ISSN 2159-5542 (Print) ISSN 2159-5550 (Online) DOI:10.17265/2159-5542

PSYCHOLOGY RESEARCH

Volume 5, Number 12, December 20 1



From Knowledge to Wisdom

David Publishing Company

David Publishing Company

Psychology Research

Volume 5, Number 12, December 2015 (S 1 1 Number 54)



David Publishing Company www.davidpublisher.com

Publication Information:

Psychology Research is published monthly in hard copy (ISSN 2159-5542) and online (ISSN 2159-5550) by David Publishing Company located at 1840 Industrial Drive, Suite 160, Libertyville, IL 60048, USA.

Aims and Scope:

Psychology Research, a monthly professional academic journal, has three main columns: General Psychology, Developmental and Educational Psychology, Applied Psychology, which cover all sorts of psychology researches a Biopsychology, Cognitive Psychology and Psychology, Industrial and Organizational Psychology, Community Psychology, Comparative Psychology, Experimental Psychology, Industrial and Organizational Psychology, Personality Psychology, Physiological Psychology, Psychobiology, Psychometrics and Quantitative Psychology, Social Psychology, Psychology, Interpersonal Relation Psychology, Culture Psychology, Philosophical Psychology, Management Psychology, Psychology, Psychology, Psychology, Philosophical Psychology, Consumption Psychology, Psychology, Psychology, Psychology, Advertising and Transmitting Psychology, Public Psychology, Consumption Psychology, Psychology, Traveling Psychology, Group Psychology, Literary Psychology, Labor Psychology, Le Psychology, Positive Psychology, Criminal Psychology, Sport Psychology, Peace Psychology, as well as other issues.

Editorial Board Members:

Hanna Brycz Arcady Putilov Yulia Solovieva Alina `eor eta Mag

Sharma Basu Di You Siddharth Agarwal Sefa Bu.

Elena Fabiola R. Ledesma Konstantin Chichinadze Firoz Kazhungil Said Suliman Aldhafri

Ungsoo Samuel Kim Tal Dotan Ben Soussan Sefa Bulut

Abootaleb S. Shamir Hari Narayanan. V. Said Suliman Aldha Sanja Tatalovic Vorkapic Neelam Kumar Chao-Ming C

Manuscripts and correspondence are invited for publication. You can submit your powers volves submission, or E-mail to psychology@davidpublishing.com and psychology@davidpublishing.or Sulmission guidelines and Web submission system are available at http://www.davidpublisher.com.

Editorial Office:

1840 Industrial Drive, Suite 160, Libertyville, IL 60048, USA

Tel: 1-323-984-7526, 323-410-1082; Fax: 1-323-984-7374, 323-96

E-mail: psychology@davidpublishing.com, psychology aux. ubln ing.org, psychology2159@yahoo.com

Copyright©2015 by David Publishing Company (d individual contributors. All rights reserved. David Publishing Company holds the exclusive copyright of all the contents of this purnal. In accordance with the international convention, no part of this journal may be reproduced or tansmit of the part and the written permission of the copyright. The contents of this journal are available for any citation. However, all the citations should be clearly indicated with the title of this journal, serial number and the ame of the author.

Abstracted/Indexed in:

EBSC(Database of Legellent papers in ERIC CiteFactor Massachusetts, USA Pro uest/CSA Social Science Electronic Journals Library CrossRef Scientific Indexing Services Collection, Public Affairs Hein Online Database, W 5.HE V Information Service (PAIS), USA Newjour USA Summon Serials Solutions Scholarsteer Database Fee' .ai of CEPS, Chinese PRN (Polish Scholarly Sherpa/Romeo Computer American Bibliography) Pubget Library Center OCLC), U A Google Scholar WZB (Berlin Social Science Sc entific Chinese Jurnals J-Gate Center) Database $I \supset$ **SCRIBD** ResearchBible Corp ration,

S-Journal Index

Academic Kev

Pubicon Science

Ulri s Perio cals Directory Sub ription Into mation:

Chong ag, R.C.

Price (year): Print \$450 Online \$320; Print and Online \$600

D' id Pub, hing Company

640 Industrial Drive, Suite 160, Libertyville, IL 60048, USA

Tel: 1. 23-984-7526, 323-410-1082; Fax: 1-323-984-7374, 323-908-0457

r 1: order@davidpublishing.com



David Publishing Company www.davidpublisher.com

Psychology Research

Volume 5, Number 12, December 2015 (Serial Number 5.)

Contents

General Psychology

| Rater Effect on the Behavior Rating Inventory of Executive Fu vion \d lt | |
|--|-----|
| Version in Traumatic Brain Injury | 661 |
| Wen Pey-Shan, Waid-Ebbs J. Kay, Velozo Craig A. | |
| Ancestor Advantages Prime Better Intellectual Per orman es—L olutionary | |
| Psychology-Based Intelligence Priming Effect | 672 |
| Zhang Shu, Guo Qingke | |
| Developmental and Educational Ps __ cholog | |
| Children's Cognitive Developmer in ocial Vulnerability: An Interventional Experience | 684 |
| María Cristina Richaud, Vaness 1rán Fili _{F.} etti | |
| Dynamics of Psychopathology 5 mp. ms in Opiate-Dependent Patients During Therapy | 693 |
| Igumnov Sergey Aleks 'rovic an'ko Edward Pavlovich, Nestsiarovich Anastasiya Nikolayevna | |
| Applied Psychology | |
| Examining the Satis action and Values of Domestic and International Marriages | 701 |
| Stephanie J Thorson- lesen | |
| C .npara ve Study on Miao Medicine and Bamboo and Silk Medicine | 708 |
| Wa. & Qixian, Zhang Yang | |



Dynamics of Psychopathology Symptoms in Opiate-Dependent Patients During Therapy

Igumnov Sergey
Aleksandrovich
Serbsky Federal Medical Research
Centre of Psychiatry and Narcology,
Ministry of Health of the Russian
Federation, Moscow, Russia

Stan'ko Edward Pavlovich Educational Institution, Grodno State Medical University, Grodno, Belarus Nestsiarovic¹ Anastas ¹a

Nikot 'evna

Belarusiar tate Med al University,

Mins¹ , L 'arus

The article provides the results of the clinical and psychological invergation of dicators related to psychopathological state of HIV-positive (HP) and HIV-negative (HN) parts with on the dependence before and after the treatment at the stages of establishment and stabilization of register. 1. Occeptives: to investigate the structure and dynamics of psychopathological symptoms in HIV-postive and HIV-negative patients with opiate dependence. Material and methods: Investigated sample included a patients. Severity of the major psychopathological symptoms was assessed in dynamic, with 'e questionnaire SCL-90-R. The structure of psychopathological symptoms in patients with opiate decendency is presented. The changes of psychopathological indicators are revealed in the sample studied before and after the unattended to the unattended in the sample studied before and after the unattended in the sample studied before and after the unattended in the sample studied before and after the unattended in the sample studied before and after the unattended in the sample studied before and after the unattended in the sample studied before and after the unattended in the sample studied before and after the unattended in the sample studied before a sampl beginning of observation). Results: The findings 'emonstrate nore severe psychopathology in HP patients versus HN ones. It was found that SCL-90-R sees in persons when higher than in healthy individuals, despite of their positive dynamics at discharge, indicting to failure of the short-term therapy course to normalize the mental state of patients with opiate dependence d the need develop the algorithm for such patients, including the long-term, comprehensive programs of treati and and rehabilitation that are corrected according to the patient's needs. Conclusions: The course of the short term catment allows to achieve the clinical improvement at the stage of the remission establishm a, t doe t t stabilize the mental state of the drug-dependent patients with HIV; that indicates the need to devision bing-term, comprehensive treatment and rehabilitation programs based on the patient's need-

Keywords psychopath 'ogy, dynamic assessment, opiate dependence, HIV

Introduction

In proving the effectiveness of treatment and the quality of remission in drug-dependent patients (DDP) is a complicated task for modern research in the area of addictive disorders. High prevalence of drug addiction, its common co-morbidity with mental disorders, the lack of willingness of addictive disorders services to meet the

Ig ov Sergey Aleksandrovich, M.D., professor, Serbsky Federal Medical Research Centre of Psychiatry and Narcology, Ministry of Health of the Russian Federation.

Stan'ko Edward Pavlovich, M.D., associate professor, Educational Institution, Grodno State Medical University. Nestsiarovich Anastasiya Nikolayevna, M.D., Belarusian State Medical University.

challenges of effective psychosocial rehabilitation of DDP make this problem topical (Ivanec & Vinnikova, 2011; Ribakova, 2012). Providing DDP with mainly short-term assistance and incomplete coverage them with medical observation contribute to displacement of the comprehensive approach to drug dependence treatment. As a result, patients do not receive all the required amount of medical and rehabilitation care, which leads to disease progression and chronization (Krupicky, 2010; Magalif & Magalif, 2003). Specialized care is lin tect to relief of withdrawal states or acute conditions related to psychoactive substances (PAS) consumption. As a result, 90% of DDP who underwent a single one year course of in-patient treatment renew the ununtrolled use of drugs, and more than 70% of them are admitted to hospital for treatment several times per year (Iliuk, 2012).

Substance abuse disorders, as well as other psychiatric disorders have a progressive neture. Seir complete cure is an infeasible task. An inherent part of the disease is a relapse state that occurs ar ong the trial to control the drug use. The long-term remission and recovery have to be achieved stepwise. The vir nee c inadequacy of "complete refusal of drug use" criterion in assessment of the therapeutic result require. 'he' velopment of methods for the dynamic evaluation of treatment effectiveness and emi , n quality with the use of multidimensional psychometric instruments. Symptoms of drug dependence constitute a wide range of disturbances related to "big" and "borderline" psychiatry wit the ev lent unity of mental and somatic-neurological abnormalities. Mental disorders occur in 50%-75 5 CDL and have an adverse effect on the quality of their remission. The most common psychopathol, ical istu, ances in the clinical structure of drug dependence are affective disturbances. Mood disorders are no mild melancholy to severe depressive states and contribute to the craving for PAS and to withd awal atte. PAS induced psycho-emotional disturbances interfere with the formation of a stable remision and lead to the disease relapse in 50% of cases (Iliuk, Krupicky, & Shishkova, 2012). Intrinsic precious vice rect of opiates influences the entire spectrum of mental and behavioral disorders that are complex a 1 manifest with multifaceted symptomatology. Identification of certain psychopathologica' sym, oms what choosing the treatment strategy may enhance the effectiveness of DDP treatment. It is biggesterest the study of the structure and dynamics of psychopathological symptoms before and after the treatment, at the stage of follow-up observation to evaluate the treatment effectiveness and the r 1. sion quality in patients with opiate addiction.

The aim of the present study was to investigate the structure and dynamics of psychopathological symptoms in DDP before and after the treatment course, during the remission formation and stabilization.

Material and Methods

The main o' year of the study is represented by HIV-positive patients with opiate addiction, living on the territory of the t

'he presen, 'tudy is combined (cross-sectional and prospective) with regular monitoring (6-fold research) studic 'psychopathological parameters before and after the treatment course during the follow-up period—1, 3, 6 and 12 conths after the beginning of observation. The clinical study was performed in accordance with the CoP rule', according to the protocol with the use of the standardized registration card of patient (Good clinical p. cti. 2, 2005).

The total of 376 HP patients (I group) and 444 HN patients (II group) were examined. The main group (I) included patients with the verified diagnosis of "opiate dependence" F11.2x and "HIV" B20, meeting the

relevant ICD-10 criteria. The age of HP patients ranged from 13 to 53 years, the average age was 32.9 years (SD = 5.54); for males—33.7 years (SD = 5.59) and for females—30.8 years (SD = 4.86). Disease duration was 10 years and more. Patients who refused to participate in the survey were excluded from the observation group, as well as the patients in a state of withdrawal, with severe organic personality changes, acute psychotic disorder, exacerbation of mental illness or physical illness decompensation, mental retardation, definition of mental illness or physical illness decompensation, mental retardation of mental illness or physical illness decompensation, mental retardation of mental illness or physical illness decompensation, mental retardation of mental illness or physical illness decompensation, mental illness or physical illness decompensation, mental retardation of mental illness or physical illness decompensation. schizophrenia. The control group included 65 healthy individuals (Minko, 2009). Verification (somatic pathology was conducted by the qualified experts from the staff of specialized medical institution with odern diagnostic equipment.

The questionnaire Symptom Checklist-90-Revised (SCL-90-R) (Derogatis, Lipmon, & Covi, 1973; Derogatis, Rickels, & Rock, 1976) in the adapted version of N. V. Tarabrina (2001) was used for multi-dimensional evaluation of psychopathology severity, after relief of the path 't' with rawal state. SCL-90-R is designed for patient's self-completion and does not require participation of a recir st. It consists of 90 items, each of which is estimated with five-point scale (from 0 to 4); here vis "Not at an" and 4 is "Very much". Answers related to these 90 points are calculated and interpreted under 9. ajor symptomatic scales: Somatization (SOM), Obsessive-Compulsive symptoms (O-C), Interverse all ensitivity (INT), Depression (DEP), Anxiety (ANX), Hostility (HOS), Phobic Anxiety (PHOB), a. noice eation (PAR), Psychoticism (PSY).

Three general scales of the second order are also used I—, e lobal severity index; PTSD—positive symptom distress index; PST—positive symptom total results of the CL-90-R can be interpreted at three levels: the overall severity of psychopathological sympt m, severity of individual scales and severity of individual symptoms.

Statistical analysis was performed with the use of the software package Statistica 10.0 (SN AXAR207F394425FA-Q). In order to desc be to distribution of quantitative variables in the sample we used the mathematic expectation (M) and α dard deviation (SD) format $M \pm SD$ or median (Me) and the interquartile range in the form of Me (LQ-U), where LQ is the lower quartile, UQ—the upper quartile. To compare the groups by the quantita v variable, we used nonparametric methods: U Mann-Whitney test for independent samples and W'coxo tes for related samples. Analyzed differences were considered as statistically significant at r = 0.05

Results

The prevale see a mental disorders among injecting drug users (IDUs) is 8 times higher than the average one in general opulation 50% of those infected with HIV suffer from mental disorders (Sumarokova, 2009). HIV-positive surjects suffer from affective, cognitive and addictive disorders, dementia. Substance dependence and H^V mu, ally avate each other, which leads to a rapid progression of HIV infection. While increasing the sease severity, HIV infection increases the probability of psychotic disorders development in DDP. ombin 1 HIV, drug addiction and mental disorders deteriorate the course of comorbid state, worsen the prog osis a 1 increase the risk of spreading the infectious diseases and drug addiction. Personality disorders c found in 28.9% of DDP (Iliuk et al., 2012). Mental disorders have a negative impact on the therapeutic a, ar ics and the treatment efficacy and may determine the resistance in DDP (Bohan, Katkov, & Rossinsky, 2005). It should be noted that the deterioration of craving for the drug often manifests itself with mental (affective) and behavior disturbances in DDP (Rohlina et al., 2002).

Acute intoxication and withdrawal state occur in a more severe form in DDP with mental disorders than in DDP without ones. The presence of mental disorders in DDP makes it difficult to identify and control spontaneously arising primary craving for the drug in withdrawal state, provoking cognitive impairments in the form of thought disorganization and attention deficit (Bohan et al., 2005).

The studied sample was mostly represented by the patients with low levels of education and low the soft employment, problems at work and in the family, low moral qualities and criminal behavior. Patient indicated that drug dependence and health problems had affected their vitality and emotional state, the original vel of social functioning and the intensity of social contacts in particular. Evaluation of psychopathological symptoms in groups of patients revealed that scores in HP patients were higher before the treatment (see Tau 1).

Table 1
Results of the Symptoms Severity Assessment in HP and HN Patients Prior to Treatment

| SCL90R | I group $(n = 376)$ | | | | | | II grou) (n 444) | | | | | |
|-----------|---------------------|------|------|-------|------|------|-------------------|------|------|------|----------------|--|
| Subscales | Q25 | Med | Q75 | Means | SD | Q25 | Med | Q75 | eans | SD | - r | |
| SOM | 1.16 | 1.83 | 2.25 | 1.72 | 0.74 | 0.85 | 1.33 | 83 | 1.4. | 0.71 | 0.000000 | |
| O-C | 0.80 | 1.40 | 1.90 | 1.34 | 0.66 | 0.60 | 1.10 | 1 | 1.13 | 0.66 | 0.000006 | |
| INT | 0.66 | 1.11 | 1.66 | 1.30 | 0.72 | 0.55 | 1.00 | 1.55 | 1.07 | 0.71 | 0.000000 | |
| DEP | 1.07 | 1.69 | 2.15 | 1.64 | 0.71 | 0.92 | 1.38 | 1. 2 | 1.46 | 0.74 | 0.000578 | |
| ANX | 0.90 | 1.60 | 2.10 | 1.55 | 0.79 | 0.70 | 0' 1 | 1.80 | 1.26 | 0.75 | 0.000000 | |
| HOS | 0.66 | 1.33 | 2.16 | 1.41 | 0.83 | 0.5 | 1.0Ն | 1.60 | 1.12 | 0.77 | 0.000001 | |
| PHOB | 0.28 | 0.71 | 1.14 | 0.77 | 0.63 | .14 |).42 | 0.85 | 0.58 | 0.58 | 0.000004 | |
| PAR | 1.00 | 1.50 | 2.00 | 1.53 | 0.75 | L 6 | 1.00 | 1.67 | 1.22 | 0.76 | 0.000000 | |
| PSY | 0.40 | 0.90 | 1.40 | 0.94 | 0 | 0.3ს | 0.70 | 1.10 | 0.79 | 0.61 | 0.000435 | |
| ADD | 1.14 | 1.71 | 2.14 | 1.65 | .75 | 1 ,0 | 1.57 | 2.14 | 1.59 | 0.78 | 0.180215 | |
| GSI | 0.91 | 1.47 | 1.88 | 1.40 |).61 | 0. | 1.15 | 1.60 | 1.19 | 0.60 | 0.000000 | |

Notes. SOM: Somatization, O-C: Obsessive-Compulsive, NT: Intercrisonal Sensitivity, DEP: Depression, ANX: Anxiety, HOS: Hostility, PHOB: Phobic Anxiety, PAR: Para Dideation, Description, ADD: Additional Scale, GSI: Global Severity Index.

As can be seen from Table , he comparison of HP and HN patients before the treatment with Mann-Whitney test has revealed sign fical differences: All scores of SCL-90-R scale were significantly lower in HN patients, compared the FP case. Noteworthy is the fact that statistically significant differences at the level of p < 0.0005 were related and of the questionnaire items (except for the values of the additional scale). The highest scores of SCL-90-R vere observed in HP patients prior to treatment on the scales of somatization, depression, anxioty, parabolic dation and hostility, the lowest scores—on the scales of obsessive-compulsive symptoms, into personal substituty, psychoticism and phobic anxiety. The Global severity index in HP patients before the path of the patients of the patients (respectively, 1.40 (SE = 0.61) and 1.19 (SE = 0.60)

respite of the treatment course, the highest scores that HP patients displayed at discharge were found on the scale. If "paranoid ideation", "depression", "somatization" and "anxiety", the lower scores were found on the cales "obsessive-compulsive symptoms", "hostility", "psychoticism" and "phobic anxiety" (see Table 2).

As can be seen from the Tables 1 and 2, the most prominent clinical differences in HP patients prior to tree, cent and after it were found on the scale "somatization" (1.7 times) and this score was within the range of Me 0.95 (0.50-1.41) at discharge. The levels of obsessive-compulsive symptoms, hostility, depression and

anxiety have reduced 1.5 times at discharge in HP patients; the interpersonal sensitivity, phobic anxiety and psychoticism have reduced 1.4 times and paranoid ideation has reduced 1.3 times. The Global severity index has decreased 1.5 times, but its inter-quartile range has remained within Me 0.88 (0.46-1.41) in HP patients at discharge.

The data obtained have shown that, despite the significant reduction in the severity of psychopathe og. 1 symptoms of all SCL-90-R scales, their average values in HP patients were still higher than those coes in HN patients and healthy individuals after the treatment course.

Table 2 Results of the Symptoms Severity Assessment in HP and HN Patients After the Treatment .t Disch. 'ge)

| SCL90R | I group $(n = 376)$ | | | | | | II | | 2 | | |
|-----------|---------------------|------|------|-------|------|------|------|------|-------|------|----------|
| subscales | Q25 | Med | Q75 | Means | SD | Q25 | Med | Q75 | Means | 7 J | |
| SOM | 0.50 | 0.95 | 1.41 | 1.02 | 0.64 | 0.41 | 0.75 | 1.16 | 0.80 | L 3 | 0.000038 |
| O-C | 0.40 | 0.83 | 1.40 | 0.88 | 0.57 | 0.40 | 0.70 | 1 10 | ે.80 | 0.50 | 0.067729 |
| INT | 0.44 | 0.88 | 1.33 | 0.93 | 0.64 | 0.44 | 0.67 | 1.00 | 0. 5 | 0.52 | 0.001249 |
| DEP | 0.53 | 1.00 | 1.53 | 1.11 | 0.65 | 0.53 | 0.84 | 1.11 | 0.98 | 0.58 | 0.021569 |
| ANX | 0.50 | 0.90 | 1.50 | 1.03 | 0.66 | 0.40 | 0.70 | 1.1Ն | 0.80 | 0.50 | 0.000047 |
| HOS | 0.33 | 0.83 | 1.50 | 0.94 | 0.72 | 0.33 | 0.66 | . 70 |).69 | 0.49 | 0.000200 |
| PHOB | 0.14 | 0.57 | 0.85 | 0.54 | 0.47 | 0.14 | 28 | 0.5. | 0.37 | 0.36 | 0.000033 |
| PAR | 0.50 | 1.16 | 1.66 | 1.14 | 0.76 | 0.50 | 0.0 | 1.33 | 0.91 | 0.62 | 0.000147 |
| PSY | 0.20 | 0.60 | 1.00 | 0.68 | 0.52 | 6 70 |).50 | 0.80 | 0.59 | 0.46 | 0.028310 |
| ADD | 0.71 | 1.14 | 1.42 | 1.08 | 0.56 | 57 | 1.00 | 1.42 | 1.06 | 0.62 | 0.176426 |
| GSI | 0.46 | 0.88 | 1.41 | 0.94 | 0.54 | 0 | 0.75 | 1.04 | 0.79 | 0.42 | 0.000610 |

Notes. SOM: Somatization, O-C: Obsessive-Compulsive. NT: Inc. pers. al Sensitivity, DEP: Depression, ANX: Anxiety, HOS: Hostility, PHOB: Phobic Anxiety, PAR: Paranoid Idea on, PSY: 1 yehoticism, ADD: Additional Scale, GSI: Global Severity Index.

The pre-treatment value of the glo an everity much was 6.4 times higher in HP patients than in controls and 5.4 higher in HN patients than 'n contro. After treatment, the same values were respectively 4.3 times higher in HP patients and 3.6 times 1 g. r in HN patients compared to controls.

One month after the beginning of the observation period, the severity of psychopathology in HP patients has grown with the incre of CV alues to Me 0.88 (0.46-1.41), in contrast to HN patients in whom this parameter has graduallered 1 L. r, after 3, 6 and 12 months of observation, the curve of the Global severity index in HP patients had been maintaining the same level, with the value almost 5 times higher than in controls. After 2 mon. of follow-up period the difference in the global severity index between HP and HN patients ha reached 1 5 times.

The . 'a or pined in licate not only the presence of remaining psychopathology, but also its severity which reflect the puninence of the distress experienced by patients of the studied groups after the treatment course during the forma on and stabilization of remission. In such circumstances, the short-term course of therapy improves jut does not stabilize the mental state of DDP, especially of those with HIV, which increases the risk of a gdependence relapse and promotes the chronization of the existing mental disorders.

Ar Lysis of SCL-90-R scales in patients of both groups before and after the treatment course after 1, 3, 6 and 2 months from the beginning of the observation period has shown that the highest values with the maximum severity of psychopathological symptoms on every scale were typical for HP patients.

The highest SCL-90-R scores in both patient groups were those for somatization, depression, anxiety, paranoid ideation and hostility. However, the values of the studied parameters differed among the comparison groups. Somatization score differed 1.2 times between HP and HN patients, 5.2 times between HP patients and healthy people, 4.3 times between HN patients and controls. The level of depression was 8.6 times higher in Hr patients than in controls and 7.7 times higher in HN patients than in healthy individuals. The level of axi v was 10.4 times higher in HP patients than in controls and 8.4 times higher in HN patients than ir controls. Paranoid ideation differed 1.3 times between HP and HN patients and was 6.7 times more prominent in HP patients compared to controls and 5.3 times more prominent in HN patients than in controls.

The severity of psychopathological symptoms in patients of both groups has decline after the treatment course at discharge. The severity of symptoms has reduced after the treatment course; evertheless a average values of the studied parameters in HP and HN patients were still higher than those on the control group. The greatest psychopathology reduction in HP patients after the treatment was observed as a natization (1.7 times), obsessive-compulsive symptoms, anxiety, hostility and depression (1.5 times), to a lesser extent—paranoid ideation and psychoticism (1.3), phobic anxiety and into personal symptoms in HN patients was observed on scales of somatization (1.8 times), hostility and anxiety (1.6 times), phobic anxiety and depression (1.5 times), to a lesser extent—parameter and psychoticism (1.3), interpersonal sensitivity (1.4).

The highest SCL-90-R scores were observed on deprey to anx art and paranoid ideation scales. Despite of the somatization level had reduced 1.7 times in HP patients art 1.8 times in HN patients, its values were still 2.4 times and 2 times higher (respectively) than in control and are up. The level of depression has become 2 times less in patients from both groups at the moment of discharge, of the control group. Anxiety became 1.5 times higher in HP patients and 5.2 times higher in HN patients of patients at discharge, but its value was still 7 times higher in HP patients and 5 times higher in HN patients compared to the controls. It should be noted that the level of paranoid ideation has changed slightly in HP and HN patients after the treatment course. With the total decrease of 1.3 times at discharge its value was still 5 times in 4 times (respectively) higher compared to the healthy individuals. The greatest differences between patients in docintrols were found on the scales of psychoticism and phobic anxiety. The level of psychoticism and phobic anxiety were, respectively, 9 times in HP patients and 6 times in HN patients.

The dynamic assessment. SCL-90-R scores 1, 3, 6 and 12 months after the beginning of the observation period indicate no significant changes of severity of psychopathological symptoms in HP and HN patients. However, a symptoms everity was different compared to its level before the treatment course.

The reduction in symptoms severity (except for somatization and phobic anxiety) is observed in the group of HN ratients and its increase is observed in the group of HP patients after 12 months of the follow-up period. HP patients demonstrated exacerbation of psychopathological symptoms within the first month of the observation period and its dynamics had remained at the same level after 3, 6 and 12 months. The period of formation and ability from of remission in the group of HP patients is associated with the increase of all SCL-90-R scores: pair fold ideation, somatization, anxiety, depression and hostility, to a lesser extent—interpersonal sensitivity, obsessive-compulsive symptoms, psychoticism and phobic anxiety.

The comparative assessment of SCL-90-R scores before the treatment and 1, 3, 6 and 12 months after the treatment has showed the decrease in all scales values in the studied groups of patients. The differences at admission and 12 months after the treatment in the group of HP patients were 1.4 times for somatization scale, 1.5 times for depression scale and 1.3 times for the Global severity index; the differences in the group of Hix patients were 1.8 times for depression and anxiety, 1.7 times for somatization, 1.6 times for hostily and psychoticism, 1.7 times for Global severity index.

The analysis of SCL-90-R values relationship at the moment of discharge and 12 mor as a er the treatment has showed the dynamic differences in symptoms severity in HP and HN patier's. Somatization differed 1.2 times between HP and HN patients at discharge, and 1.4 times after 12 months (1. '1.4); anxiety ratio was 1.2/1.7; depression ratio was 1.1/1.4; paranoid ideation and interpersonal sensitivity. tios were 1.2/1.6; hostility ratio was 1.2/1.6; phobic anxiety ratio—1.3/1.7; psycho ci n r io—1.2/1.7; obsessive-compulsive symptoms ratio—1.2/1.3, Global severity index ratio was 1.2/1.5.

Discussion

Active drug consumption by addicted patients is associated with the vel pmen of mental disorders of varying severity. Failure to comply with the basic principles of therapy take is a account the peculiarities of the substance abuse, the lack of effective methods of treatment and rehability ion and its monitoring results in a low efficiency of the existing system of treatment and medical a description of drug-dependent patients (Rohlina et al., 2002; Stan'ko, Igumnov, & Nestir ovich 2015, umnov & Stan'ko, 2015).

Dynamics of the SCL-90-R scores is quite information which is important to take into account during the treatment process when assessing the risk of a concept eve ts. The comparative assessment of SCL-90-R parameters, revealing the ratio of different pro lems, ma es it possible to differentiate patients into groups according to the severity of psychiatric synptons and disease on the whole, allows to select the priority strategies of therapy (medication, psychonerapy, political interventions) and to optimize the management of patients with opiate dependence that affect the course and prognosis of the disease.

The presence of co-morbid sta. (HIV, n. ntal illness) has limited the efficacy of therapy. Despite the reduction of the SCL-90-R scores all er une treatment course, their values in HP patients are still significantly higher than in HN patients and n. alti v individuals, indicating the failure of the short-term treatment course to normalize the mental stile and the add for development of the algorithm of HP patients management, which includes the long-term, complete ive treatment and rehabilitation programs that are corrected according to the patient's needs.

Early det ction and treatment of co-morbid states (mental and somatic disorders) may reduce the likelihood of r apse and increase the effectiveness of the treatment programs. It is reasonable to use the multi-d nen, mai a tools that comprehensively evaluate the entire spectrum of health and social cons ruences of he drug use to monitor the status of DDP.

The the results of the study allow us to formulate the following conclusions.

sych, athological symptoms, reflecting the level of the distress experienced, are typical for the patients with opized dependence with and without HIV.

V-V-positive patients have statistically significant differences in symptoms severity (p < 0.0005) compared to HIV-negative patients and healthy individuals, indicating the pervasive pattern of the negative effect of opiates and HIV on mental state.

The severity of psychopathology in HP patients is changeable: It is reduced after the treatment course and tends to exacerbate during the formation and stabilization of remission that increases the risk of relapse and indicates the low quality of remission as the result of ineffectiveness of the short-term therapy.

The course of the short-term treatment allows to achieve the clinical improvement at the stage of the remission establishment, but does not stabilize the mental state of the drug-dependent patients with H^T; that indicates the need to develop the long-term, comprehensive treatment and rehabilitation programs be ad on the patient's needs.

References

- Bohan, N. A., Katkov, A. L., & Rossinsky, J. A. (2005). Early prophylactic and rehabilitation of patier with opio. dependence. Pavlodar. (In Russian)
- Derogatis, L. R., Lipman, R. S., & Covi, L. (1973). SCL-90: An outpatient psychiatric rating [31] (Preli inary report). *Psychopharmacology Bulletin*, 9(1), 13-27.
- Derogatis, L. R., Rickels, K., & Rock, A. (1976). The SCL-90 and the MMPI: A step ir the didation of a row self-report scale. Brit. J. Psychiat, 128, 280-289.
- Good clinical practice. (2005). *National Standard of the Russian Federation: State Standard of the R* Standard of the Regulation and Metrology: National Standard of the Regulation in (Electronic source). Retrieved from http://www.medtran.ru/rus/trials/gost/52379-2005.htm (In Russian)
- Iliuk, R. D. (2012). Dynamic assessment of clinical and social characteris of in octine drug users in rehabilitation treatment:

 Manual for doctors. Saint Petersburg. (In Russian)
- Iliuk, R. D., Krupicky, E. M., & Shishkova, A. M. (2012). The program of the confidence of the confide
- Ivanec, N. N., & Vinnikova, M. A. (2011). *Alcoholism: new nua. for doctors*. Moscow: Medical information agency. (In Russian)
- Krupicky, E. M. (2010). The short-term intensive psych therapeutic: intervention in narcology according to the evidence based approach. *Herald of Neurology*, 42(3), 25-27 an Ru. an)
- Magalif, A. J., & Magalif, A. A. (2003). Existe . \(\text{depressio.} \) alcoholism. Affective and schizoaffective disorders: Materials of the conference. Moscow. (In Russian)
- Minko, O. O. (2009). Informativeness and agnostic very e of the results of psychodiagnostic assessment as the markers of opioid dependence. *Ukrainian Herald of Psychology*, 2(59), 35-39. (In Ukrainian)
- Ribakova, K. V. et al. (2012). The sessen into the remission quality in patients with alcohol dependence based on the clinical and social-psychological criteria for daptation to sobriety. *Review of Psychiatry and Medical Psychology, 4*, 63-72. (In Russian)
- Rohlina, M. L. et al. (2002). Principles of pharmacotherapy of opioid narcomany. Narcology, 11, 28-30. (In Russian)
- Stan'ko, E. P., Igumnov S. A., Nestia vich, A. (2015). Dynamics of the life quality parameters in HIV-positive patients with opiate dependence. *Ps. hole search*, 5(3), 205-212.
- Sumarokova, M. (2009). Leidemiological and psychopathological aspects of HIV problem in injecting drug users. *Narcology*, 8(10), 75-80. In Russian
- Tababrin N. V. (201) **ractical recommendations on psychology of posttraumatic stress. Saint Petersburg: "Piter". (In Passian)
- Igum. S. A., & . n'ko, E.P. (2015). Medical and psychosocial aspects of injecting drug use by patients with HIV infection. *App. 1 Psychology and Psychotherapy, 1*, 57-58.