

# Psychology $\bigcirc$ N: 2152-7180 https://www.scirp.org/journal/psych

## **Journal Editorial Board**

ISSN Print: 2152-7180 ISSN Online: 2152-7199 https://www.scirp.org/journal/psych

#### **Editorial Board**

Dr. Ruggero Andrisano-Ruggieri Dr. Margarita Bakracheva **Dr. Yoram Bar-Tal** Prof. Adital Ben-Ari Prof. Sefa Bulut **Dr. Mento Carmela** Prof. Giuliana Galli Carminati Prof. M. Diane Clark Prof. Sonali De Prof. María Leticia Bautista Díaz **Dr. Thomas Vincent Frederick** Dr. Michael Galanakis Dr. Florim Gallopeni Prof. George Kyriacou Georgiou **Dr. Hong Jiao** Dr. Michelle Y. Kibby Prof. Kenneth A. Kiewra Prof. Beth Kurtz-Costes Prof. Giovanni Laviola **Prof. Yang Lee** Dr. Katerina Maniadaki Dr. James M. McKivigan Prof. Tim F. McLaughlin **Dr. Melodee Mograss** Prof. Ora Nakash Dr. Raffaella Nori Dr. Jennifer Kim Plybon Penberthy Dr. Andrea Peru **Dr. Nora Rangel Dr. So-Jung Seo** Prof. Hanaa A. M. Shuwaikh Dr. Luísa Soares Dr. Soyibjon Tajibaev Prof. Tuomo Antero Takala Dr. Kasım Tatlılıoğlu Dr. Svetlana Usca Prof. Massimiliano Versace Prof. Edda Weigand Dr. Patricia Gail Williams Dr. Hui-Ching Wu **Prof. Wengang Yin** Prof. Samah Khaled Zahran

University of Salerno, Italy Sofia University St. Kliment Ohridski, Bulgaria Tel-Aviv University, Israel University of Haifa, Israel Ibn Haldun University, Turkey University of Messina, Italy International Institute for Psychoanalysis Charles Baudouin, Switzerland Lamar University, USA University of Calcutta, India National Autonomous University of Mexico, Mexico California Baptist University, USA Hellenic Open University, Greece Heimerer College, Albania University of Alberta, Canada University of Maryland, USA Southern Illinois University, USA University of Nebraska-Lincoln, USA University of North Carolina, USA Italian National Institute of Health, Italy Gyeongsang National University, South Korea Technological Educational Institution, Greece Touro University Nevada, USA Gonzaga University, USA McGill University, Canada Smith College, Israel University of Bologna, Italy University of Virginia School of Medicine, USA University of Firenze, Italy University of Guadalajara, Mexico Kyung Hee University, South Korea Fayoum University, Egypt University of Madeira, Portugal Uzbek State University, Uzbekistan University of Jyväskylä, Finland Bingol University, Turkey Rezekne Academy of Technologies, Latvia Boston University, USA University of Münster, Germany University of Louisville, USA National Taiwan University, Chinese Taipei Chinese Academy of Sciences, China Women College, Ain Shams University, Egypt

.....



Volume 13

Number 11

October 2022

### **Table of Contents**

Autism Multimodal Activism. Negotiating a Pallet of Identities on the YouTube Social Media	
K. Georgiou, D. Winter, S. Davies, A. Katsiana	1553
Dialectical Behavior Group Therapy for Adolescents and Parents: Analysis of Answer Entropy	
A. Fernandez-Rivas, E. Sesma-Pardo, I. Kerexeta, A. Diaz-Cosgaya, E. Vivanco, F. Carminati, M. A. G. Torres, C. Fouassier, F. Martin, J. Demongeot, G. G. Carminati	, 1573
Children's Emotional Well-Being, Difficulties, and Aggressive Behaviour during t First COVID-19 Pandemic Lockdown in German-Speaking Switzerland	he
S. Caviezel Schmitz, P. Krüger	
Impaired Recognition of Emotional Facial Expressions in Adults with Attention Deficit/Hyperactivity Disorder: A Review of Event Related Potential (ERP) Studie	?S
O. Dan, A. Cohen	
Personality, Psychological Mediators and Adherence to ART: A Correlational Clinical Study	
G. MR. Welter, A. C. P. de Oliveira	1641

#### Psychology (PSYCH) Journal Information

#### SUBSCRIPTIONS

The *Psychology* (Online at Scientific Research Publishing, <u>https://www.scirp.org/</u>) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates: Print: \$89 per issue. To subscribe, please contact Journals Subscriptions Department, E-mail: <u>sub@scirp.org</u>

#### SERVICES

Advertisements Advertisement Sales Department, E-mail: <u>service@scirp.org</u>

**Reprints (minimum quantity 100 copies)** Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail: <u>sub@scirp.org</u>

#### COPYRIGHT

#### Copyright and reuse rights for the front matter of the journal:

Copyright © 2022 by Scientific Research Publishing Inc. This work is licensed under the Creative Commons Attribution International License (CC BY). <u>http://creativecommons.org/licenses/by/4.0/</u>

#### Copyright for individual papers of the journal:

Copyright © 2022 by author(s) and Scientific Research Publishing Inc.

#### Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

#### Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

#### **PRODUCTION INFORMATION**

For manuscripts that have been accepted for publication, please contact: E-mail: <u>psych@scirp.org</u>

HumanGuide Factors	Average	DP	Min.	Max.
Sensitivity	5.13	2.13	0	9
Power	1.73	2.97	-4	7
Quality	4.06	2.64	-2	9
Exposure	-0.97	3.83	-8	7
Structure	2.94	3.15	-4	9
Imagination	1.71	3.13	-5	8
Stability	1.92	3.1	-4	9
Contacts	2.63	2.99	-5	9

**Table 1.** Participants' mean scores on the eight personality dimensions of the Human-Guide test, regardless of gender (n = 63).

which expresses the need to be in evidence and to meet other people's expectations, had the lowest mean score and the highest standard deviation, indicating that this factor presents high variability among participants.

The differences observed between the mean scores of female and male participants are not significant, except for the *imagination* factor which showed a significant difference in relation to sex [t(61) = -2.784 < 0.07], with males showing a mean score (M = 2.45) significantly higher than that of females (M = 0.24). The mean *imagination* factor scores of MSM participants (M = 2.93; SD = 2.782) was higher than that of MSW (M = 1.43; SD = 2.782), which in turn was higher than WSM (M = 0.24; SD = 2.869), presenting a statistically significant difference (p < 0.01). A single positive correlation was observed between the *quality* factor, which expresses sense of responsibility and care for life in general, and CD4+ T cells (r = 0.297; p < 0.05).

Significant positive correlations were observed at significance level  $\leq 0.01$  between the *contacts* factor, which expresses sociability and the need to communicate with people, the total score on the PSS-HIV and all the dimensions that make up this scale (**Table 2**).

Only one significant negative correlation at significance level  $\leq 0.05$  was observed between the HumanGuide *exposure* factor, which expresses the need to be in the limelight and gain social recognition, and the dimension *unsupportive relationships* in the SEA-ART (**Table 3**).

#### 4. Discussion

Based on the data obtained from the participants' medical records, we found that 87% had undetectable viral load, and 30% of women had a viral load above the desirable level, while only 2% of men had this value. This result suggests that men are more aware of the importance of following treatment, and show a greater adherence to it.

PPS-HIV		HumanGuide							
		SENS	POW	QUA	EXPO	STR	IMAG	STA	CONT
Total score	r	0.218	-0.05	0.058	0.126	-0.276*	-0.019	-0.284*	0.393**
	р	0.086	0.695	0.652	0.327	0.029	0.88	0.024	0.001
Fataam	r	0.171	-0.062	0.034	0.081	-0.258*	-0.012	-0.206	0.323**
Esteem	р	0.181	0.627	0.788	0.527	0.041	0.928	0.105	0.01
Salf davidonment	r	0.159	-0.033	-0.008	0.155	-0.233	0.059	-0.290*	0.342**
Self-development	р	0.213	0.80	0.949	0.225	0.066	0.647	0.021	0.006
Belonging	r	0.277*	-0.041	0.124	0.06	-0.219	-0.139	-0.19	0.328*
	р	0.028	0.748	0.332	0.64	0.084	0.279	0.135	0.009

**Table 2.** Pearson's correlation matrix between the dimensions of the HumanGuide test and the dimensions of the perceived social support scale in HIV (n = 63).

Abbreviations corresponding to the HumanGuide dimensions: SENS: Sensitivity; POW: Power; QUAL: Quality; EXPO: Exposure; STR: Structure; IMAG: Imagination; STA: Stability; CONT: Contacts. \*p < 0.05; \*\*p < 0.01.

Self-efficacy expectation scale for following antiretroviral t	Exposure	
Paris and the investor of a state of a state of the state	r	-0.140
Environmental circumstances and medication regimen	р	0.281
	r	-0.302*
Unsupportive relationships	р	0.017
	r	-0.144
Negative emotional experiences and physical condition	р	0.268

**Table 3.** Spearman's Correlation between the SEA-ART Dimensions and the exposure factor of the HumanGuide test (n = 63).

\*Correlation at 0.05 significance level (two-tailed).

The participants' years of living with HIV very close to the years of treatment, indicate that AIDS has become a chronic disease for them (Mayer et al., 2016; Teeraananchai et al., 2017; World Health Organization, 2015). Since more than 50% of the participants have been living with the virus for more than 15 years, this data is indicative that ART is a determinant of the participants' longevity. Changes in treatment regimen were not related to years of seropositivity, but the introduction of the "3-in-1" cocktail proved to be able to predict the number of drug changes with a large effect size. The decrease in the frequency of therapeutic regimen changes coincided with the strategy of simplifying ART from 2002, when there was a significant reduction and stabilization of the number of daily doses, aimed at improving adherence and reduction of the occurrence of adverse events, while preserving virological suppression (Brites, 2016; Moyle, 2002).

#### 4.1. Perceived Social Support and Adherence

The correlations observed between the prognostic indicative scores on the HIV social support perception scale with the two biological markers of adherence were in accordance with the authors' indication (Cortes et al., 2014). Individuals with positive perceived social support tended to be more adherent to treatment, as cited in several prior studies (Berghoff et al., 2018; DiMatteo, 2004; Langebeek et al., 2014; Uchino et al., 1996). Perceived support constitutes an important mediating mechanism between adherence and treatment efficacy, to the extent that subjective conditions have an objective impact on health status. The results obtained with the Portuguese version of the scale of perceived social support in HIV, new in Brazil, were compatible with those presented by the authors (Cortes et al., 2014), pointing to its usefulness in predicting treatment adherence. Its reduced format with only 12 items allows its application to be fast and well-accepted by patients.

#### 4.2. Self-efficacy Expectations and Adherence

The correlations observed between expected self-efficacy and biological markers of adherence indicated that when faced with negative experiences and emotions, patients tend to be less adherent. Emotional states, such as irritability and depressive states, can contribute to an individual's discontinuation of medication. Unsupportive relationships can also compromise self-efficacy expectation due to insecurity in social contacts and possible fear of being discriminated against, as highlighted by several authors (Langebeek et al., 2014; Santos et al., 2014; Shubber et al., 2016; Sweeney & Vanable, 2016; Swendeman et al., 2009; Turan et al., 2019). On the other hand, individuals with good expectation of self-efficacy to follow treatment tend to take the medication even when facing negative experiences and feelings, encountering unfavorable environmental circumstances, and/or finding it difficult to ingest the medication. When there is a fear that one's HIV-positive status will be revealed, and when the individual is away from home at the time of taking their medication, there is a risk of decreased self-efficacy expectation, with an impact on adherence. Considering that the self-efficacy scores of adherent participants were higher than the scores of non-adherent participants, these results coincided with those obtained in previous studies (Drachler et al., 2016), indicating that the strength of expectation varies according to the anticipated risk by the patient of not taking the medication, depending on the situation.

#### 4.3. Personality Differences among Participants

Regarding the personality characteristics of the participants, there were no significant differences in the mean scores of the HumanGuide factors between the genders, except for the *imagination* factor, which was much higher in male participants compared to females. Since most of the male participants have sex with men (MSM), when we analyzed the differences in the score of this factor considering the sexual orientation of the participants, we found that MSM differed significantly from women in this aspect. The need for expansion, to be everything, underlying the *imagination* factor (Welter, 2011; Welter & Capitão, 2007), may motivate the individual to wish to go beyond the social boundaries associated with gender to seek new experiences, with curiosity and an attraction to the unknown. This is an interesting and unexpected finding, yet in line with the Szondian theoretical assumptions that underpin the HumanGuide.

#### 4.4. Personality and Psychological Adherence Mediators

Regarding the direct influence of personality traits on adherence, it was found that high scores on the HumanGuide *quality* factor, which expresses the sense of responsibility and care for life in general (Welter, 2011; Welter & Capitão, 2007), can positively influence ART adherence behavior, reflected in increased CD4+ T cell counts. This result suggests that caring for life in general, and for one's own life is associated with self-care, which in turn favors adherence to treatment for chronic diseases, as cited by some authors and bulletins (Brazilian Ministry of Health, 2018; Camargo-Borges & Japur, 2008; Swendeman et al., 2009; Webber et al., 2013; World Health Organization, 2015).

The results obtained through the significant correlations found between the HumanGuide and the PSS-HIV indicate that perceived social support can be influenced by personality. Individuals with a greater need to be with people and communicate intensely with them (accentuation of the *contacts* factor), tend to build a network of relationships which they can turn to in times of need. This behavior contributes to a positive perception of social support, especially in relation to feelings of esteem, as pointed out by Allemand et al. (2015) and Pierce et al. (1997). The need to establish close contacts with people, which allow to satisfy affective needs (accentuation of the sensitivity factor), favors the positive perception of social support associated with the feeling of belonging. Individuals who are more flexible and open to the new (depletion of the structure and stabil*ity* factors), presented a better perceived social support, probably because they feel less self-sufficient and are less critical and attached to their own routine and the way they do things. On the other hand, individuals with a need for control and a tendency for rigidity (accentuated structure and stability factors), presented a negative perceived social support, possibly due to their critical sense and desire for things to be their way. This result is in line with the observations of Uchino et al. (1996) who stated that certain personality traits influence social behavior, and Allemand et al. (2015) who stated that there is a reciprocal relationship between personality traits and social support, since the individual may be able to actively build a supportive social network (Pierce et al., 1997). Adherence behavior, in turn, may also influence the provision of support by individuals, as pointed out by DiMatteo (2004), as they tend to devote more attention and care to those who match the care and attention received through adherence and self-care. In addition, perceived social support appears to be associated with motivational selectivity (VandenBos, 2009) and may be influenced by psychological motives (Szondi, 2013).

Participants' personality differences in relation to self-efficacy expectation to follow ART were most evident in relation to the polar factors *stability* and *contacts* and *sensitivity* and *power* in the HumanGuide (Welter, 2011). The need to retain and conserve, as expressed through the tendency toward conservatism, cultivation of habits and attachment to routine, seem to contribute positively to the feeling of being able to follow treatment in adverse environmental circumstances, such as being on the street and facing changes in the rhythm of life, such as on weekends and holidays, or when experiencing negative emotional states, such as boredom and melancholy. Aspects related to the need to meet people and communicate with them may represent an obstacle to follow the treatment in situations of greater social interaction, such as being on the street and away from home, which favor dispersion and forgetfulness. Impatience may favor non-adherence to treatment because of the resistance to having to interrupt one's daily routine to take the medication several times a day.

The negative correlation between the dimension *non-supportive relationships*, which covers situations that pose a risk of not taking the medication because they are associated with the AIDS stigma (discrimination, insecurity in front of people you do not know, concealment of the HIV-positive status, questioning the importance of treatment and instability in the doctor-patient bond) and the HumanGuide factor *exposure*, suggests that the feeling of shame and the need to convey a more positive self-image can decrease the self-efficacy expectation. This result is consistent with the surveyed literature (Sweeney & Vanable, 2016; Turan et al., 2019) and the theoretical assumptions of the HumanGuide (Szondi, 1972; Welter, 2011).

#### **5.** Conclusion

Considering that adherence to ART determines treatment efficacy and contributes to the prevention of comorbidities, understanding the factors that influence it, including psychological mediators, is especially important. The results of this study suggest that the psychological mediators of adherence to treatment, perception of social support and expectation of self-efficacy, have an impact on adherence to ART. Furthermore, personality characteristics such as sociability, optimism, willingness to deal with change, flexibility, and need for acceptance and recognition may influence the psychological mediators. Personality traits related to sense of responsibility and self-care can also have an impact on the adherence to ART.

The relative scarcity of instruments to evaluate personality in the health field increases the possibilities of psychologists' work in this context, seeking to understand the motivational determinants of adherence to ART—a fundamental condition for the quality of life and longevity of patients with HIV. Since the sample of this study is small and of convenience, and the influence of personality was addressed only on certain psychological aspects associated with ART adherence, the results obtained here cannot be generalized. Moreover, the crosssectional nature of this study precludes any causal inferences from the results. However, it is reasonable to argue that personality is an aspect to be considered when addressing adherence to ART.

#### Acknowledgements

The authors thank Dr. Claudio Garcia Capitão for his critical revision of this paper.

#### **Conflicts of Interest**

The authors declare no conflicts of interest regarding the publication of this paper.

#### References

- Allemand, M., Schaffhuser, K., & Martin, M. (2015). Long-Term Correlated Change between Personality Traits and Perceived Social Support in Middle Adulthood. *Personality and Social Psychology Bulletin*, 41, 420-432. <u>https://doi.org/10.1177/0146167215569492</u>
- Aronson, J. K. (2007). Compliance, Concordance, Adherence. British Journal of Clinical Pharmacology, 63, 383-384. <u>https://doi.org/10.1111/j.1365-2125.2007.02893.x</u>
- Bandura, A. (1977). Self-Efficacy: Toward a Unifying Theory of Behavioral Change. Psychological Review, 84, 191-125. <u>https://doi.org/10.1037/0033-295X.84.2.191</u>
- Bandura, A. (1990). Perceived Self-Efficacy in the Exercise of Control over AIDS Infection. *Evaluation and Program Planning*, 13, 9-17. https://doi.org/10.1016/0149-7189(90)90004-G
- Bandura, A. (2004). Health Promotion by Social Cognitive Means. *Health Education & Behavior, 31*, 143-164. <u>https://doi.org/10.1177/1090198104263660</u>
- Bartram, D., Berberoglu, G., Grégoire, J., Hambleton, R., Muniz, J., & van de Vijver, F. (2018). ITC Guidelines for Translating and Adapting Tests (Second Edition). *International Journal of Testing*, 18, 101-134. <u>https://doi.org/10.1080/15305058.2017.1398166</u>
- Berghoff, C. R., Gratz, K. L., Portz, K. J., Pinkston, M., Naifeh, J. A., Evans, S. D., Konkle-Parker, D. J., & Tull, M. T. (2018). The Role of Emotional Avoidance, the Patient-Provider Relationship, and Other Social Support in ART Adherence for HIV+ Individuals. *AIDS and Behavior, 22*, 929-938. https://doi.org/10.1007/s10461-017-1745-2
- Bonolo, P. D. F., Gomes, R. R. D. M., & Guimarães, M. D. C. (2007). Adherence to Antiretroviral Therapy (HIV/AIDS): Associated Factors and Measures of Adherence. *Epidemiology and Health Services, 16*, 267-278.
- Brazilian Ministry of Health (2015). Boletim Epidemiológico HIV/Aids-2015. 1-5.
- Brazilian Ministry of Health (2018). *Protocolo Clínico e Diretrizes Terapêuticas para Manejo da Infecção pelo HIV Em Adultos.* <u>https://www.gov.br/aids/pt-br/centrais-de-conteudo/pcdts/2013/hiv-aids/pcdt\_manejo\_adulto\_12\_2018\_web.pdf/view</u>
- Brites, C. (2016). Switching Strategies in Current Antiretroviral Therapy. *The Brazilian Journal of Infectious Diseases, 2,* 24-32.

http://www.bjid.org.br/en-estrategias-troca-switch-na-terapia-articulo-X217751171652 5069

- Camargo-Borges, C., & Japur, M. (2008). On Treatment (Non)Adherence: Expanding Meanings of Self-Care. *Texto e Contexto Enfermagem, 17,* 64-71. https://doi.org/10.1590/S0104-07072008000100007
- Camargo, L. A. (2012). Association between Expectation of Self-Efficacy, Family Support, Indications of Mental Disorders and Adherence to Antiretroviral Treatment in Patients with HIV and AIDS. Unpublished Master's Thesis, Coordenadoria de Controle de Doenças da Secretaria de Estado da Saúde de São Paulo.
- Camargo, L. A., Capitão, C. G., & Filipe, E. M. V. (2014). Mental Health, Family Support, and Treatment Adherence: Associations in the HIV/AIDS context. *Psycho-USF*, 19, 221-232. <u>https://doi.org/10.1590/1413-82712014019002013</u>
- Carvalho, P. P., Barroso, S. M., Coelho, H. C., & Penaforte, F. (2019). Factors Associated with Antiretroviral Therapy Adherence in Adults: An Integrative Review of Literature. *Science & Collective Health, 24*, 2543-2555. https://doi.org/10.1590/1413-81232018247.22312017
- Chesney, M. (2003). Adherence to HAART Regimens. *AIDS Patient Care and STDs, 17,* 169-177. <u>https://doi.org/10.1089/108729103321619773</u>
- Cohen, M. S., Chen, Y. Q., McCauley, M., Gamble, T., Hosseinipour, M. C., Kumarasamy, N. et al. (2016). Antiretroviral Therapy for the Prevention of HIV-1 Transmission. *New England Journal of Medicine*, 375, 830-839. <u>https://doi.org/10.1056/NEJMoa1600693</u>
- Conn, V. S., Ruppar, T. M., Enriquez, M., & Cooper, P. (2016). Medication Adherence Interventions that Target Subjects with Adherence Problems: Systematic Review and Meta-Analysis. *Research in Social & Administrative Pharmacy (RSAP), 12*, 218-246. <u>https://doi.org/10.1016/j.sapharm.2015.06.001</u>
- Cortes, A., Hunt, N., & McHale, S. (2014). Development of the Scale of Perceived Social Support in HIV (PSS-HIV). *AIDS and Behavior*, *18*, 2274-2284. https://doi.org/10.1007/s10461-014-0902-0
- Costa, L. M. C. B. V., Casseb, J. S. do R., Gascon, M. R. P., & Fonseca, L. A. M. (2018). Personality Characteristics and Treatment Adherence in young HIV patients. *Journal of SBPH*, 21, 6-35. <u>http://pepsic.bvsalud.org/scielo.php?script=sci\_arttext&pid=S1516-0858201800010000</u>
- da Silva, S. R., & de Oliveira, R. A. (2017). *Ethics and HIV/AIDS—An Epidemic That Sustains Itself.* Regional Council of Medicine of the State of São Paulo.
- de Carvalho Leite, J. C., de Lourdes Drachler, M., Centeno, M. O., Pinheiro, C. A. T., & da Silveira, V. L. (2002). Development of a Self-Efficacy Scale for Adherence to Antiretroviral Treatment. *Psicologia: Reflexão e Crítica, 15,* 121-133.
- de Freitas, G. M., Lavezzo, F., Domingos, N. A. M., Seidl, E. M. F., & de Oliveira Santos Miyazaki, M. C. (2021). Psychosocial Variables and Adherence to Antiretroviral Treatment for HIV/AIDS. *Revista Psicologia e Saúde*, *12*, 191-206.
- DiMatteo, M. R. (2004). Social Support and Patient Adherence to medical Treatment: A Meta-Analysis. *Health psychology, 23*, 207-218. https://doi.org/10.1037/0278-6133.23.2.207
- Drachler, M. D. L., Drachler, C. W., Teixeira, L. B., & de Carvalho Leite, J. C. (2016). The Scale of Self-Efficacy Expectations of Adherence to Antiretroviral Treatment: A Tool for Identifying Risk for Non-Adherence to Treatment for HIV. *PLOS ONE*, 11, e0147443. <u>https://doi.org/10.1371/journal.pone.0147443</u>
- García, P. R., & Côté, J. K. (2003). Factors Affecting Adherence to Antiretroviral Therapy in People Living with HIV/AIDS. *Journal of the Association of Nurses in AIDS Care*, 14, 37-45. <u>https://doi.org/10.1177/1055329003252424</u>

2&lng=pt&tlng=pt

- Guimarães, M. D. C., Carneiro, M., de Abreu, D. M. X., & França, E. B. (2017). HIV/AIDS Mortality in Brazil, 2000-2015: Reasons for Concern? *Brazilian Journal of Epidemiology*, 20, 182-190. <u>https://doi.org/10.1590/1980-5497201700050015</u>
- Haberer, J. E., Sabin, L., Amico, K. R., Orrell, C., Galárraga, O., Tsai, A. C. et al. (2017). Improving Antiretroviral Therapy Adherence in Resource-Limited Settings at Scale: A Discussion of Interventions and Recommendations. *Journal of the International AIDS Society, 20*, Article ID: 21371. https://doi.org/10.7448/IAS.20.1.21371
- Holtzman, C. W., Shea, J. A., Glanz, K., Jacobs, L. M., Gross, R., Hines, J., Mounzer, K., Samuel, R., Metlay, J. P., & Yehia, B. R. (2015). Mapping Patient-Identified Barriers and Facilitators to Retention in HIV Care and Antiretroviral Therapy Adherence to Andersen's Behavioral Model. *AIDS Care, 27*, 817-828. <u>https://doi.org/10.1080/09540121.2015.1009362</u>
- Jansen, R. (2017, December 16). *Distribution of Anti-HIV Drug Begins This Month*. O Estado de São Paulo. <u>https://brasil.estadao.com.br/noticias/geral,distribuicao-de-droga-anti-hiv-comeca-este</u> <u>-mes,70002122736</u>
- Kanters, S., Park, J. J. H., Chan, K., Socias, M. E., Ford, N., Forrest, J. I., Thorlund, K., Nachega, J. B., & Mills, E. J. (2017). Interventions to Improve Adherence to Antiretroviral Therapy: A Systematic Review and Network Meta-Analysis. *The Lancet HIV*, *4*, e31-e40. <u>https://doi.org/10.1016/S2352-3018(16)30206-5</u>
- Langebeek, N., Gisolf, E. H., Reiss, P., Vervoort, S. C., Hafsteinsdóttir, T. B., Richter, C., Sprangers, M., & Nieuwkerk, P. T. (2014). Predictors and Correlates of Adherence to Combination Antiretroviral Therapy (ART) for Chronic HIV Infection: A Meta-Analysis. *BMC Medicine*, *12*, Article No. 142. <u>https://doi.org/10.1186/s12916-014-0142-1</u>
- Ma, Q., Tso, L. S., Rich, Z. C., Hall, B. J., Beanland, R., Li, H., Lackey, M., Hu, F., Cai, W., Doherty, M., & Tucker, J. D. (2016). Barriers and Facilitators of Interventions for Improving Antiretroviral Therapy Adherence: A Systematic Review of Global Qualitative Evidence. *Journal of the International AIDS Society*, *19*, Article ID: 21166. <u>https://doi.org/10.7448/IAS.19.1.21166</u>
- Mayer, K. H., Shisana, O., & Beyrer, C. (2016). AIDS 2016: From Aspiration to Implementation. *The Lancet, 387*, 2484-2485. https://doi.org/10.1016/S0140-6736(16)30621-3
- Mbuagbaw, L., Sivaramalingam, B., Navarro, T., Hobson, N., Keepanasseril, A., Wilczynski, N. J., Haynes, R. B., & Patient Adherence Review (PAR) Team. (2015). Interventions for Enhancing Adherence to Antiretroviral Therapy (ART): A Systematic Review of High Quality Studies. *AIDS Patient Care and STDs*, 29, 248-266. <u>https://doi.org/10.1089/apc.2014.0308</u>
- Mills, E. J., Nachega, J. B., Bangsberg, D. R., Singh, S., Rachlis, B., Wu, P., Wilson, K., Buchan, I., Gill, C. J., & Cooper, C. (2006). Adherence to HAART: A Systematic Review of Developed and Developing Nation Patient-Reported Barriers and Facilitators. *PLOS Medicine*, 3, e438. <u>https://doi.org/10.1371/journal.pmed.0030438</u>
- Moyle, G. (2002). The Dawning of the Once-a-Day Era. *Current Opinion in Infectious Diseases*, *5*, 1. <u>https://doi.org/10.1097/00001432-200202000-00001</u>
- Mueller, S., Wilke, T., Gorasso, V., Erhart, M., & Kittner, J. M. (2018). Adaption and Validation of the Adherence Barriers Questionnaire for HIV Patients on Antiretroviral Therapy (ABQ-HIV). *BMC Infectious Diseases, 18*, Article No. 599. https://doi.org/10.1186/s12879-018-3530-x
- Munro, S., Lewin, S., Swart, T., & Volmink, J. (2007). A Review of Health Behavior Theories: How Useful Are These for Developing Interventions to Promote Long-Term

Medication Adherence for TB and HIV/AIDS? *BMC Public Health, 7*, Article No. 104. https://doi.org/10.1186/1471-2458-7-104

- Nachega, J. B., Adetokunboh, O., Uthman, O. A., Knowlton, A. W., Altice, F. L., Schechter, M., Galárraga, O., Geng, E., Peltzer, K., Chang, L. W., van Cutsem, G., Jaffar, S. S., Ford, N., Mellins, C. A., Remien, R. H., & Mills, E. J. (2016). Community-Based Interventions to Improve and Sustain Antiretroviral Therapy Adherence, Retention in HIV Care and Clinical Outcomes in Low- and Middle-Income Countries for Achieving the UNAIDS 90-90-90 Targets. *Current HIV/AIDS Reports, 13,* 241-255. https://doi.org/10.1007/s11904-016-0325-9
- Peng, S. (2020). Maslow's Hierarchy of Needs Theory Combined with Subjective Well-Being to Explore the Influencing factors and Promotion Strategies. *Research & Development*, 1, 19-24.
- Penn, A. W., Azman, H., Horvath, H., Taylor, K. D., Hickey, M. D., Rajan, J., Negussie, E. K., Doherty, M., & Rutherford, G. W. (2018). Supportive Interventions to Improve Retention on ART in People with HIV in Low- and Middle-Income Countries: A Systematic Review. *PLOS ONE*, *13*, e0208814. https://doi.org/10.1371/journal.pone.0208814
- Pierce, G. R., Lakey, B., Sarason, I. G., Sarason, B. R., & Joseph, H. J. (1997). Personality and Social Support Processes. In G. R. Pierce, B. Lakey, I. G. Sarason, & B. R. Sarason (Eds.), *Sourcebook of Social Support and Personality* (pp. 3-18). The Springer. <u>https://doi.org/10.1007/978-1-4899-1843-7\_1</u>
- Pinheiro, C. A. T., de-Carvalho-Leite, J. C., Drachler, M. L., & Silveira, V. L. (2002). Factors Associated with Adherence to Antiretroviral Therapy in HIV/AIDS Patients: A Cross-Sectional Study in Southern Brazil. *Brazilian Journal of Medical and Biological Research*, 35, 1173-1181. <u>https://doi.org/10.1590/S0100-879X2002001000010</u>
- Polejack, L., & Seidl, E. M. F. (2010). Monitoring and Evaluation of Adherence to Antiretroviral Treatment for HIV/AIDS: Challenges and Possibilities. *Science & Collective Health*, 15, 1201-1208. <u>https://doi.org/10.1590/S1413-81232010000700029</u>
- Ridgeway, K., Dulli, L. S., Murray, K. R., Silverstein, H., Dal Santo, L., Olsen, P., Darrow de Mora, D., & McCarraher, D. R. (2018). Interventions to Improve Antiretroviral Therapy Adherence among Adolescents in Low- and Middle-Income Countries: A Systematic Review of the Literature. *PLOS ONE*, *13*, e0189770. https://doi.org/10.1371/journal.pone.0189770
- Santos, É. E. P. dos, de Mello Padoin, S. M., Spiegelberg Zuge, S., Vargas Schwarzbold, A., de Souza Magnago, T. S. B., & Cardoso de Paula, C. (2014). Expectations of Self-Efficacy for the Aids Treatment of Adults in a University Hospital. *Revista de Enfermagem UFPE, 8*, 2797-2804.

https://periodicos.ufpe.br/revistas/revistaenfermagem/article/viewFile/9986/10335

- Seidl, E. M. F., Melchíades, A., Farias, V., & Brito, A. (2007). People Living with HIV/ AIDS: Variables Associated with Adherence to Antiretroviral Treatment. *Cadernos de Saúde Pública*, 23, 2305-2316. <u>https://doi.org/10.1590/S0102-311X2007001000006</u>
- Shubber, Z., Mills, E. J., Nachega, J. B., Vreeman, R., Freitas, M., Bock, P., Nsanzimana, S., Penazzato, M., Appolo, T., Doherty, M., & Ford, N. (2016). Patient-Reported Barriers to Adherence to Antiretroviral Therapy: A Systematic Review and Meta-Analysis. *PLOS Medicine*, 13, e1002183. <u>https://doi.org/10.1371/journal.pmed.1002183</u>
- Soto, C. J., & Jackson, J. J. (2013). Five-Factor Model of Personality. Journal of Research in Personality, 42, 1285-1302. <u>https://doi.org/10.1093/obo/9780199828340-0120</u>

Straub, R. O. (2014). Health Psychology: A Biopsychosocial Approach. Worth Publishers.

Sweeney, S. M., & Vanable, P.A. (2016). The Association of HIV-Related Stigma to HIV

Medication Adherence: A Systematic Review and Synthesis of the Literature. *AIDS Behavior, 20,* 29-50. <u>https://doi.org/10.1007/s10461-015-1164-1</u>

- Swendeman, D., Ingram, B. L., & Rotheram-Borus, M. J. (2009). Common Elements in Self-Management of HIV and Other Chronic Illnesses: An Integrative Framework. *AIDS Care*, 21, 1321-1334. <u>https://doi.org/10.1080/09540120902803158</u>
- Szondi, L. (1972). *Lehrbuch der experimentelle Triebdiagnostik Textband* (3rd ed., Vol. 1). Hans Huber.
- Szondi, L. (2013). *Introduction to the Psychology of Fate Followed by Marriage Analysis.* Is Accomplishments.
- Teeraananchai, S., Kerr, S. J., Amin, J., Ruxrungtham, K., & Law, M. G. (2017). Life Expectancy of HIV-Positive People after Starting Combination Antiretroviral Therapy: A Meta-Analysis. *HIV Medicine*, 18, 256-266. <u>https://doi.org/10.1111/hiv.12421</u>
- Turan, B., Crockett, K. B., Buyukcan-Tetik, A., Kempf, M. C., Konkle-Parker, D., Wilson, T. E., Tien, P. C., Wingood, G., Neilands, T. B., Johnson, M. O., Weiser, S. D., & Turan, J. M. (2019). Buffering Internalization of HIV Stigma: Implications for Treatment Adherence and Depression. *Journal of Acquired Immune Deficiency Syndromes, 80*, 284-291. <u>https://doi.org/10.1097/QAI.000000000001915</u>
- Uchino, B. N., Cacioppo, J. T., & Kiecolt-Glaser, J. K. (1996). The Relationship between Social Support and Physiological Processes: A Review with Emphasis on Underlying Mechanisms and Implications for Health. *Psychological Bulletin*, 119, 488-531. <u>https://doi.org/10.1037/0033-2909.119.3.488</u>
- VandenBos, G. R. (2009). APA Dictionary of Psychology. American Psychological Association. <u>https://doi.org/10.2307/j.ctv1chs9c9</u>
- Waldvogel, B. C., Tayra, A., Domingues, C. S. B, Morias, L. C. C., Tancredi, M. V., La Porte Teixeira, M., & Polon, M. C. (2015). Living with AIDS in the State of São Paulo: Information and Challenges for Public Health Policy. *Bepa - Boletim Epidemiológico Paulista, 12,* 17-33.

https://www.seade.gov.br/wp-content/uploads/2015/05/Primeira Analise n24.pdf

Webber, D., Guo, Z., & Mann, S. (2013). Self-Care in Health: We Can Define It, but Should We Also Measure It? *SelfCare Journal, 4,* 101-106.

 $\underline{https://selfcarejournal.com/article/self-care-in-health-we-can-define-it-but-should-we-also-measure-it/}$ 

- Welter, G. M. R, & Capitão, C. G. (2007). HumanGuide: Evidence of Validity of the Brazilian Version. *Psic: Revista da Vetor Editora, 8,* 139-150. <u>http://pepsic.bvsalud.org/scielo.php?script=sci\_arttext&pid=S1676-7314200700020000</u> 4&lng=pt&tlng=pt
- Welter, G. M. R. (2011). *HumanGuide Perfil Pessoal* (Vol. 1). Vetor Editora Psicopedagógica.
- World Health Organization (2015, September). *Guidelines on When to Start Antiretroviral Therapy and on Pre-Exposure Prophylaxis for HIV* (78 p). World Health Organization.

http://apps.who.int/iris/bitstream/handle/10665/186275/9789241509565\_eng.pdf?sequence=1

Wright, M. T. (2000). The Old Problem of Adherence: Research on Treatment Adherence and Its Relevance for HIV/AIDS. *AIDS Care, 12,* 703-710. <u>https://doi.org/10.1080/09540120020014237</u>





# Psychology (PSYCH)

ISSN Print: 2152-7180 ISSN Online: 2152-7199 https://www.scirp.org/journal/psych

PSYCH is an international refereed journal dedicated to the latest advancements in Psychology. The goal of this journal is to keep a record of the state-of-the-art research and promote the research work in these fast moving areas.

#### Subject Coverage

This journal invites original research and review papers that address the following issues in Psychology. Topics of interest include, but are not limited to:

Anomalistic Psychology
Behavioral Psychology
Biological Basis of Behavior
Clinical Psychology
Cognitive Psychology
Counseling Psychology
Cultural Psychology
Economic Psychology
Educational Psychology
Engineering Psychology
Environmental Psychology
Ethics in Psychology
Family Psychology and Couples Psychology
Forensic Psychology
Gerontology
Health Psychology
Intelligence Psychology
Managerial and Leadership Psychology

Military Psychology National Psychology Neuropsychology Political Psychology **Professional Practice** Psychological Assessment and Evaluation Psychology of Art Psychology of Religion Psychotherapy Safety Psychology School Psychology Scientific Psychology Social Psychology Sport Psychology Traffic Psychology Work, Industrial and Organizational Psychology Others

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the **PSYCH**.

#### **Notes for Intending Authors**

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail https://www.scirp.org/journal/psych

#### What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

#### What is Open Access?

Art and Design Review

Advances in

dvances in Biological bemistry Entomolog

Applied Mathematics

Engineering

nii ili a

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



Soft

Website: https://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org