		

Urinary disorders	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Recommendation	Measurement index
Nocturia	Desmopressin,		Limited evening fluid intake	Neurogenic Bladder Symptom
	Side effects:			Score (NBSS) is the
	onfusion, hallucinations, muscle cramps,			
	severe weakness, vomiting, loss of			International Consultation on
	coordination			Incontinence-
	OnabotulinumtoxinA			Urinary Incontinence (ICIQ-UI),
	Side effects:			
	Redness, bruising, infection, and pain at the			Overactive Bladder
	injection site			Questionnaire
				(OAB-Q), Kings Health
				Questionnaire (KHQ), and Total
				Health-Related Quality of Life
				(HRQOL).
				The Actionable Bladder
				Symptom and Screening Tool
				(ABSST)
Emptying	Tizanidine,	Timed voiding, Self-		
dysfunction	Silodosin,	Catheterization		
	Side effects:			
	dizziness. diarrhea. orthostatic hypotension			
	Tamsulosin,			

Urinary	Pharmacological treatment	Non-pharmacological	December detter	Measurement index
disorders	(Drug name, and side effects)	treatment	Recommendation	Measurement index
	Side effects:			
	sleepiness.			
	difficulty falling asleep or staying asleep.			
	weakness.			
	back pain.			
	diarrhea.			
	Prazosin,			
	Side effects:			
	Headache, drowsiness, tiredness, weakness,			
	blurred vision			
	Doxazosin,			
	Side effects:			
	Feeling weak, sleepy or dizzy.			
	Headaches.			
	Swollen feet, ankles or fingers.			
	Urinary tract infection (UTI) or cystitis.			
	Stomach pain or back pain			
	Terazosin,			
	Side effects:			

Urinary	Pharmacological treatment	Non-pharmacological	Recommendation	Measurement index
disorders	(Drug name, and side effects)	treatment	Recommendation	Measurement index
	Dizziness, lightheadedness, tiredness,			
	nausea, drowsiness, blurred vision			
	Alfuzosin			
	Side effects:			
	tiredness.			
	headache.			
	runny or stuffy nose.			
	pain.			
	stomach pain			
Detrusor	Baclofen,			
sphincter	Side effects: mentioned			
dyssynergia				
	Capsaicintopical,			
	Side effects:			
	Bloating or swelling of the face, arms,			
	hands, lower legs, or feet.			
	burning, crawling, itching, numbness,			
	prickling, "pins and needles", or tingling			
	feelings.			
	eye irritation or pain.			
	increased sensitivity to pain or touch.			

Urinary	Pharmacological treatment	Non-pharmacological	Recommendation	Measurement index
disorders	(Drug name, and side effects)	treatment	Recommendation	
	scarring of the skin.			
	Tamsulosin,			
	OnabotulinumtoxinA,			
	Alfuzosin,			
	Oxybutynin			
Storage	Hyoscyamine,	Pessary, Bladder retraining,		
dysfunction	Side effects:	External Urine Collection		
	drowsiness.	Devices, Kegel		
	dizziness or lightheadedness.			
	headache.			
	blurred vision.			
	flushing (feeling of warmth)			
	dry mouth.			
	constipation.			
	difficulty urinating			
	Tolterodine,			
	Fesoterodine,			
	Side effects:			
	Bladder pain.			

Urinary	Pharmacological treatment	Non-pharmacological	D	M
disorders	(Drug name, and side effects)	treatment	Recommendation	Measurement index
	bloating or swelling of the face, arms, hands,			
	lower legs, or feet.			
	bloody or cloudy urine.			
	body aches or pain.			
	burning feeling while urinating			
	Imipramine,			
	Side effects:			
	nausea.			
	drowsiness.			
	weakness or tiredness.			
	excitement or anxiety.			
	nightmares.			
	dry mouth			
	Oxybutynin,			
	Desipramine,			
	Side effects:			
	chest pain, slow/fast/irregular heartbeat,			
	seizures, fainting, trouble speaking			

Urinary	Pharmacological treatment	Non-pharmacological	D 1.0	N
disorders	(Drug name, and side effects)	treatment	Recommendation	Measurement index
	Trospium,			
	Side effects:			
	Bladder pain.			
	bloody or cloudy urine.			
	decrease in the frequency of urination.			
	decrease in urine volume.			
	difficult or burning urination			
	Darifenacin			
	Side effects:			
	dry mouth.			
	constipation.			
	upset stomach.			
	stomach pain.			
	diarrhea			
	Propantheline,			
	Side effects:			
	dry mouth.			
	increased sensitivity of your eyes to light.			
	dizziness.			
	nervousness.			

Urinary	Pharmacological treatment	Non-pharmacological	Recommendation Measurement i	
disorders	(Drug name, and side effects)	treatment	Recommendation	Measurement index
	difficulty sleeping.			
	headache			
	Mirabegron			
	Side effects:			
	feeling sick (nausea)			
	constipation.			
	Diarrhea.			
	urinary tract infection (UTI) - pain or a			
	burning sensation when peeing; smelly or			
	cloudy pee.			
	headache.			
Urinary tract	Cephalexin,			
infection	Ciprofloxacin,			
	Nitrofurantoin,			
	Levofloxacin,			
	Amoxicillin			
Overactive	Mirabegron, Desipramine,	Kegel		
bladder	Onabotulinumtoxin A			
Upper urinary	Desmopressin, OnabotulinumtoxinA	sManeuver, Pelvic floor, Self-		
tract		Catheterization, Timed voiding		

Urinary	Pharmacological treatment	Non-pharmacological	Recommendation	Measurement index
disorders	(Drug name, and side effects)	treatment	Recommendation	Measurement muex
Urinary tract				
dysfunction				
Lower urinary				
tract dysfunction				

Bowel disturbance	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Recommendation
Fecal Incontinence	Biperiden, Propantheline, Trihexyphenidyl		
Diarrhea	Atropine and diphenoxylate		Eating more fiber
constipation	Laxatives, Polyethyleneglycol3350, Docusate, Magnesium hydroxide	Colostomy	

Weakness	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment
Muscle weakness	Dalfampridine	Assistive devices, Exercise, Occupational therapy

Fatigue	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment		Measurement index
Fatigue due to	Clonazepam, Lorazepam			The Fatigue Severity Scale
sleep disorders				(FSS)

Fatigue	Pharmacological treatment (Drug name, and side effects)	Non-pharmacologica	al treatment	Measurement index
Fatigue due to depression and anxiety	Citalopram, Fluoxetine	Stress management		
Primary MS	Dalfampridine, Ginkgo, Amifampridine, Pemoline,	Balance and coordination,	Acupuncture, laugh	
fatigue	Aspirin,	Motorized scooters, Occupational	therapy	
	Carbamazepine	therapy, Aquatic exercise,		
		Treadmill walking, Yoga,		
		Cycling, Aerobic, Stretching,		
		Strengthening, Vestibular		
		rehabilitation, Physical therapy,		
		Cooling devices		

Pain	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Surgery	Measurement index
Trigeminal	Gabapentin, Baclofen, Pregabalin, Carbamazepine		Gamma Knife	Barrow Neurological
neuralgia				Institute (BNI) criteria
Tension-type	Aspirin,	Cognitive Behavioral Therapy, Stress		
headache	Ibuprofen	management, Biofeedback		
	Side effects:			
	dry mouth.			
	increased sensitivity of your eyes to light.			
	dizziness.			

Pain	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Surgery	Measurement index
Painful tonic	Nabilone, Cannabis sativa L, Transcutaneous			
spasms	Electrical Nerve Stimulation			
Spasticity pain	Tizanidine, Nabiximols, CannabissativaL, Nabilone,			
	Baclofen			
Backpain	Carbamazepine, Hydrotherapy, Pregabalin,	Physical therapy, Pilates, Yoga		
	Lamotrigine, Amitriptyline, Gabapentin			
Ongoing extremity	Duloxetine, Nabiximols			
pain				
Migraine	Naproxen, lidocaine, Ibuprofen, Venlafaxine			

Emotional disorders	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Measurement index
Anxiety	Duloxetine, Sertraline, Desvenlafaxine, Citalopram, Fluvoxamine,	Group therapy, Meditation, Mindfulness,	Quality of life
	Venlafaxine, Fluoxetine, Levomilnacipran, Escitalopram, Paroxetine	Yoga, Reality therapy	Tolerability
			mental health item of the SF-
			36,*
Irritability	Valproic acid, Quinidine, Dextromethorphan	Group therapy, Meditation, Mindfulness,	
		Yoga	
Major depressive	Fluoxetine, Escitalopram, Paroxetine, Duloxetine, Desvenlafaxine,	Group therapy, Meditation, Mindfulness,	
disorder	Venlafaxine, Citalopram, Imipramine,	Yoga Laugh therapy	
	Dalfampridine		

Emotional disorders	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Measurement index
	, Fluvoxamine, Sertraline, Levomilnacipran		
Pseudobulbar affect	Citalopram, Fluoxetine, Fluvoxamine, Dextromethorphan, Paroxetine	Group therapy, Meditation, Mindfulness, Yoga	

	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment
Vertigo	Meclizine, Diphenhydramine, Betahistine Hydrochloride,	Vestibular rehabilitation, Occupational therapy
	Dimenhydrinate	

	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment
Breathing	Metaxalone, Invasive ventilator, Ventilator, Cyclobenzaprine, Non-	Vestibular rehabilitation, Continuous Positive Airway Pressure, Physical
	invasive ventilator, Carisoprodol	therapy, Pulmonary

Tremor	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Surgery	Recommendation	Measurement index
Resting tremor	Isoniazid, Trihexyphenidyl,	Braces, Plate sand cups with	Thalamotomy	Weights fastened,	Tremor and
	Topiramate, Baclofen,	lips, Wrist rests		Weighted spoons or	Coordination Scale
	Carbamazepine, Primidone,			forks, Weighted boots	(TACS)*
	Gabapentin, Levetiracetam,				
	Alprazolam, Propranolol,				Tremor-Related
	Clonazepam, Divalproex sodium				Activities of Daily
					Living scale score,

Tremor	Pharmacological treatment (Drug name, and side effects)	Non-pharmacological treatment	Surgery	Recommendation	Measurement index
					tremor rating scale
					(TRS)
Intention tremor	Isoniazid, Trihexyphenidyl,	Braces, Plate sand cups with	Thalamotomy	Weights fastened,	
	Topiramate, Baclofen,	lips, Wrist rests		Weighted spoons or	
Postural tremor	Carbamazepine, Primidone,	Braces, Plates and cups with	Thalamotomy	forks, Weighted boots	
	Gabapentin, Levetiracetam,	lips, Wrist rests			
	Alprazolam, Propranolol,				
	Clonazepam, Divalproexsodium				

Vision problems	Pharmacological treatment	Non-pharmacological	Surgery	Recommendation
_	(Drug name, and side effects)	treatment		
Diplopia		Fresnel	Diplopia surgery	Rest in or cooling down the eye, Short-
				term patching of one eye
Nystagmus	Amitriptyline, Gabapentin, Memantine			
Downbeating	Baclofen, Fampridine, Amitriptyline,			
nystagmus	Gabapentin, Memantine, Dalfampridine			
Poor vision		Telescopic eyewear,		
		Magnifier, Microscopic		
		eyewear, CCTV		
Optic neuritis	Methylprednisolone, Intravenous			
	immunoglobulin			

Vision problems	Pharmacological treatment	Non-pharmacological	Cuncom	Recommendation
Vision problems	(Drug name, and side effects)	treatment	Surgery	Recommendation
Acquired pendular	Dalfampridine,			
nystagmus	Fampridine, Baclofen, Amitriptyline,			
	Gabapentin, Memantine			

Spasticity	Pharmacological treatment (Drug name, drug dose and, side effects)	Non-pharmacological treatment	Rehabilitation	Measurement index	Complementary treatment	Surgery
	Baclofen. The main Side effects	Repetitive magnetic	Kinect-based	Modified	Acupuncture	Tenotomy,
	are somnolence, fatigue,	stimulation,	virtual	Ashworth Scale		rhizotomy,
	constipation, nausea, vomiting	electromagnetic therapy,	rehabilitation,	(MAS)		neurectomy
		transcutaneous electrical	physical therapy,			
	Tizanidine The main Side effects	nerve stimulation,	occupational			
	are orthostatic hypotension,	vibration therapy	therapy			
	drowsiness, dry mouth, dizziness					
		Stretching and motion				
	Diazepam The main Side effects	exercises: Wheelchair				
	are sedating and memory	seating system, gait and				
	impairment	assistive devices.				
	Gabapentin. The main Side	Timing exercises: Motor				
	effects are somnolence, dizziness,	control, yoga and tai chi,				
	ataxia, and fatigue.	biofeedback, relaxation				

Spasticity	Pharmacological treatment (Drug name, drug dose and, side effects)	Non-pharmacological treatment	Rehabilitation	Measurement index	Complementary treatment	Surgery
		techniques such as				
	Onabotulinumtoxin A 5–200 U	progressive muscle				
	for upper-limb muscles and 10-	meditation or deep-				
	400 U for lower-limb muscles.	breathing exercises,				
	The main Side effects are pain,	massage.				
	Bleeding and bruising, temporary					
	partial weakening of the muscles	Strengthening exercises:				
	injected.	Free weights, machines,				
		theraband, swiss balls, or				
	Dantrolene 20 mg; 250 mg	aquatic exercises.				
	intravenous powder for injection;					
	100 mg; 25 mg; 50 mg oral	Balance and coordination				
	capsule. The main Side effects are	exercises: Pool exercises,				
	liver problems, nausea, stomach	hydrotherapy, ankle-foot				
	pain, itching, tired feeling, loss of	orthosis.				
	appetite, dark urine, clay-colored					
	stools, or jaundice (yellowing of					
	the skin or eyes).					
	Nabilone The main Side effects					
	are dizziness, drowsiness, dry					

Spasticity	Pharmacological treatment (Drug name, drug dose and, side effects)	Non-pharmacological treatment	Rehabilitation	Measurement index	Complementary treatment	Surgery
	mouth, feeling "high", an					
	exaggerated sense of well-being					
	(euphoria), lightheadedness, head					
	ache, trouble sleeping, or memory					
	problems.					
	Nabiximols 22-32 mg/day					
	tetrahydrocannabinol and 20-30					
	mg/day cannabidiol. The main					
	Side effects are dizziness,					
	drowsiness, constipation or					
	diarrhea, fatigue, memory or					
	concentration problems, and a dry					
	mouth or changed sense of taste.					
	Phenol 2- 3 ml of oily phenol					
	injection. Spray 5 times to the					
	affected area every 2 hours. The					
	main Side effects are difficulty					
	with breathing, fever, headache,					
	nausea, rash, swelling, vomiting,					

Spasticity	Pharmacological treatment (Drug name, drug dose and, side effects)	Non-pharmacological treatment	Rehabilitation	Measurement index	Complementary treatment	Surgery
	worsening of pain, redness, or					
	irritation in or around the mouth					

	Non-pharmacological treatment	Surgery	Recommendation
Dysarthria problem	Speech therapy rehabilitation	Velopharyngeal surgery	Reduction of background noise, speaking half words one ach
			breath, Awareness of the body posture, Facing the partner while
			communicating

Symptom	Pharmacological treatment (Drug name and, side effects)	Recommendation
Facial myokymia	OnabotulinumtoxinA	
Hearing Loss	Steroids	visiting an ear specialist and checking for infection can also be
		used, hearing aids
Paresthesia		