

PATIENT CASE STUDY # 034

MULTIPLE SCLEROSIS

NAME: ██████████ AGE: 37 SEX: Female NATIONALITY: British

TREATMENT CENTER: Belgrade DATE: 05.-26. January 2012

DIAGNOSIS: Primary Progressive Multiple Sclerosis

PRE-TREATMENT CONDITION: Physical examination shows stable vital signs. Patient was diagnosed in 2008. Since then, symptoms progressed in severity - vision, hand grip, vertigo headaches, pain and stiffness in legs. Other symptoms (fatigue, weakness, energy level, depression) stagnated. No new symptoms occurred. The patient does not use crutches or wheelchair but has extreme walking problems (right leg) and writing (right hand). Weakness in limbs is visible. Energy levels are low, even when resting. Blurry vision is almost constant (probably causes headaches and vertigo). Hand grip is weak in both hands, but much stronger in the left one.

TREATMENT DATA

STEM CELL TREATMENT					
STEM CELL TYPE	EXTRACTION DATE	EXTRACTION TYPE	DELIVERY DATE	DELIVERY TYPE	SIDE EFFECTS
Adipose	16. January	Liposuction	16. January	IV	none
Bone marrow	17. January	Aspiration	17. January	IV	none

ENHANCEMENT PROCEDURES			
PROCEDURE	DATES	NO. OF TREATMENTS	SIDE EFFECTS
Oxygen therapy	18.-23. January	6	none
Xenon gas inhalation	18.-25. January	8	none
Plasmapheresis	20. January	1	none
Blood irradiation	20.-24. January	5	none

PHYSIOTHERAPY			
PROCEDURE	DATES	NO. OF TREATMENTS	SIDE EFFECTS
Lymphatic drainage	18.-24. January	7	none
Magnetic field therapy	20.-24. January	5	none
Massage	19. - 23. January	5	none

PATIENT CONDITION: After stem cell treatment, patient had no side effects, feels fatigued, but not depressed. Initially, she feels that her mood improved significantly. Leg pain and muscle stiffness reacted very well to physiotherapy (especially lymphatic drainage). The patient feels that enhancement procedures helped her symptoms. Her mood, energy level, limb weakness, hand grip and fatigue improved. Headaches, vision problems and vertigo persist (much less intensity)

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

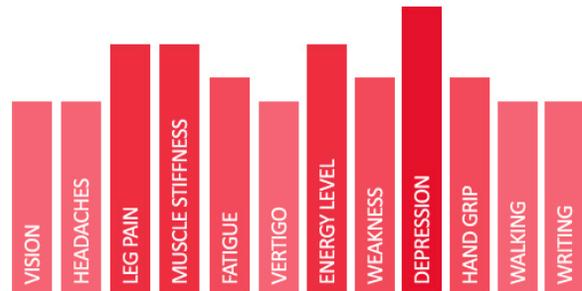
FOLLOW - UP # 1

TREATMENT CENTER: Belgrade DATE: 20. April 2012



LEVELS OF IMPROVEMENT
3 MONTHS AFTER THE TREATMENT

Rate your condition (1-10) in following areas:	
Vision	6
Leg pain	8
Fatigue	7
Energy level	2
Depression	9
Walking	6
Headaches	6
Muscle stiffness	8
Vertigo	6
Weakness	7
Hand grip	7
Writing	6



PATIENT CONDITION: 3 months after Stem cell treatment, patient has favorable reaction to the results of the treatment. Walking and writing somewhat improved but not as she would like (insists that the nurse fills in the questionnaire, as her hand feels weak). She feels much more stable on her feet. Pain and muscle stiffness are of much less intensity, and appear only after longer walks. Fatigue level is not as high as before after longer walks. Depression is almost nonexistent. She feels optimistic and complies with recommendations of our medical team (except writing, which is visible). Her eyesight somewhat improved but she is still not satisfied with her vision. Headaches and vertigo are less frequent but existent.

FOLLOW - UP #2

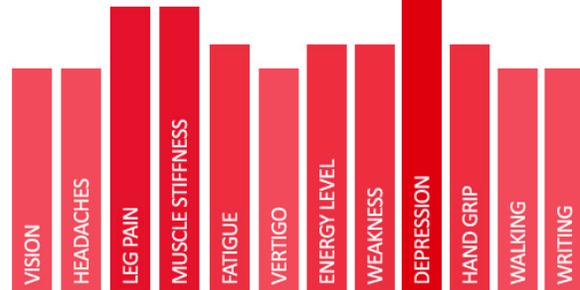
TREATMENT CENTER: Belgrade DATE: 17. July 2012



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

Vision	7	Headaches	7
Leg pain	9	Muscle stiffness	9
Fatigue	8	Vertigo	7
Energy level	8	Weakness	8
Depression	10	Hand grip	8
Walking	7	Writing	7

LEVELS OF IMPROVEMENT
6 MONTHS AFTER THE TREATMENT

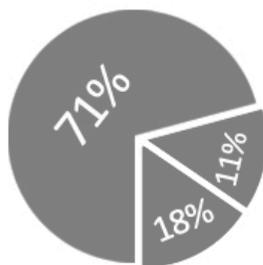


PATIENT CONDITION: 6 months after the treatment, patient shows significant improvements. Long walks are rarely followed by pain and muscle stiffness. She still has some trouble walking, but stability is not a great problem anymore. Limb weakness and hand grip improved but she still cannot write as good as she wants to (but "writing exercises are not a priority") Her vision is still "blurry". Headaches and vertigo are less frequent than three months ago.

FINAL ASSESSMENT



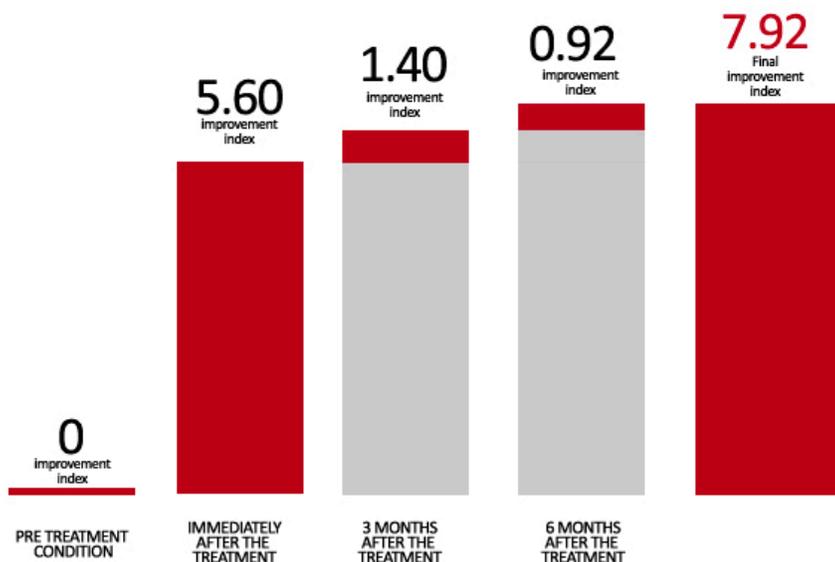
POST TREATMENT IMPROVEMENTS ASSESSMENT
PATIENT CASE STUDY # 034
Primary Progressive Multiple Sclerosis



71% IMPROVEMENT IMMEDIATELY AFTER THE TREATMENT

18% IMPROVEMENT 3 MONTHS AFTER THE TREATMENT

11% 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 5.60) immediately after stem cell administration. First follow-up evaluation showed additional improvements in all of her symptoms (average rating of 7.00) as well as the second follow-up evaluation - final improvement rating of 7.92 which means that the patient's condition improved 79,2 % by her own assessment.