

# PATIENT CASE STUDY # 061

## MULTIPLE SCLEROSIS

NAME: ██████████ AGE: 41 SEX: Male NATIONALITY: Portuguese

TREATMENT CENTER: Belgrade DATE: 12.-23. September 2012 / 18.-20. March 2013

DIAGNOSIS: Secondary Progressive Multiple Sclerosis

**PRE-TREATMENT CONDITION:** Physical examination shows stable vital signs. The patient relies on his wheelchair, suffers from constipation and urinary incontinence. Speech problems are frequent, swallowing problems appear rarely. The patient complains about fatigue, lack of energy, declining vision and depression. Stiffness and pain in leg muscles is also a problem. He has trouble focusing sometimes. Weakness in limbs is obvious. Movement coordination problems are visible.

## TREATMENT DATA

STEM CELL TREATMENT					
STEM CELL TYPE	EXTRACTION DATE	EXTRACTION TYPE	DELIVERY DATE	DELIVERY TYPE	SIDE EFFECTS
Adipose	13. Sept.	Liposuction	13. Sept.	IV	none
Bone marrow	14. Sept.	Aspiration	14. Sept.	IV	none

ENHANCEMENT PROCEDURES			
PROCEDURE	DATES	NO. OF TREATMENTS	SIDE EFFECTS
Oxygen therapy	18.-22. Sept	5	none
Xenon gas inhalation	15.-19. Sept.	5	none
Plasmapheresis	17. Sept.	1	none
Blood irradiation	18.-22. Sept.	5	none

PHYSIOTHERAPY			
PROCEDURE	DATES	NO. OF TREATMENTS	SIDE EFFECTS
Lymphatic drainage	18.- 23. Sept.	6	none
Magnetic field therapy	17-22. Sept.	6	none
Massage	16 - 22. Sept.	6	none

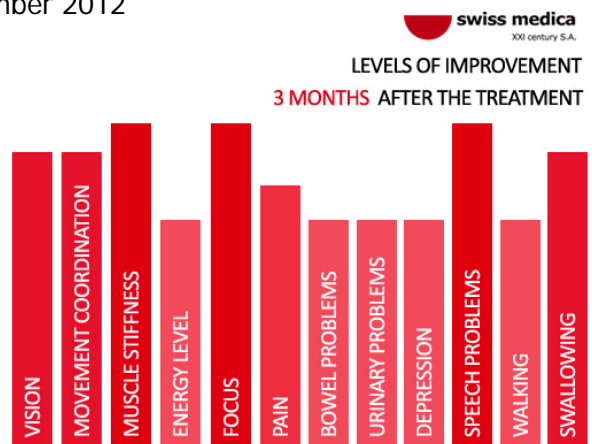
**PATIENT CONDITION:** After stem cell treatment, the patient had no side effects, seems tired and sleepy, but cheerful. Enhancement procedures and Physiotherapy (especially Lymphatic drainage) eliminated almost all the stiffness in legs. His energy levels significantly improved and pains became less intensive. Vision and movement coordination improved, the patient had no focusing and speech problems while at the treatment center. Weakness in limbs is less pronounced but is still existent.

SWISS MEDICA SUPPLEMENTS & MEDICATION			
SUPPLEMENT	DOSE	ADMINISTRATION	SIDE EFFECTS
Swiss Medica Neurometabolic protocol ®	4 x 100 ml	IV	none
Swiss Medica Regenerative protocol ®	5 x 10 ml	IM injection	none

## FOLLOW - UP # 1

TREATMENT CENTER: Belgrade DATE: 21. December 2012

Improvement (1-10) in following areas:	
Muscle stiffness	9
Focus	10
Bowel problems	10
Depression	7
Walking	7
Movement coordination	9
Pain	7
Urinary problems	8
Speech problems	7
Swallowing problems	10



**PATIENT CONDITION:** 3 months after Stem cell treatment, the patient is satisfied with the results of the treatment, especially elimination of muscle stiffness, speech and focus problems. He can walk with only one crutch for short distances but stresses that it pains him to walk this way longer than 10 minutes. Urinary and bowel problems are much less pronounced but existent (not as frequent as before the treatment). He emphasizes depression and energy levels as the symptoms that reduce his motivation to perform his exercises recommended by Swiss Medica medical team.

## FOLLOW - UP #2

TREATMENT CENTER: Belgrade DATE: 17. March 2013

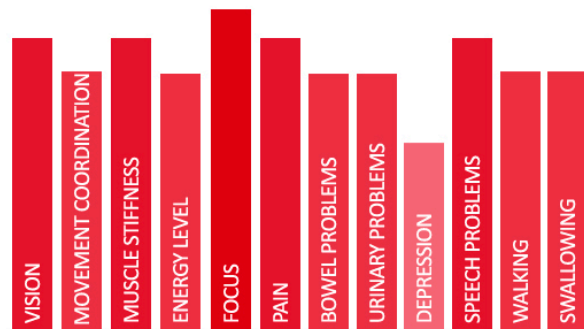


LEVELS OF IMPROVEMENT

6 MONTHS AFTER THE TREATMENT

Grade improvements in your condition (1-10) in following areas:

Vision	9	Movement coordination	8
Muscle stiffness	9	Energy level	8
Focus	10	Pain	9
Bowel problems	8	Urinary problems	8
Depression	6	Speech problems	9
Walking	8	Swallowing problems	8



**PATIENT CONDITION:** 6 months after the treatment, patient's own evaluation shows slight deterioration or stagnation of improvement in some of the symptoms. Although, he can walk for much longer periods with higher energy levels and less pain, muscle stiffness and movement coordination got worse. Depression became more frequent as well as communication problems.

**RECOMMENDATION:** Due to slight deterioration of improvements in patient's condition, medical team recommends (and the patient agrees on) the second Stem cell treatment procedure.

## SECOND TREATMENT DATA

STEM CELL TREATMENT					
STEM CELL TYPE	EXTRACTION DATE	EXTRACTION TYPE	DELIVERY DATE	DELIVERY TYPE	SIDE EFFECTS
Adipose	18. March	Liposuction	18. March	IV	none
Bone marrow	19. March	Aspiration	19. March	IV	none

**PATIENT CONDITION:** After second stem cell treatment, the patient had no side effects. Muscle stiffness, movement coordination and speech problems are completely eliminated. Day after the treatment, patient walked 15 meters without crutches.

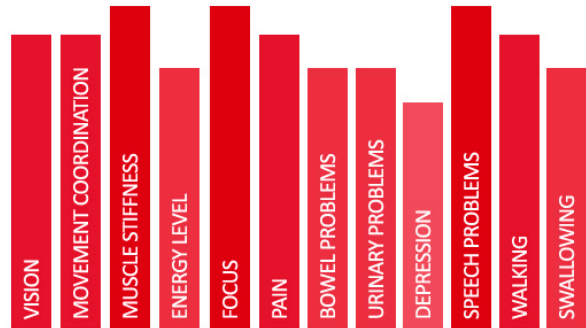
# FOLLOW - UP #3

TREATMENT CENTER: Belgrade DATE: 20. March 2013



LEVELS OF IMPROVEMENT  
AFTER SECOND TREATMENT

Grade improvements in your condition (1-10) in following	
Vision	9
Muscle stiffness	10
Focus	10
Bowel problems	8
Depression	7
Walking	9
Movement coordination	9
Energy level	8
Pain	9
Urinary problems	8
Speech problems	10
Swallowing problems	8



# FINAL ASSESSMENT



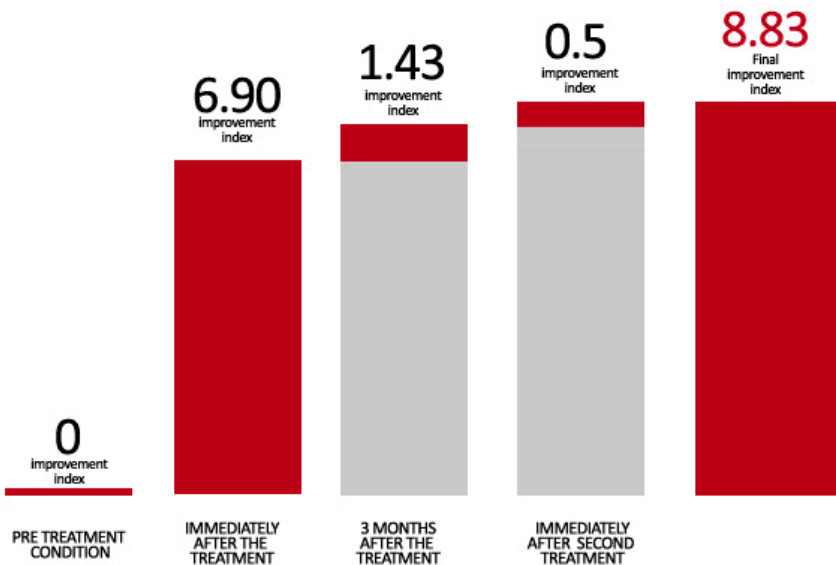
POST TREATMENT IMPROVEMENTS ASSESSMENT  
PATIENT CASE STUDY # 061  
*Secondary Progressive Multiple Sclerosis*



**78%** IMPROVEMENT IMMEDIATELY AFTER THE TREATMENT

**16%** IMPROVEMENT 3 MONTHS AFTER THE TREATMENT

**6%** IMPROVEMENT IMMEDIATELY AFTER SECOND TREATMENT



Based on the patient's evaluation on the levels of improvement of his condition (improvements of the symptoms are graded 1-10) we can conclude that his overall condition significantly improved (average rating of 6.90) immediately after stem cell administration. First follow-up evaluation showed additional improvements in all of his symptoms (average rating of 8.33). Second follow-up evaluation showed deterioration and stagnation in some of the symptoms. Second stem cell treatment eliminated said symptoms which resulted in improved rating. Final improvement rating is 8.83 - patient's condition improved 88,3 % by his own assessment.