

Study on the influence of a memon®-CARTransformer in a racing vehicle on a racing driver's image of blood during a 24 hour race

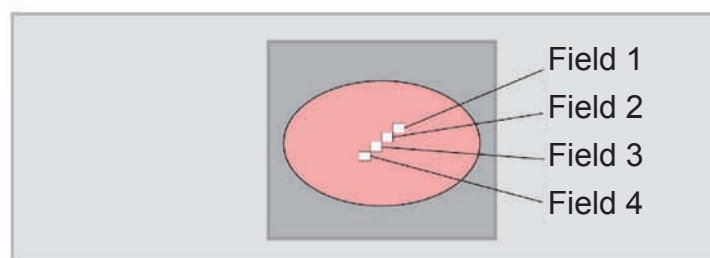
1. Task

It was important to find out what kind of influence, if any, is shown on the racing driver's blood image when the memon®- **CAR**Transformer is installed in a racing car. The test was to continue as long as possible and under the extreme psychological, physical and heavily polluted conditions of a 24 hour race.

2. Implementation

The following implementation procedure was chosen to allow a largely neutral assessment: 3 blood samples were taken from the same injection site of the finger pulp and compared with each other in order to avoid errors. The sample with the most evenly spread drops of blood on the microscope slide was used. An initial field was selected on this sample. Three additional samples were selected, moving in the direction of X and Y respectively, so that a total of four fields were available for evaluation to equally cover the whole sample. Picture 1 shows an example:

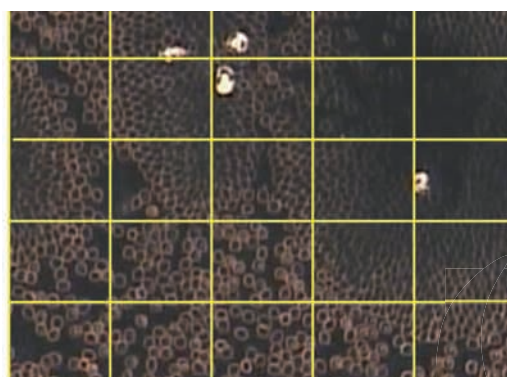
Picture 1



Each of these four fields were subdivided into 25 further fields, so that during a sample a total of 100 fields (corresponding to 100%) could be assessed.

Picture 2 shows an example of this:

Picture 2



Each field was assessed in view of a so-called „pseudo-agglutination“. This is a phenomenon with erythrocytes which is considered the standard for the blood's ability to flow among other things.

The freer the erythrocytes are located on the sample, the better the flow properties are. When taking blood, potential sources of error such as electrostatic charging must be avoided so that that result is not falsified.

Furthermore, the „oxidative stress“ was assessed on the basis of the so-called „filit formation“. As a final parameter, the number of neutrophil granulocytes on the total sample was established in order to assess the possible influence on the immune system.

The evaluation was exclusively carried out at 400 times magnification. A MAD 600 microscope with an ADK1.3 camera was used.

The first blood sample was taken from the test persons 4 hours and 20 minutes before the race and the subsequent samples 10 to 15 minutes respectively after leaving the car. The driver was only allowed to drink after blood was taken. There were no further restrictions.

3. Organisational implementation

It was the 39th ADAC Zürich 24 hour car race from 25th to 26th June 2011 from 4.00 pm till 4.00 pm on the Nuremburg ring. The test vehicle was a 560 hp strong Lamborghini Gallardo GT3/ As one of four crew drivers, Hans-Joachim Stuck was test person. The drivers changed after a period of every 1 to 1 1/2 hours.

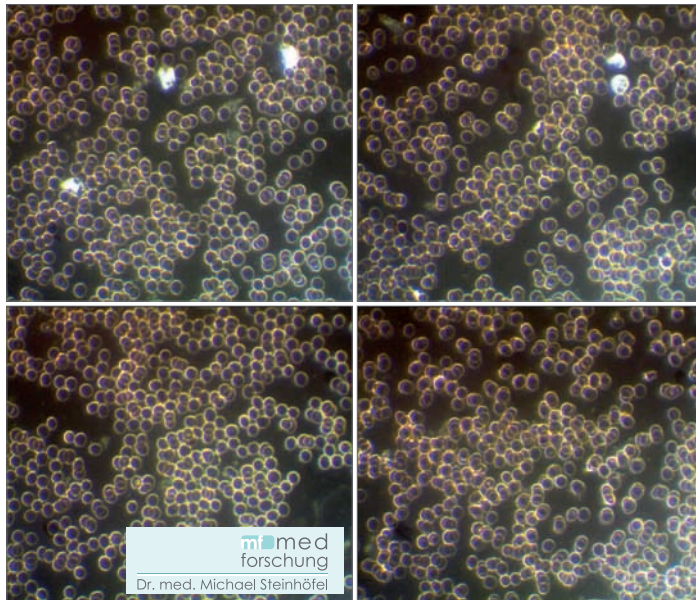
Before the start of the race, a memon®-**CAR**Transformer was attached to the racing car's battery.

The procedure was always the same: the driver Hans-Joachim Stuck got out of his racing car after completing a racing lap, took off his helmet and gloves, answered some questions from the press and then he was immediately accompanied from the box to the truck of the racing stable which was 1 minute away, where blood was taken from his finger pulp.

4. Results and evaluation

Each of the four selected fields from the individual samples were each combined into an image and imaged one after the other in order to better demonstrate and evaluate the results. In the interests of clarity, the grids were not inserted.

Nurembergring, 25.06.2011, Hans-Joachim Stuck, **sample before the race, 11.40 am**



First name, last name	
Distinctive feature	Amount
Pseudo- agglutination and relationships	31%
Filits (oxidative stress)	2%
Neutrophil granulocytes	5

Nurembergring, 25.06.2011, Hans-Joachim Stuck, **sample 1 after the race with memon, 5.40 pm**

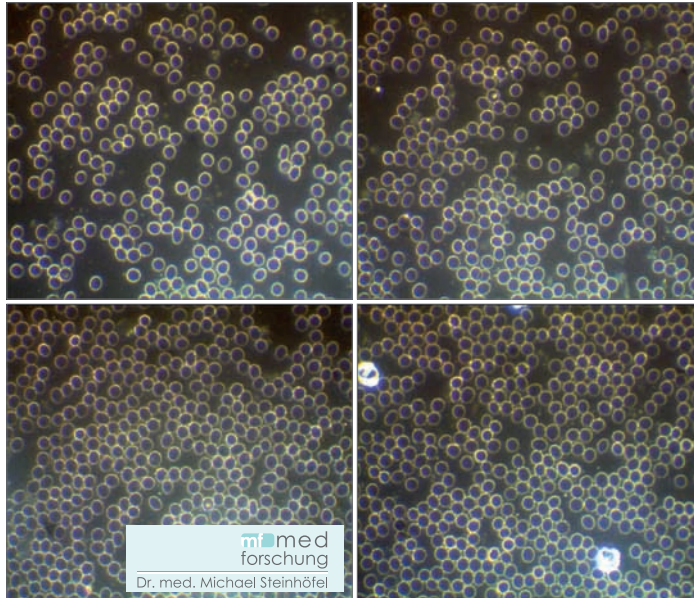


First name, last name	
Distinctive feature	Amount
Pseudo- agglutination and relationships	5%
Filits (oxidative stress)	2%
Neutrophil granulocytes	3

Individual evaluation

Despite the massive psychophysical and electromagnetic stress load, the pseudo-agglutination, i.e. the agglutination of erythrocytes, was clearly reduced (from 31% to 5%) compared to the measurement before the race. Slight signs of oxidative stress are visible. There is no negative influence of the immune system.

Nuremberggring, 25.06.2011, Hans-Joachim Stuck, **sample 2 after the race with memon, 11.05 pm**



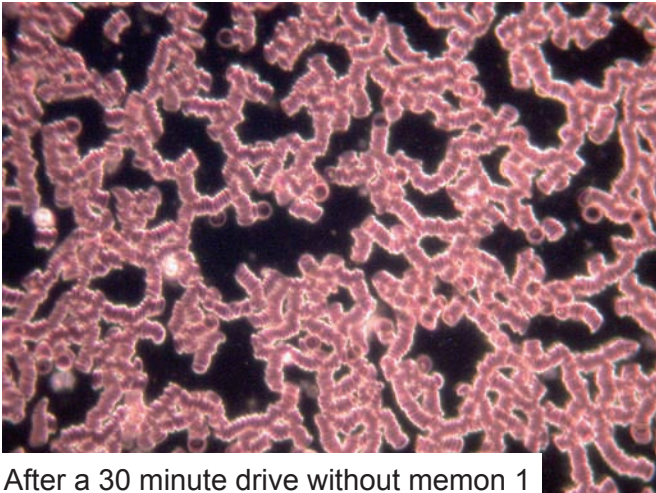
First name, last name	
Distinctive feature	Amount
Pseudo- agglutination and relationships	0%
Filits (oxidative stress)	0%
Neutrophil granulocytes	3

Individual evaluation

Despite being submitted again to extreme loads in the racing car and the most difficult weather conditions during drizzle and darkness, the blood, after 7 hours, looks as if Hans-Joachim Stuck had spent the past few days enjoying a holiday. The blood is now in an optimal state. It could not be any better: freely flowing erythrocytes, i.e. optimal transport of oxygen to all tissues, organs and brain, no more „pseudo-agglutination“ or the clumping of erythrocytes, no signs of oxidative stress and no irritation of the immune system. Matching the evaluation, the racing driver states:

„I feel so relaxed and alert in this phase of the race. I hardly sweat. I’ve never experienced this before in over 40 years of my racing career. Actually, this can only be because of the memon®-CARTransformer which also makes me feel well in my own vehicle even after a long drive“

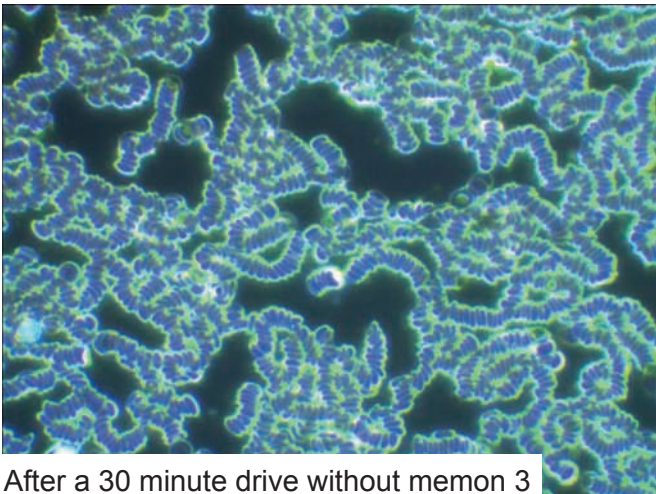
Changes in the blood condition have been detected in numerous preliminary tests when driving a normal car under everyday circumstance without memon®-CARTransformer. Some dark field microscopic images of blood have been subsequently reproduced as an example. You would at least expect them to be so distinctive under racing conditions in the racing car which is not harmonised.



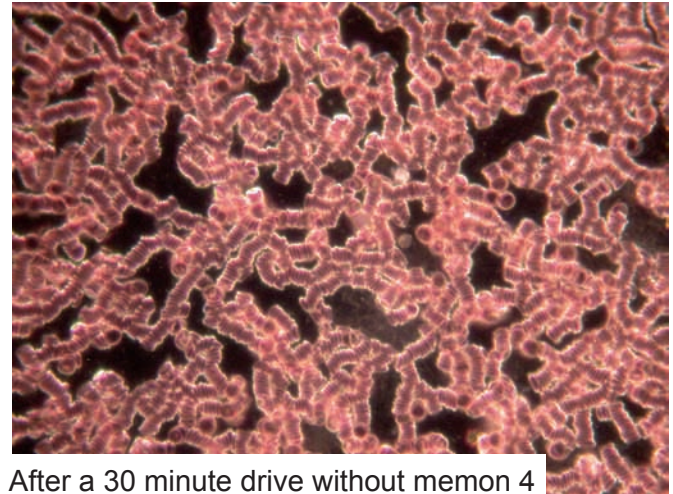
After a 30 minute drive without memon 1



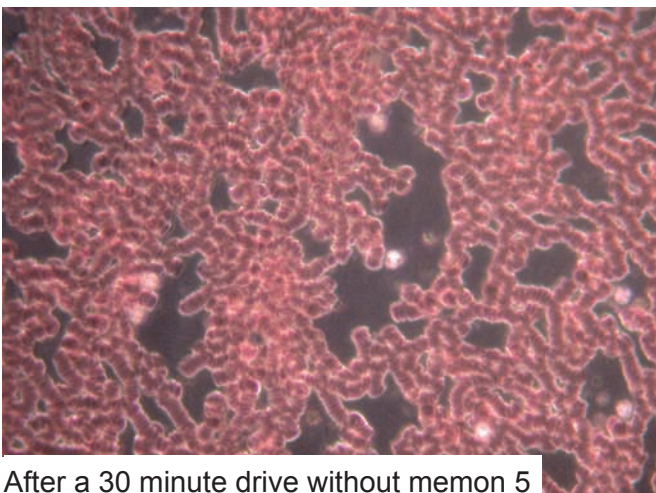
After a 30 minute drive without memon 2



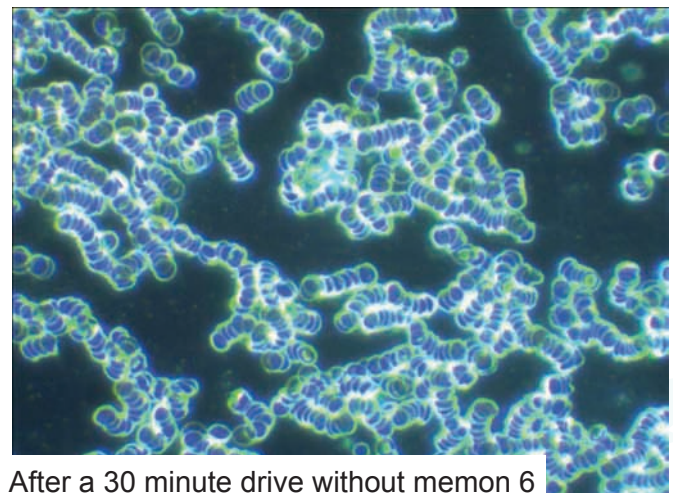
After a 30 minute drive without memon 3



After a 30 minute drive without memon 4



After a 30 minute drive without memon 5



After a 30 minute drive without memon 6

5. Summary

Numerous preliminary tests with the dark field method have proven that a drastic worsening of the blood condition occurs just after short periods of driving (15 - 30 minutes) in „normal“ cars under everyday circumstances. This worsening manifests itself in the form of massive clogging and clumping of the red blood cells, signs of oxidative stress and inflammatory reactions. It is all the more surprising that there is continuous improvement of the situation compared to the initial value, even under the most extreme racing conditions of a 24 hour race, by just installing a memon® **CAR**Transformer.

Seven hours after the start of the race and after two racing laps of 1 1/2 hours of the most extreme continual pressure in the most difficult weather conditions including drizzle and darkness, a continuous improvement of the blood condition surprisingly occurred, even up to the best possible state. Even the subjective condition of the racing pilot was as good as never before under similar conditions.

Further measurements for the demonstration of the intended statement about the effect of the memon® **CAR**Transformer could therefore be abandoned, because such psychophysical and material or environmental pressures are not achieved when driving a car under everyday circumstances.

The preliminary tests on both sons of the racing driver, Johannes (24 years old) and Ferdinand (19 years old) with whom similar impressive- results were reached with an installed memon®- **CAR**Transformer on the occasion of the ADAC-GT formula master race at the Sachsenring on 14th and 15th May, 2011, confirm and surpass the result. The driving time was just 30 minutes here in daylight and good conditions. The age of the driver (60 years old), the duration of driving, the conditions of the roads, weather and lighting had to be evaluated as complicating factors at the present race.

To sum up, driving in the car with installed memon® technology, even under the most extreme racing conditions, clearly shows a „regeneration effect“ on the organism in contrast to the car which is not equipped with this technology . The expected oxidative stress and irritation of the immune system in the sense of inflammatory reactions fail to materialise. The flow ability of the blood is increased with, subsequently, better circulation and oxygen supply to all organs including the brain, resulting in better concentration and performance.



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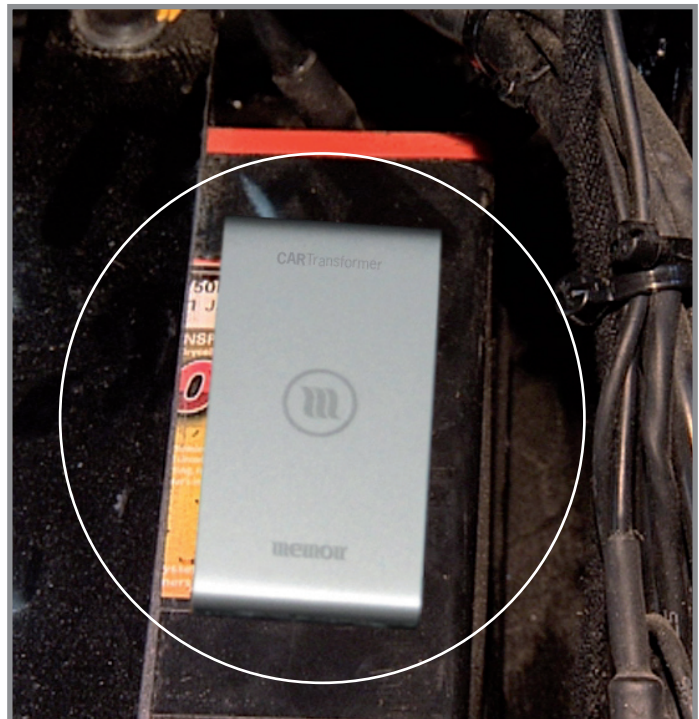
Weyarn, 28 June, 2011



Test vehicle Lamborghini Gallardo



Test person H.J. Stuck



CARTransformer