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Expert Opinion

for the

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Subject:

Investigation to furnish proof of compensation of RayGuard mobil against the effects of electromagnetic fields on humans.

“Investigation to furnish proof of compensation of the RayGuard mobil against the effects of electromagnetic fields on humans”

Investigation to furnish proof of compensation of the RayGuard mobil against the effects of electromagnetic field on humans.

- 1. Physical and biophysical fundamentals**
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Graphics and statistics

- 1. Physical and biophysical fundamentals**
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1. Physical and biophysical fundamentals

The number of senders of electromagnetic waves (broadcasting, television, RayGuard mobile communication systems, etc.) has drastically grown during the last three decades. At the same time certain patterns of illnesses developed such as allergies (neurodermitis, asthma). Obviously it has at least been suspected that electromagnetic waves in addition to other environmental factors are partly responsible for the severe increase of such illnesses, and a large number of studies throughout the world support this suspicion.

Since biological systems only react to such irritations if the so-called biological window (=Adey-Window, obtained from the ratio of amplitude and frequency) is addressed, but then react slowly - mostly in the range of years - furnishing proof of biochemical and cellular changes is very difficult. Preliminary experiments therefore served to find a measuring method which furnished direct proof of the influence of electromagnetic waves in the radio range on humans. The energetic control event offers the possibility of reading off a reaction in the short term. In humans this can best be accomplished with the acupuncture meridians.

The energy flow along the meridians and its significance as a control level of the organism has been empirically known for millennia in Chinese medicine. The German medical practitioner Voll was the first to prove electrical phenomena at the known points of acupuncture. The electrical resistance of the skin at these points is lower compared with the surroundings. In certain disorders it is possible to measure lower (hypoergic, anergic, degenerative) or increased (hyperergic, inflammable) values can be measured at the points which stand for a certain organ. An unstable energetic state of the meridian concerned characterised by a decrease of the conductivity, i.e. the measured value does not remain constant but drops during the measuring process while the resistance increases is called pointer drop. Such a state is evaluated as particularly pathogenic. Additional proof of cell communication by means of biophotons (=electromagnetic waves) and their response to energetic, electromagnetic influence was provided by the German scientist Prof. F.A. Popp, University of Kaiserslautern.

The human energy system reacts in a matter of seconds to biophysical irritations if these are within the biological window (Prof. C.W.Smith, Salford University, England). This characteristic was utilised in the measurements of the present investigation in order to obtain information on the energetic behaviour of the organism to electromagnetic waves. The body is able to maintain its inner balance during short-term exposure. If a biophysical irritation is active for long enough, organic or functional changes occur at the cellular level. If the irritation is pathological an illness will result. This pathogenity can be read off by means of the determined acupuncture values, i.e. the measured points must provide a value which differs from the standard; apathogenic or positive irritations result in a normalisation of the value. In this context an unstable energetic state of the meridian concerned characterised by a decrease of the conductivity during the measuring process, i.e. the measured value does not remain constant but drops during the measurement while the resistance increases is called pointer drop. Such a state is evaluated as particularly pathogenic.

The effects of electromagnetic waves and the effect of a compensation device can only be measured directly on humans. The existence of a frequency does not in any way yield information on its influence on biological systems.

2. Investigation structure

Based on these considerations, electroacupuncture measurements according to Voll were carried out on the test candidates. The measuring device used was the EAV measuring unit of the BICOM bioresonance therapy device of REGUMED, (Gräfelfing near Munich), which has a popular EAV standard measuring unit. The measuring scale between 0 (resistance = infinitive) and 100 (resistance = 0) is spread so that the standard and mean value is situated at 50 graduation marks; this corresponds to a resistance of 100 KOhm. In addition to 8 orientation values the 40 meridian points on fingers and toes were utilised as measuring points. The measured values were stored in the BICOM and printed out after each measurement.

The field was established by a commercially available switched on cellular phone. In order to determine the correct function of the EAV measuring unit a 110-Kohm resistance was measured: the display showed the value 45. No difference between normal measurement and measurement under field was obtained so that it can be assumed that the determined values will not be distorted by interference induced by the field of the measuring device but correspond to the actual reactions of the meridian system.

The test candidates for the reference groups and the verum group were adults of various ages whose state of health was not known prior to the measurement. The following measuring series were conducted:

Reference group 1:

5 adults, 3 measurements without field creation and without RayGuard mobil

Reference group 2:

3 adults, 3 measurements: 1st basic measurement, 2nd measurement under field, 3rd measurement under additional field without RayGuard mobil

Verum group:

40 adults, 3 measurements: 1st basic measurement, 2nd measurement under field, 3rd measurement under additional field with RayGuard mobil

The following values were measured:

Orientation values: Reference value (RV), quadrant values on left and right thumbs (QH left, QH right) and on the left and right large toes (QF left, QF right) in order to assess the general energy distribution; on the acupuncture point 3E20 (three heater 20 = hypothesis point, at the upper ear lobe attachment) to determine the condition of the nervous system.

Meridian points: On the hands from the thumb to the small finger each time on the left and right the values of the meridian lymphs (Ly), lungs (Lu), colon (Co), nervous system (Ne), circulation/sexuality (Cr), allergy (Al), organ degeneration (OD=metabolism), 3-heater (3E), heart (He) and small intestine (Si); on the feet the meridian spleen/pancreas (SP), liver (Li), joints (Jo), stomach (St), connective tissue (Ct), skin (Sk), fatty degeneration (FD), gall bladder (Gb), kidney (Ki) and bladder (Bl).

The individual values are listed in a table in the appendix.

3. Results

a. Pointer drops

Figure 1 shows the situation found: while reference group 1 (without field exposure) hardly showed any pointer drops during all measurements, reference group 2 revealed a constant increase during the measurements under the field. The Verum group shows the same basic values, almost identical figures under field and a drastic reduction after activation of the RayGuard mobil despite continued field exposure; the number of pointer drops of the basic measurement is again achieved.

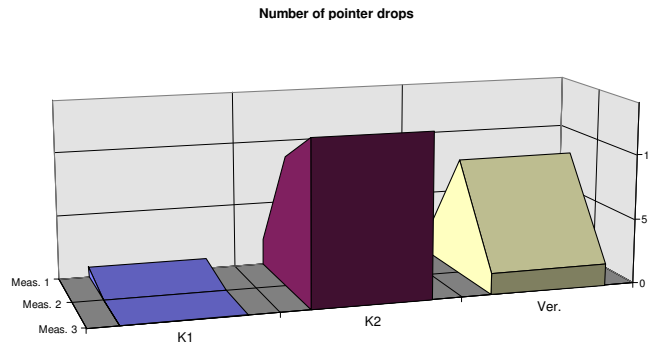


Figure 1: Representation of the average number of pointer drops of the respective groups.

K1: reference group 1, no field, no RayGuard mobil; K2: reference group 2: measurement 1 as basic measurement, measurement 2 and measurement 3 under field without RayGuard mobil; Verum group: measurement 1 as basic measurement, measurement 2 under field, measurement 3 under field and RayGuard mobil.

b. Measured meridian point values

The average number of value reductions, value increases and standard values were calculated in each case. Figure 2 clearly shows the change of the number of standard values which remain almost identical with three consecutive measurements without field, increase under field and almost return to the original number after activation of the RayGuard mobil

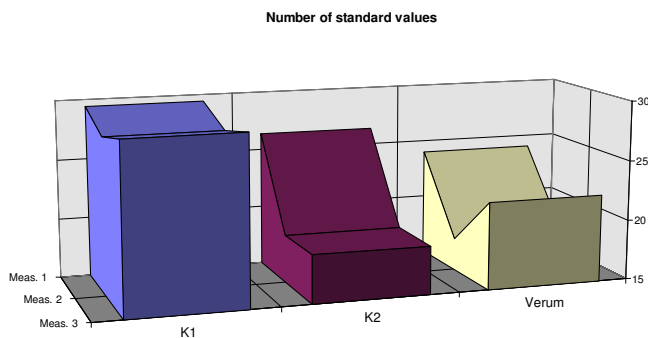


Figure 2: Representation of the average number of standard values of the respective groups.

K1: reference group 1, no field, no RayGuard mobil; K2: reference group 2: measurement 1 as basic measurement, measurement 2 and measurement 3 under field without RayGuard mobil Verum group:

measurement 1 as basic measurement, measurement 2 under field, measurement 3 under field and
RayGuard mobil

The average total number of value changes (increases and reductions) is practically a mirror image function of the standard values (Figure 3). While reference group 1 does not incur major changes, the number of changed values under field increases severely in group K2 while this figure clearly drops again after activation of the RayGuard mobil

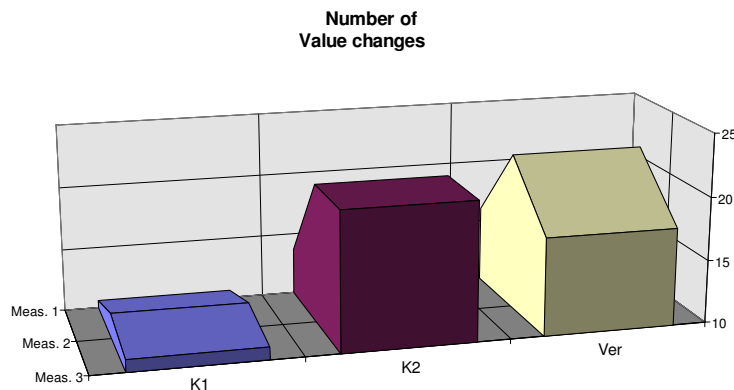


Figure 3: Representation of the average number of value changes of the respective groups.

K1: reference group 1, no field, no RayGuard; K2: reference group 2: measurement 1 as basic measurement, measurement 2 and measurement 3 under field without RayGuard mobil; Verum group: measurement 1 as basic measurement, measurement 2 under field, measurement 3 under field and RayGuard mobil.

c. Statistical values

The mean value, the standard deviation and the variance from all 40 meridian points were subsequently calculated.

The formation of the mean value from all test candidates levels the values because of the individual basic and reaction situation but traces of the same tendency as with the pointer drops and standard values can be identified: change and approximation to the values of the basic measurement after activation of the RayGuard mobil. The same applies to the standard deviation and variants: while exposed to the field the value increase, i.e. wider scattering of measured values around the mean value. Under the “protection” of the RayGuard mobil, standard deviation and variance are reduced, the values are partly below those of the basic measurement, i.e. reduced scattering of measured values.

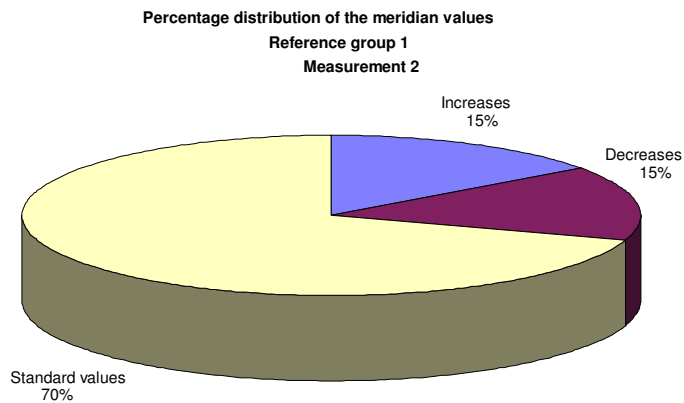
4. Summary and evaluation

The present study conducted investigations on three groups of test candidates: reference group 1 to determine the normal scattering range of the EAV-measurement, reference group 2 to determine the changes under field by means of radio waves and Verum group to determine the compensating effect of RayGuard mobil

It was possible to clearly prove the influence of electromagnetic fields on the meridian system of humans. Just as clearly documented was the compensating effect of the RayGuard mobil to such irritations. All values changed under field returned to normal.

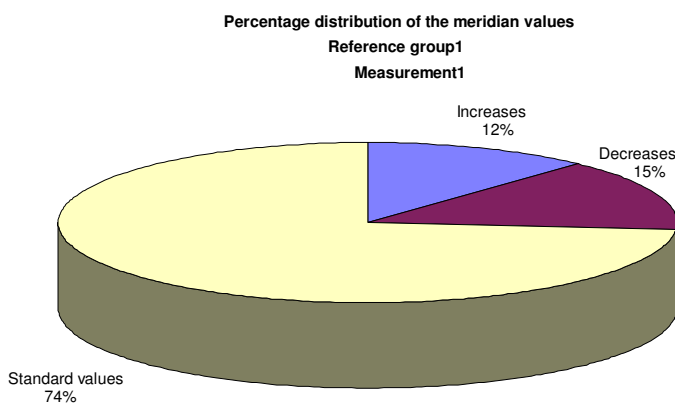
Graphic 1:**Representation of the percentage distribution of the meridian values in reference group 1**

Only values outside the standard range (50-60) were recorded.



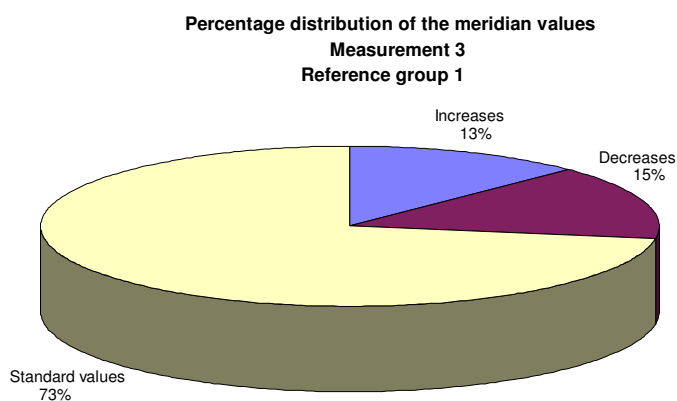
a.) Measurement 1:
No field

Increases 15,0%
Decreases 15%
Standard values 70%



b.) Measurement 2:
No field

Increases 11,5 %
Decreases 14,5 %
Standard values 74,0 %



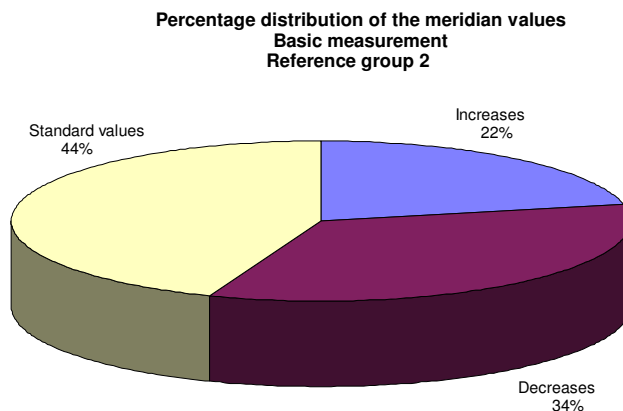
c.) Measurement 3:
No field

Increases 12,5 %
Decreases 14,5 %
Standard values 73 %

Interpretation: Only minor changes to the measured values are incurred during several consecutive measurements.

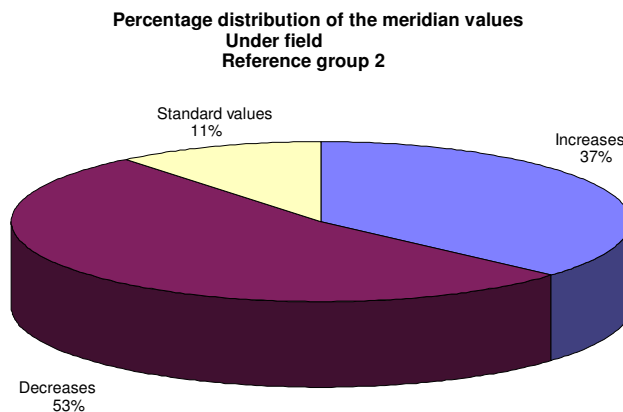
Graphic 2:**Representation of the percentage distribution of the meridian values with reference group 2**

Only values outside the standard range (50-60) were recorded.



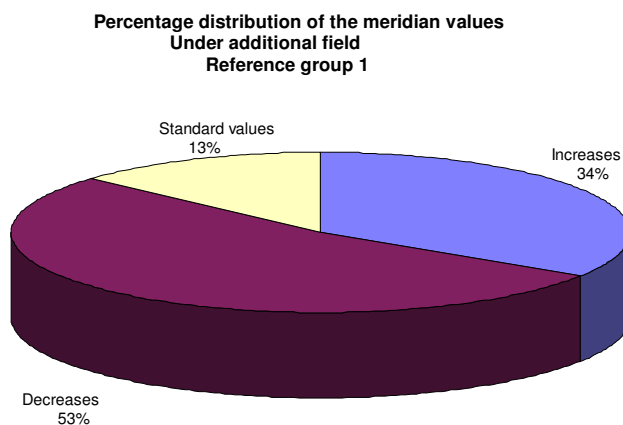
a.) Measurement 1:
No field

Increases 21,67 %
Decreases 34,17 %
Standard values 44,17 %



b.) Measurement 2:
field

Increases 36,67 %
Decreases 52,2 %
Standard values 10,83 %



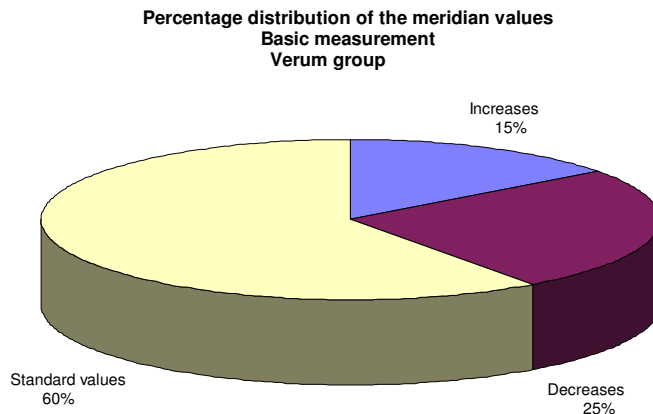
c.) Measurement 3:
Additional fields

Increases 34,17 %
Decreases 52,5 %
Standard values 13,3 %

Interpretation: A severe shift of the value distribution occurs under field: especially the value decreases increase severely, the number of standard values drops to approximately a ¼. There is no major difference between measurements 2 and 3.

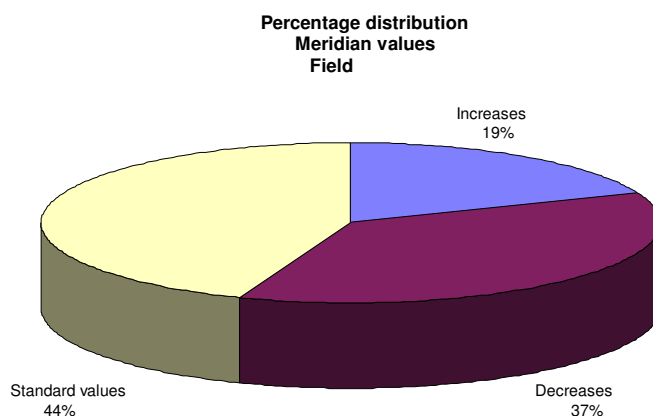
Graphic 3:**Representation of the percentage distribution of the meridian values in the Verum group**

Only values outside the standard range (50-60) were recorded.



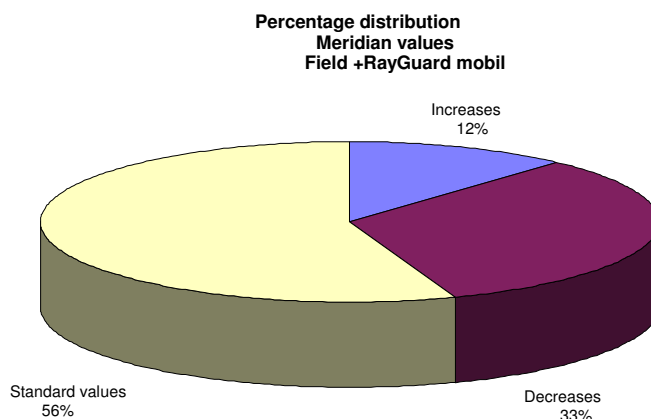
a.) Measurement 1:
No field

Increases 14,63 %
Decreases 25,44 %
Standard values 59,94 %



b.) Measurement 2:
field

Increases 18,94 %
Decreases 36,88 %
Standard values 44,19 %

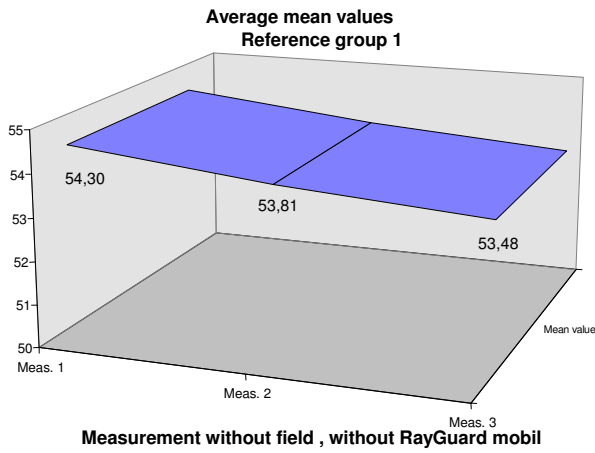


c.) Measurement 3:
Additional field + RayGuard mobil

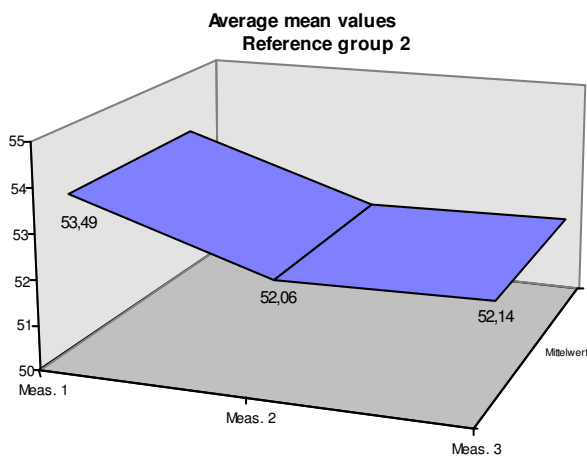
Increases 11,75 %
Decreases 32,56 %
Standard values 55,69 %

Interpretation: Similar to reference group 2, clear increase of the number of decreases and increases under field, reduction of the value changes after activation of the RayGuard mobil despite additional field.

Graphic 4:
Comparison of the mean value of the three measuring series

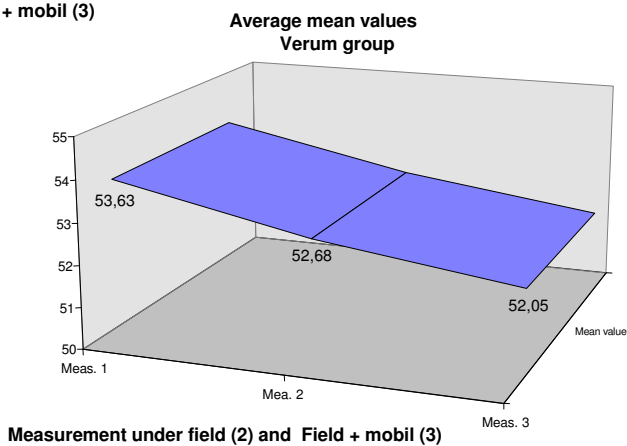


a.) Reference group 1: The mean value drops slightly from measurement to measurement.



b.) Reference group 2: Clearly greater drop of the mean value under field when compared with reference group 1.

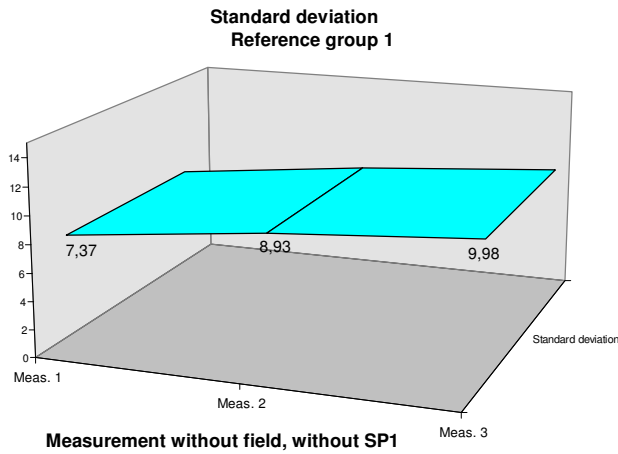
Field + mobil (3)



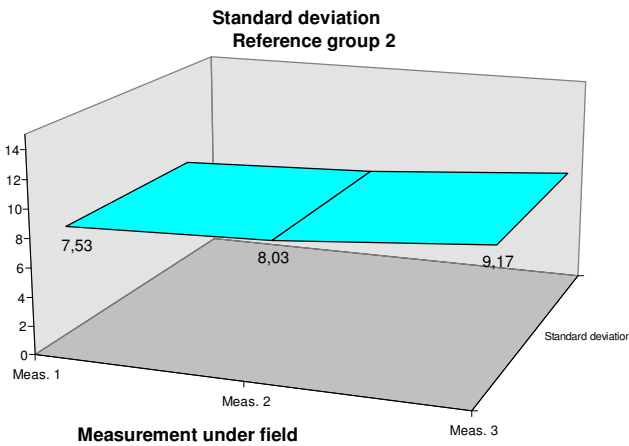
c.) Verum group: The mean value of all meridians hardly changes compared with reference group 2.

Interpretation: Owing to the relatively high distribution of the individual values (see data section) no statement is possible.

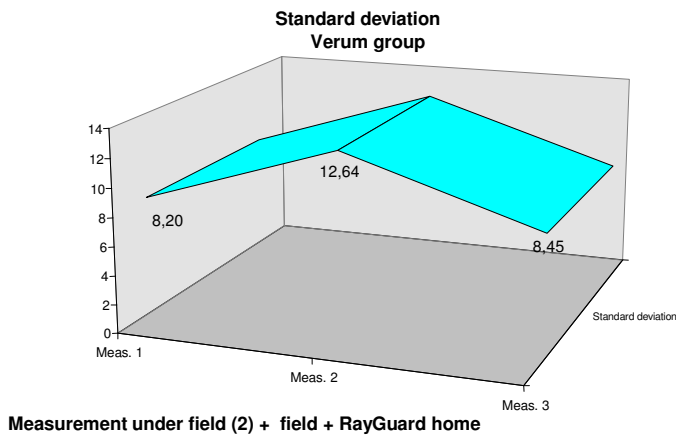
Graphic 5:
Comparison of the standard deviation of the mean value of the three measuring series



a.) Increase of the standard deviation in reference group 1 (without field) by approximately 26%.



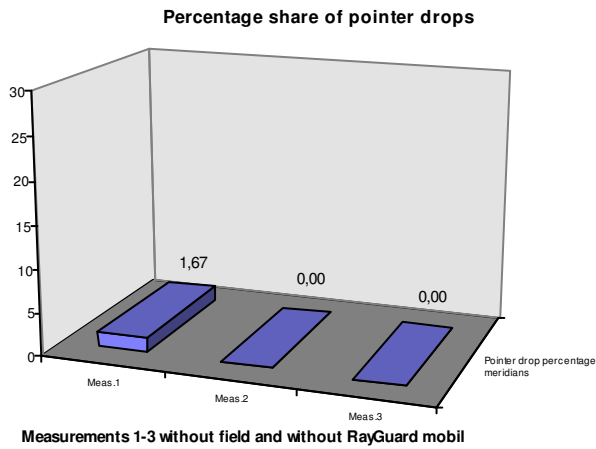
b.) Increase of the standard deviation in the reference group 2 (with field) by approximately 17%.



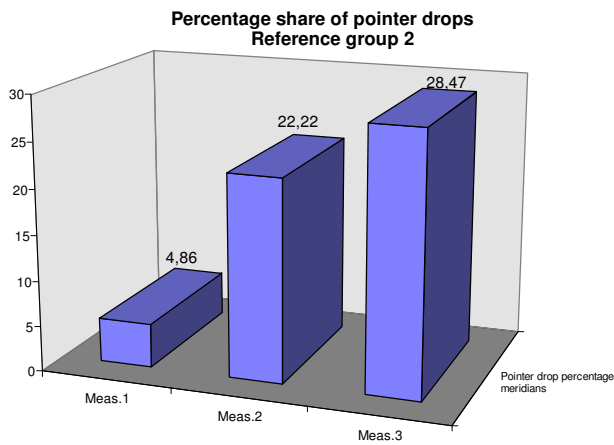
c.) Increase of the standard deviation in the Verum group under field by approximately 35%, after activation return by approximately 33% of the value so that a change of only just under 3% is recorded from measurement 1 to measurement 3.

Interpretation: The standard deviation of the Verum group as a dimension of the scattering range around a mean value is clearly reduced (approaches the basic value) after activation of the RayGuard mobil something that could not be observed in the three measurements of the reference groups.

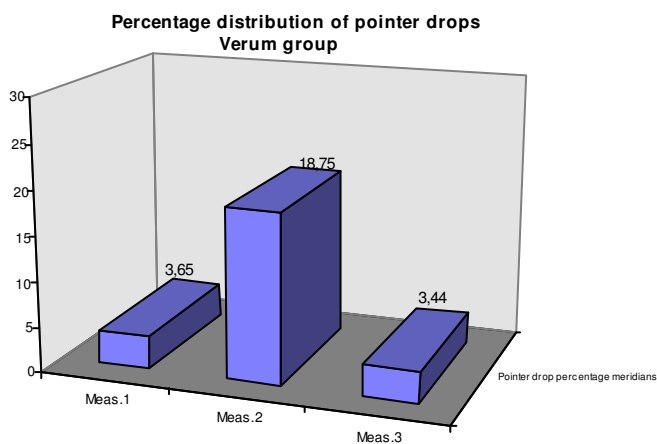
Graphic 6:
Percentage share of pointer drops based on the meridians



a.) Reference group 1: Almost no pointer drops with all three measuring series.



b.) Reference group 2: Severe increase of pointer drops under field.



c.) Increase of the pointer drops with field, reduction after activation of the RayGuard mobil

Interpretation: Increase of pointer drops during field exposure, which further increases with continued field exposure, but returns to the basic value after activation of the RayGuard mobil.