Psyche from within: Three Case Studies

Semyon Ioffe, Sergey Yesin

Northam Psychotechnologies, 2446 Bank St. Suite 632Ottawa ON K1V 1A8, Canada.
Email: sioffe@primus.ca

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ABSTRACT

A comparative look at the psychological health and the physical health industries uncovers the need for measurable quantitative testing in order to bring the psychological health field into the 21st century. We are using a proven set of subconscious mind testing technologies which revolutionize the quality of services and results in the field of psychological health. These technologies decrease the cost and increase the accuracy and effectiveness of psychological help. We look at three patient case studies to demonstrate the effectiveness of this new approach and familiarize psychological health practitioners and their patients with these technologies.

Keywords: Quantitative Analysis, Human Behaviour, Psycho-Semantics, Subconscious Teaching

1. Introduction

1.1. Health Issues

We all can agree that when we go for a yearly check up to the family doctor we expect some tests to be done depending on our age and health history, which might include blood pressure measurements, blood tests, possibly a cardiogram and others. But, when we have some particular health issues, there are numerous tests which can pinpoint specific areas of concern to help a doctor make a correct diagnosis and follow up with successful treatment.

Would you be surprised if your doctor, without performing any tests in spite of your symptoms, made a conclusion that you are healthy? Or, what if the doctor, without any complaint from you, made a conclusion that you are gravely ill and started prescribing some medicine or schedule of treatment for urgent intervention. You probably would be shocked and you would look for a second opinion before starting the treatment prescribed.

What about psychological problems and issues? Shouldn’t we expect the same approach when we have psychological problems, even such as poor appetite, bad sleeping patterns, continuous worries etc? Shouldn’t we expect to have a number of psychological tests to help medical and psychological practitioners to pinpoint or qualify psychological health issues and allow for follow up of successful treatment? Of course we should, but unfortunately such a unifying approach in psychological health is not in existence yet.

The bottom line is the health industry has ways of testing patients to determine an accurate course of treatment and has the tools to measure the effectiveness of treatment along the way. These tests also help the patient see their progress and keep them committed to the process. Until today, the field of psychology did not have such testing. Both patients and doctors rely on a patient’s personal opinion and communication and due to the complex nature of the disorders, we continue to have high rates of inaccurate diagnosis, treatment, prescription and disillusioned patients dropping out of treatment. Statistics for patients’ dropout rates from treatments varies greatly in literature, from as low as 16% to as high as 70% (http://www.gopubmed.org/web/gopubmed/statistics/mesh/10352).

Psychological problems indirectly affect all people through issues with a family member, friend or colleague. Twenty percent of people will personally experience a psychological problem during their lifetime. Psychological problems affect people of all ages, educational and income levels and cultures. The onset of most psychological problems occurs during adolescence and young adulthood. A complex interplay of genetic, biological, personality and environmental factors cause psychological problems.

Making the correct diagnosis and tailoring effective treatment to the individual’s needs are essential components of an overall psychological management plan.
For most people in the world, the primary care physician is their first and often only contact with the psychological care system. Under-diagnosis, misdiagnosis and under-treatment of psychological problems can result in poor outcomes.

The waiting time for appointments with a psychiatrist is between 3 to 12 months. Most of the psychologists are working outside the primary public health system and statistical data are mostly unavailable. As the current primary health gatekeepers to the public system, physicians deal with a host of psychological conditions.

According to some estimates, 60% of the conditions presented to primary care physicians are psychological, have a psychological component, or are highly influenced by psychological factors. In addition, although about 40% of high-end primary care users suffer from some form of depression, well over half of these individuals receive no treatment for their condition.

As a society, we should invest more in front-end psychological health services aimed at reducing the demand for psychological illness care services at the back end. As the first line of contact, primary psychological care units with the testing expertise and coordinating capacity to refer individuals quickly and effectively, rather than GP or acute care hospitals, should be the central focus of the psychological health care system.

2. Methods of Testing in Psychology

Psychological measurements of personality are often described as objective tests, projective tests and psychological tests.

2.1. Objective Tests

Objective tests have a restricted response format, such as allowing for true or false answers or rating using an ordinal scale. Prominent examples of objective personality tests include the Minnesota Multiphasic Personality Inventory, Millon Clinical Multiaxial Inventory-III [1], Child Behavior Checklist [2] and the Beck Depression Inventory [3].

Objective personality tests for recruiting potential business employees, such as the NEO-PI, the 16PF, and the Occupational Personality Questionnaire are all based on the Big Five taxonomy. The Big Five, or Five Factor Model of normal personality, has gained acceptance since the early 1990s when some influential meta-analyses e.g., Barrick & Mount [4] found consistent relationships between the Big Five personality factors and important criterion variables.

2.2. Projective Tests

Projective tests allow for a freer type of response. An example of this would be the Rorschach test, in which a person states what each of ten ink blots might be.

As improved sampling and statistical methods developed, much controversy regarding the utility and validity of projective testing has occurred. The use of clinical judgement rather than norms and statistics to evaluate people’s characteristics has convinced many that projective tests are deficient and unreliable (results are too dissimilar each time a test is given to the same person). However, many practitioners continue to rely on projective testing, and some testing experts e.g., Cohen [5] suggest that these measures can be useful in developing therapeutic rapport. They may also be useful in creating inferences to follow-up with other methods. Possibly they have lingered in usage because they have a mystical and fascinating reputation, and are more attractive to uninformed people than answering objective tests, e.g., true/false questionnaires. The most widely used scoring system for the Rorschach is the Exner system of scoring [6]. Another common projective test is the Thematic Apperception Test (TAT) [7], which is often scored with Western’s Social Cognition and Object Relations Scales [8]. Both “rating scale” and “free response” measures are used in contemporary clinical practice, with a trend toward the former.

Other projective tests include the House-Tree-Person Test, Robert’s Apperception Test, and the Attachment Projective.

In a national survey in the U.S., the Rorschach was ranked eighth among psychological tests used in outpatient mental health facilities Meloy, J. Reid, Gacano [9]. Psycho-diagnostic methods described above, objective and projective, have a number of serious deficiencies. For example, objective, direct methods of psycho-diagnostics based on the self-report, reveal only consciously realised and not actually operating motives. Even adequately realised motives can be distorted during testing because of their various social desirabilities and therefore socially undesirable motives are masked and socially desirable motives are demonstrated. Other groups of tests—projective, do not allow evaluation of precise quantitative changes during the course of treatment. The quality of the conclusion under the projective test highly depends on the level of preparation and professionalism of the psychologist who is carrying out the test.

These traditional investigational methods of observing the human psyche, including the active methods of presentation of various test problems, the analysis of the dynamics of learning, and questioner data collection are insufficient because between the researcher and the psyche of the subject being tested is the conscious mind, which mediates all actions and processing of information and modifies all reactions.
3. Psycho-semantic Tests

Psycho-semantic methods are free of the above described defects. The psycho-semantic approach allows the researcher to gain access to knowledge of how people think which is not always available to the people themselves. In psycho-semantics, the task for the individual is to provide some classification about a topic. The response could be a judgment of similarity, an indication of the extent to which she or he agrees or disagrees with a statement, or some other association. There are many different types of responses that are possible with this technique. On the basis of numerous responses to a range of stimuli, a matrix of data is obtained from each subject. The matrix can then be used with any analytic technique that is based on matrix algebra. These include a variety of well-known multidimensional procedures such as factor analysis, cluster analysis, latent variable modeling, and many others. As a result, the researcher can find “bundles” of interconnected meaning that form the coordinate axes of semantic space. The number of independent factors that emerge from an analysis defines the number of dimensions that are used to locate meanings in semantic space. According to these geometric models of the mind, the greater the number of independent factors that emerge from an analysis, the greater the cognitive complexity of the individual, group or social consciousness Osgood, Succi, & Tannenbaum [10], Osgood [10-13,24-28], Shevrin [29,30], Kostandov [31-33], Luriya [34], Smirnov, Beznosjuk, Zhuravlyov [16]. There have been some experimental attempts to define subjective semantic fields and connections (inside of them) using methods of associative experiment by Deese [17] and a conditional reflex Luriya & Vinogradova [35]. Initial premises were developed to study psyche processes that presumed to obtain the information of its semantic elements without traditional division into motivational, will and cognitive spheres. The foundation of such an approach was originated by Vygotsky [36].

The overwhelming majority of the methods of studying the psyche have not represented physical measurements. They neither maintained metrological requirements nor applied them consistently in experiments. We require psychological methods which allow us to use not only theoretical but also practical applications to learn mental functions without the influence of the conscious mind of the participant being tested. The work of Shevrin [29], Shevrin, Bond, Brakel, Hertel and Williams [30], Kostandov [31] and Dixon [22] include methods of subconscious presentation of the testing information. On the basis of these works, the conceptual models were constructed that are competing with traditional psychoanalytic postulates in their efficiency of the practical applications by Beznosjuk & Smirnov [37] and Smirnov, Beznosjuk & Zhuravlyov [16].

Applied on a subconscious level, psycho-semantic methods provide diagnostically significant structurally quantitative information for the organization of individual systems of values and attitudes [16,38,39]. In subconsciously applied psycho-semantic procedures, the statistics are collected not within the limits of groups of examinees but within the limits of repeating probes during testing procedures in a single examinee.

The subconsciously applied psycho-semantic method appears indirectly, presented to the examinee in the form of a “verbal game,” appealing, seemingly, only to linguistic competence. These methods actually open the subjective content of language symbols that is embodied in the structural formation work of real motives and goals of the subject [16,38-40].

3.1. Different Psycho-semantic Approaches

Is it possible to have a detailed and scientifically proven approach to the psychological research of psychosemantic spheres that will show which real connections were stimulated by a word and, if possible, to analyze the degree of probability of occurrence of these connections and degrees of affinity in which the separate components of this semantic system exists? In addition, are there any methods of objectively studying these semantic fields and their various incoming components?

Attempts to solve these problems have been repeatedly undertaken in psychology by Deese [17-20], Dixon [21, 22], Kelly [14], Noble [23], Osgood [10-13,24-28], Shevrin [29,30], Kostandov [31-33], Luriya [34], Smirnov, Beznosjuk, Zhuravlyov [16]. There have been some experimental attempts to define subjective semantic fields and connections (inside of them) using methods of associative experiment by Deese [17] and a conditional reflex Luriya & Vinogradova [35]. Initial premises were developed to study psyche processes that presumed to obtain the information of its semantic elements without traditional division into motivational, will and cognitive spheres. The foundation of such an approach was originated by Vygotsky [36].

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4. Materials and Methods

Out of a wide variety of patients coming into the outpa-
tient clinic of the Vishnevy Central Military Clinical Hospital, we have chosen three women (A, B and C) ages 35, 40 and 38 with identical complaints of insomnia, lack of appetite, internal anguish, bouts of anxiety. They were subjected to the following testing procedures:

1) MMPI—to identify if the patients have psychopathological conditions,

2) SMART—to identify motivational hot spots,

3) PsyExpert—to uncover how motivational hot spots associate with patients’ emotions in their subconscious mind and

4) SMART—to propose how subconscious teaching can help the patient to restore the harmony of the patients inner world.

MMPI—Minnesota Multiphasic Personality Inventory is one of the most widely used personality tests in mental health, based on the questionnaire performed on the computer screen. MMPI is an objective test and in our case studies used to identify normalcy or psychopathological conditions.

SMART—Semantically Mediated Analysis of Responses and Teaching technology is based on the universal principles of human behaviour and scientific experimentation. Humans are the product of information of their surrounding environment. Any traits, influences, abilities, etc are described and experienced through words, pictures, sounds etc. Information is categorized and prioritized by emotions throughout one’s life. The major content of the human’s informational being is not accessible to his/her conscious mind. It belongs to the subconscious mind.

SMART technology uses the universal principles of scientific experimentation. Each experiment consists of: Controls, Probes, Repers (Reference point) and Registered responses [16,38,39].

Each person is his own control, since every person’s psyche is different. It is important to understand that every individual test is a complete scientific experiment since it contains all the above-mentioned components.

Controls represent stimuli which have no meaning to the subject. They are in the form of a row of randomly-chosen 15 numbers that flash across the screen at a fraction of a second, registering through the retina into the brain. This control is then masked by a different row of randomly-chosen 15 numbers. The first row, the control, is seen subconsciously. The second row, the masker, is seen consciously.

The probes are semantically meaningful stimuli in the form of a word that moves across the screen at a fraction of a second, registering through the retina into the brain. This probe/word is then masked by a row of randomly-chosen 15 numbers. The probe/word is seen subconsciously and the masker row of numbers is seen consciously.

Reper is a different kind of control. It is a measurement developed to gauge defence reaction (the subject’s reaction to the “punishment” they receive during the test). This reaction is then measured to understand how the subject’s subconscious mind responds defensively.

Registered Response is the subject being asked to press a mouse button each time they see a row of numbers. The combined visual and motor reaction to the controls, probe and reper are measured by the response time between a stimuli and the subject pressing the mouse button.

Rigid requirements are placed on the respondent ensuring that they are unable to alter the test results in any way. The speed at which they react is measured. Statistical analysis of the relationship between the control, probe and reper is performed using the criteria of Lehmann-Rosenblatt.

The Universal Color-Associative Complex PSY-EXPERT is a unique psycho-diagnostic tool for creating an individual psycho-semantic space, its visualization and detailed examination. It uncovers how motivational hot spots associate with a patient’s emotions in their subconscious mind, defines an individual’s psycho-semantic space for follow up of subsequent subconscious reteaching and other psychological treatment.

PSY-EXPERT technology, used in the study, encompasses in itself all the best features of well known tests, such as the semantic differential [10,27], construct theory [14], “Max Luscher’s Test,” theory of the emotions [15] and others. The very heart of PSY-EXPERT is a concept of innate relations of human emotions and feelings with color. PSY-EXPERT uses classification of emotions by Leontiev [15]. The corner stone of this classification are eight basic emotions representing human personal needs. http://emoatlas.narod.ru/book1.html. The PSY-EXPERT test incorporates an equal number of basic emotions, connected with individual needs of the personality (positive and negative, directed on itself or on the object, anticipating or ascertaining).

4.1. The PSY-EXPERT Test is Comprised of a Number of Steps

1) The subject being tested looks through a number of pictures illustrating various life situations, recognizes some as opposite pairs of emotions, names them and undersigns. It is natural that the emotions especially relevant to the subject being tested are “recognized” with ease.

2) The colors of a visible spectrum are shown one by one and the subject being tested is asked to select for each of the emotions (poles of the constructs) revealed in the previous step, the most “desirable” colors and evaluate their strength using a scale from 1 to 10 [10].

Consequently, pairs of opposite emotions (the con-
Structs) are replaced with corresponding pairs of colors.  
3) Evaluation of the elements with these color associative pairs is carried out.  
Evaluating the elements by colors, the subject being tested does not suspect that he/she is actually “associating” each element with an individual specific emotion (the pole of the construct), thus openly revealing their inner world.  
4) In conclusion, the colors are ranked by the subject being tested in the order of desirable-undesirable colors. Identified emotions (poles of constructs) and elements are all included in the same order of colors.  
Calculation is provided for a number of statistical indices: color correlation, index of cognitive differentiation (connection intensity), exact distances between all the objects in psycho-semantic space and conflicts of personality of self identification.  
The technology is able to solve complex tasks on a much higher level than Kelly’s construct theory, Semantic Differential and Luscher’s Test individually.  
The test results are displayed in graphic form as a 3D color psycho-semantic space represented as a Runge’s Sphere with basic emotions, constructs and elements situated within and also displayed in a printable form, comprising a detailed description of analysed psycho-semantic space.  
5. Results  
MMPI test results for patients A, B and C presented in Figure 1.  
Patient A showed a high level of depression, suicide risk and anxiety, tension (Psychasthenia). Patient A has all bases for urgent prescription of antidepressants.  
Test results for patient B suggest an accentuated neurotic type patient, with borderline depression. This patient requires an appointment with a Psychologist to work on self worth and confidence.  
Test results for patient C showed signs of high levels of Hypochondria and Schizophrenia. Therefore this patient requires the earliest appointment with a Psychiatrist.  
Thus, we see that, despite identical complaints of insomnia, lack of appetite, internal anguish and bouts of anxiety these women have various degrees of des-adaptations, various “breakdown” of mechanisms of socio-psycho logical adaptation, and require totally different approaches for correction of their conditions.  
As we do not know the source for psychopathological conditions in these patients, we used SMART technology to identify their inner conflicts and understand how the elimination of this problem will impact the patient’s pathological state.  
Each of the three patients were subconsciously tested for a variety of topics including sex abuse, relations with family members, personal appearance, phobias, work and others to identify motivational hot spots.  
Patient A after SMART testing Figure 2 revealed inner conflicts with SEX WITH MAN, SEXUAL ABUSE, HUSBAND and WORK from the list of elements tested. We constructed a psycho-semantic space for patient A using PsyExpert and using elements discovered by SMART testing as hot spots SEX WITH MAN, SEXUAL ABUSE, HUSBAND and WORK.  
Figure 3 depicts the state of patient A’s subconscious mind at the time of PsyExpert testing. Emotions of FEAR and SUSPICIOUSNESS are associated in the subconscious mind of Patient A with the concept of SEX WITH MAN. The emotion of ANGER is associated with the concept of SEXUAL ABUSE. We see that the emotion of GUILT is associated with Patient’s A present and past relations with HUSBAND (black colour).  
Possibly the husband does not know about an episode of sexual abuse in the past. Almost all described emotions and hot spot concepts are associated with least preferred colors except for the concept of WORK and the emotion of
HOPE which are yellow in color.

After consultation with a GP and with the agreement of the patient, subconscious teaching was administered. The following word combinations were used for subconscious teaching: IT’S NOT MY FAULT, I AM NOT GUILTY, LOVE HUSBAND, FAMILY HAPPINESS, THE BEST MAN HUSBAND, HUSBAND-SEX, HUSBAND-SATISFACTION, SEX SELF-ESTEEM, FEAR IN THE PAST, SUSPICION IN THE PAST. Figure 4 depicts results of the psycho-semantic space changes during PsyExpert testing of Patient A’s subconscious mind, after three times per week of a four week period of subconscious teaching. We discovered that the emotion of GUILT was not associated any more with the past or present and did not relate to HUSBAND. The emotions of FEAR and SUSPICION were left in the past. HUSBAND is now associated with the emotion of SATISFACTION and SEX with the emotion of SELF-RESPECT. Present and future outlook and WORK are associated with HOPE.

We can see that collaborative efforts of the medical practitioner and subconscious teaching has eliminated a sense of guilt and has restored harmony in family relations, which was corroborated by the patient.

SMART testing of Patient B (Figure 5) revealed inner conflicts with a number of concepts of APPEARANCE, OVERWEIGHT and YOUR BODY.

PsyExpert testing using as elements APPEARANCE, OVERWEIGHT and YOUR BODY (Figure 6) illustrates the state of Patient B’s subconscious mind at the time of testing.

We can see that rejected colors BLACK, RED and

![Figure 2](image-url). SMART test results of Patient A. On the bottom the words tested subconsciously. Numbers from 0 to 0.8 represent a nonparametric criteria of Lehmann-Rosenblatt for homogeneity test 0.46 (p < 0.05) and 0.74 (p < 0.01). Issues, so called hot spots of the subconscious mind are indicated in red which depicts statistically significant results.
Figure 3. The PsyExpert test results for patient A. On the right are visualized hot spots/issues in association with emotions in the psycho-semantic space in the form of Runge sphere. On the left top the numbers 1 to 5 represent different spheres. Below the row of colors from the most preferred color on the left to the least preferred color on the right by patient A are shown and it defines positions of the flags on the Runge sphere in terms of patient’s preferences. Color on the flags is red for emotions and white for elements. On the left also shown some of the elements (hot spots) tested in the patient A.

Figure 4. The PsyExpert test results for patient A four weeks after subconscious teaching. On the right are visualized elements in association with emotions in psycho-semantic space in the form of Runge sphere. On the left top the numbers 1 to 5 represent different spheres. Below the row of colors from the most preferred color on the left to the least preferred color on the right by patient A are shown and it defines positions of the flags on the Runge sphere in terms of patient’s preferences. Color on the flags is red for emotions and white for elements. On the left also shown some of the elements tested in the patient A.
PURPLE were associated with concepts YOUR BODY, APPEARANCE, DISGUST, CONTEMP and OVERWEIGHT.

This information was discussed with a staff psychologist and with patient’s B agreement subconscious re-teaching was administered twice weekly for 5 weeks.

The following word combinations were used for subconscious teaching: YOUR BODY IS BEAUTIFUL, YOU LOOK GREAT, BODY SELF ADMIRATION, BODY-RESPONSIBILITY, BODY-SELF-ESTEEM, BODY-SATISFACTION, BODY-PLEASURE, SELF ASSURANCE, YOU ARE BEAUTIFUL, KNOW YOU ARE BEAUTIFUL.

The PsyExpert testing results (Figure 7) portrays the state of Patient B’s subconscious mind after five weeks of subconscious teaching.

The same words BODY, APPEARANCE were associated with preferred colour areas of semantic space in the subconscious mind of patient B. The initiating factors of the illness (aversion of the body, appearance) were corrected.

In Patient C (Figure 8) SMART testing uncovered inner conflicts with SHOPPING, MONEY and OVERSPENDING.

The psycho-semantic space (Figure 9) built with the help of PsyExpert depicts the state of Patient C’s subconscious mind at the time of testing: The most preferred color red was associated in the subconscious mind of Patient C with the emotion of SATISFACTION. The concept of SHOPPING and the next preferred yellow color was associated with the emotion of PLEASURE and concepts of I AM IN PRESENT and OVERSPENDING. The emotion of IRRESPONSIBILITY was associated with the MONEY concept. After consultation with the staff psychiatrist and with patient’s C agreement subconscious teaching was administered three times.

Figure 5. SMART test results of Patient B. On the bottom the words tested subconsciously. Numbers from 0 to 0.8 represent a nonparametric criteria of Lehmann-Rosenblatt for homogeneity test 0.46 (p < 0.05) and 0.74 (p < 0.01). Hot spots of the subconscious mind are indicated in red which represent statistically significant results.
Figure 6. The PsyExpert test results for patient B. On the right are visualized hot spots in association with emotions in the psycho-semantic space in the form of Runge sphere. On the left top the numbers 1 to 5 represent different spheres. Below the row of colors from the most preferred color on the left to the least preferred color on the right by patient B are shown and it defines positions of the flags on the Runge sphere in terms of patient’s preferences. Color on the flags is red for emotions and white for elements. On the left are shown some of the basic patient B’s emotions.

Figure 7. The PsyExpert test results for patient B five weeks after subconscious teaching. On the right are visualized elements in association with emotions in psycho-semantic space in the form of Runge sphere. On the left top the numbers 1 to 5 represent different spheres. Below the row of colors from the most preferred color on the left to the least preferred color on the right by patient B are shown and it defines positions of the flags on the Runge sphere in terms of patient's preferences. Color on the flags is red for emotions and white for elements. On the left are shown some of the basic patient B’s emotions.
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Figure 8. SMART test results of Patient C. On the bottom the words tested subconsciously. Numbers from 0 to 0.8 represent a nonparametric criteria of Lehmann-Rosenblatt for homogeneity test 0.46 (p < 0.05) and 0.74 (p < 0.01). Hot spots of the subconscious mind are indicated in red which depicts statistically significant results.

weekly for three weeks.

The following word combinations were used for subconscious teaching: SHOPPING-IRRESPONSIBILITY, OVERSPENDING-IRRESPONSIBILITY, MONEY-RESPONSIBILITY, KEEP MONEY, MONEY-NECESSITY, I HAVE ALL I NEED, I AM HAPPY.

The state of Patient C’s subconscious mind, as psycho-semantic space (Figure 10), depicts results of the sub-conscious teaching after three weeks: new associations of concept I AM IN PRESENT with the emotion of SATISFACTION, concepts of OVERSPENDING, SHOPPING with the emotions of IRRESPONSIBILITY and the emotion of RESPONSIBILITY with MONEY concept were formed.

This suggests that the patient’s spending patterns have been changed and these changes were corroborated by the patient.

6. Conclusions

In this paper, we have presented three patients with identical complaints of insomnia, lack of appetite, internal anguish, and bouts of anxiety. Such patients would generally be managed by a GP, who would probably offer them the same type of sleeping or tranquillizing medicine. Such an approach would provide temporary relief from most of the symptoms, but complaints would return once the patient stopped using medication because of a side effect or if and when a patient became used to the dosage. We can see that a short term solution would be achieved to solve the problem but the source of illness would not be addressed at all.

Results of each patient testing using SMART technology presents us with the issues each of the patients was facing in their general lives most of the time without con-
Figure 9. The PsyExpert test results for patient C. On the right are visualized hot spots in association with emotions in the psycho-semantic space in the form of Runge sphere. On the left top the numbers 1 to 5 represent different spheres. Below the row of colors from the most preferred color on the left to the least preferred color on the right by patient C are shown and it defines positions of the flags on the Runge sphere in terms of patient’s preferences. Color on the flags is red for emotions and white for elements. On the left also shown some of the elements (hot spots) tested in the patient C.

Figure 10. The PsyExpert test results for patient C three weeks after subconscious teaching. On the right are visualized elements in association with emotions in psycho-semantic space in the form of Runge sphere. On the left top the numbers 1 to 5 represent different spheres. Below the row of colors from the most preferred color on the left to the least preferred color on the right by patient C are shown and it defines positions of the flags on the Runge sphere in terms of patient’s preferences. Color on the flags is red for emotions and white for elements. On the left also shown some of the elements tested in the patient C.
scious realisation of the issues.

Each of the patients presented in this study were beneficiaries of the combined treatment of the primary physician and subconscious teaching procedures. These measures returned all patients to good health and normalcy, which was corroborated by the observation of the changes in the patient’s subconscious mind using PsyExpert technology, the patients and primary physician.

The above described technologies represent standardized quantitative psychological measurements and will help us to decrease the cost and increase the accuracy and effectiveness of psychological help.

For most people in the world, the primary care physician is their first and often only contact with the psychological care system. Under-diagnosis, misdiagnosis and under-treatment of psychological problems can result in poor outcomes.

As a society, we should invest more in front-end psychological health services aimed at reducing the demand for psychological illness care services at the back end. As the first line of contact, primary psychological care units with the testing expertise and coordinating capacity to refer individuals quickly and effectively, rather than GP or acute care hospitals, should be the central focus of the psychological health care system.

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