

# PATIENT CASE STUDY # 050

## MULTIPLE SCLEROSIS

NAME: [REDACTED] AGE: 44 SEX: Female NATIONALITY: Italian

TREATMENT CENTER: Belgrade DATE: 06.-17. April 2012

DIAGNOSIS: Secondary Progressive Multiple Sclerosis

**PRE-TREATMENT CONDITION:** Physical examination shows stable vital signs. The patient mostly uses a wheelchair - crutches "on better days". She suffers from constipation. Urinary problems are frequent but not intense. Movement coordination is pronounced. Speech problems occur "from time to time" and are connected to memory failures. Sexual dysfunction is "complete". Fatigue, energy decline and depression are high. Muscle stiffness and leg pain is frequent ("almost always"). Double vision is not frequent but it is intense when it happens (usually causes headaches)

### TREATMENT DATA

STEM CELL TREATMENT					
STEM CELL TYPE	EXTRACTION DATE	EXTRACTION TYPE	DELIVERY DATE	DELIVERY TYPE	SIDE EFFECTS
Adipose	07. April	Liposuction	07. April	IV	none
Bone marrow	08. April	Aspiration	08. April	IV	none

ENHANCEMENT PROCEDURES			
PROCEDURE	DATES	NO. OF TREATMENTS	SIDE EFFECTS
Oxyven therapy	09.-13. April	5	none
Xenon gas inhalation	09.-14. April	6	none
Plasmapheresis	16. April	1	none
Blood irradiation	12.-17. April	6	none

PHYSIOTHERAPY			
PROCEDURE	DATES	NO. OF TREATMENTS	SIDE EFFECTS
Lymphatic drainage	10.- 15. April	6	none
Magnetic field therapy	10.-14. April	5	none
Massage	10. - 16. April	7	none

**PATIENT CONDITION:** After stem cell treatment, the patient had no side effects and feels energized. Physiotherapy (Lymphatic drainage, Massage, EMF therapy) eliminated almost all the stiffness in legs. Leg pain is almost completely gone ("only dull weak pain"). The patient is very satisfied with lack of memory or speech problems while at the clinic. Her energy levels significantly improved as well as movement coordination. She walks only with crutches while at the clinic. She feels no significant change in sexual dysfunction. The patient psychological state improved but depression is not completely gone. She had one prolonged occurrence of double vision, but it was less intense than before.

SWISS MEDICA SUPPLEMENTS & MEDICATION			
SUPPLEMENT	DOSE	ADMINISTRATION	SIDE EFFECTS
Swiss Medica Neurometabolic protocol ®	5 x 100 ml	IV	none
Swiss Medica Regenerative protocol ®	5 x 10 ml	IM injection	none

## FOLLOW - UP # 1

TREATMENT CENTER: Belgrade DATE: 27. July 2012

Grade improvements in your condition (1-10) in following areas.	
Vision	7
Muscle stiffness	9
Memory	10
Bowel problems	7
Depression	7
Walking	7
Movement coordination	7
Energy level	8
Pain	9
Urinary problems	5
Speech problems	10
Sexual dysfunction	5



**PATIENT CONDITION:** 3 months after Stem cell treatment, the patient is very satisfied with improvements in some of the symptoms: Speech and Memory problems are eliminated. Muscle stiffness and leg pain is "bearable and quite manageable". The patient used her wheelchair only twice during these three month - both instances due to fatigue, rather than inability to walk with crutches. The least improved symptoms are urinary problems and sexual dysfunction. Energy levels are "high enough", but depression is sometimes still present (not frequent) and double vision occurred twice ("less blurry").

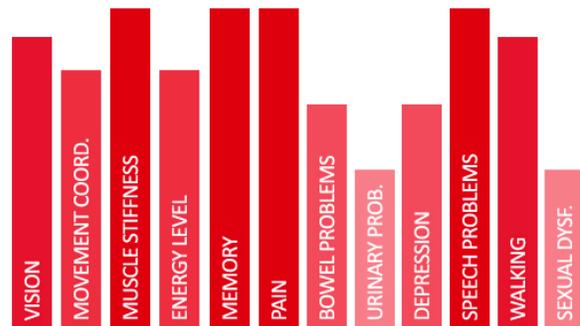
# FOLLOW - UP #2

TREATMENT CENTER: Belgrade DATE: 19. October 2012



Grade improvements in your condition	
Vision	9
Muscle stiffness	10
Memory	10
Bowel problems	7
Depression	7
Walking	9
Movement coordination	8
Energy level	8
Pain	10
Urinary problems	5
Speech problems	10
Sexual dysfunction	5

LEVELS OF IMPROVEMENT  
6 MONTHS AFTER THE TREATMENT



PATIENT CONDITION: 6 months after the treatment, patient subjective review of her own condition shows improvement in Vision (one, very short occurrence of double vision), Muscle stiffness and leg pain are completely eliminated. Movement coordination improved. The patient can walk with one crutch all the time and seems quite stable on her feet. Urinary problems and sexual dysfunction still persist. Depression is mild but present.

## FINAL ASSESSMENT



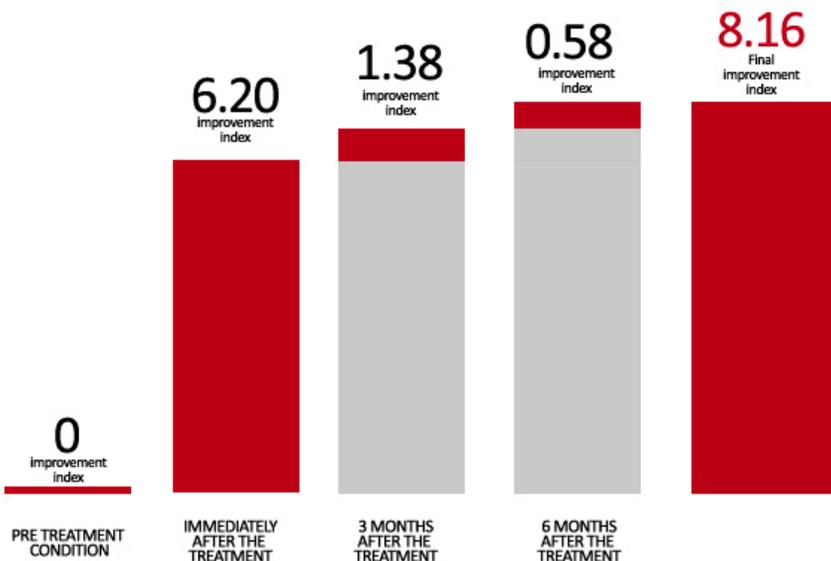
POST TREATMENT IMPROVEMENTS ASSESSMENT  
PATIENT CASE STUDY # 050  
Secondary Progressive Multiple Sclerosis



**75%** IMPROVEMENT IMMEDIATELY AFTER THE TREATMENT

**17%** IMPROVEMENT 3 MONTHS AFTER THE TREATMENT

**8%** IMPROVEMENT 6 MONTHS AFTER THE TREATMENT



Based on the patient's evaluation on the levels of improvement of her condition (improvements of the symptoms are graded 1-10) we can conclude that her overall condition significantly improved (average rating of 6.20) immediately after stem cell administration. First follow-up evaluation showed additional improvements in all of her symptoms, especially memory and speech problems (average rating of 7.58). Second follow-up evaluation showed additional improvements and complete elimination of some of the symptoms (pain, muscle stiffness). Final improvement rating is 8.16 - patient's condition improved 81,6 % by her own assessment.