Journal Of Harmonized Research (JOHR)

Journal Of Harmonized Research in Medical & Health Sci. 3(1), 2016, 44-50



ISSN 2395 - 6046

Systematic Review

TREATMENT OF CANNABIS RELATED PSYCHOSIS WITH ELECTROCONVULSIVE THERAPY (ECT): A RAPID APPROACH

Jamshid Ahmadi

Professor of Addiction Psychiatry, Founding Director; Substance Abuse Research Center; Dual Diagnosis Ward; Shiraz University of Medical Sciences, Shiraz, Iran.

Abstract: Background: Currently cannabis connected disorders are more or less prevalent. **Objective:** To clarify cannabis related crucial condition. **Results:** Our psychotic urgent patient responded quickly to ECT. **Discussion:** This report demonstrated that ECT was life-saving and prominent in handling cannabis caused severe psychotic disorder. **Conclusion:** It appears that ECT is a safe and rapid approach in the management of urgent cannabis related psychosis.

Key words: Cannabis related psychosis; ECT

Introduction: In Iran, in the previous years, hashish, marijuana and amphetamine derivatives were smuggled in from foreign territories (including the east and the west countries), but currently it is illegally produced and manufactured in 'underground'.

Hashish effectiveness and potentiality is greater than marijuana. Smoking hashish or marijuana is more or less associated with psychosis, so that even a single experience or occurrence of abuse could induce hallucinations and delusions.

In the current industrialized world, especially the West, the prevalence of physical and mental

For Correspondence:

jamshid_ahmadi@yahoo.com Received on: February 2016

Accepted after revision: March 2016 Downloaded from: www.johronline.com diseases are moving ahead so that, health researchers, investigators, and health policy makers have been spending more time, money and attention to the management (1-10) prevalence, etiology, epidemiology prevention of psychiatric disturbances (11-30). Considering raising level of stress, anxiety, depression and other psychiatric illnesses, substance joined and connected disease, particularly and mainly stimulants caused disorders have been contemplated as ascending (31-69).These days. admissions of mental disorders resulted from stimulants abuse are going up (70-112).

Patient depict: Our patient was a 20 years old single, soldier with high school education. He lived with his parents in Marvdasht city of Fars province in the south part of Iran.

PM began smoking marijuana and tobacco since 4 years prior to admission. He step by step

advanced irritability, aggressive behaviors, and impulsivity.

Since 2 months prior to admission he started smoking hashish and increased the amount of marijuana, then developed hyperactivity, insomnia, aggressive behavior, irritability, persecutory and paranoid delusions and hallucinations.

He had occasionally been using benzodiazepines and opioids.

He had history of smoking cannabis in his family.

During comprehensive physical and precise neurological examinations we could not disclose any considerable abnormality.

Laboratory tests including urine screening tests for drugs were positive for THC, benzodiazepine, and morphine.

Viral markers (HIV, HCV and HB Ag) were normal.

Regarding DSM-5 criteria and exact medical, psychiatric, and substance use history PM was presumed as cannabis related psychotic disorder.

Patient received chlorpromazine 300 mg, valproate 600 mg, and olanzapine 30 mg per day for the treatment of irritability, hyperactivity, insomnia, and impulsivity.

In the 2nd day of dual diagnosis ward admission, due to the lack of response to the administered medications, and emergency situation of the patient, we started double bilateral ECT i.e. 2 sessions of ECT in the same session of anesthesia.

In the day of admission his cannabis withdrawal craving score was high.

According to the exact measurement, detailed interview and close monitoring (3 times per day) for cannabis psychosis and withdrawal symptoms, He reported and experienced a rapid descending level of craving and psychiatric symptoms after taking the 2ndsession of double ECT (overall 4 sessions of ECT).

Following 16 days of hospital admission and receiving 5 sessions of double ECT (overall 10 sessions of ECT), PM was discharged without any psychotic or withdrawal symptoms.

Discussion: This study demonstrated that ECT has rapid and dramatic influence on managing and subsiding cannabis related psychotic disorder. Use of ECT in these urgent and lifesaving conditions has not fully been narrated previously. Accordingly a systematic prospective study of ECT in the treatment of cannabis related psychosis and withdrawal symptoms should be reported, and consequently our experience is a wealthy addition to our literature.

Conclusion: We presumed that ECT has swift and valuable effects in the treatment of cannabis related psychotic reaction and cannabis withdrawal craving.

Acknowledgement: None to be declared.

Conflict of Interests: Nil

References:

- 1-Sadock, B., Sadock, V., Ruiz. P. (Editors) Kaplan &Sadock'S Synopsis of Psychiatry: Lippinott Wiliams and Wilkins, Philadelphia (USA), 2015.
- 2- Brian, J. Opium and infant-sedation in 19th century England, Health Visitor, 1994, 76, 165-166.
- 3-Jonnes, J. The rise of the modern addict, American Journal of public Health, 1995, 85, 1157-1162.
- 4- Ahmadi, J. Psychiatry in the future; Journal of Drug and therapy, February 1993, Vol.10, No.110.
- 5- Ahmadi, J. Emotion and feeling; Journal of University Student and Research of Shiraz University of Medical sciences, fall 1993, Vol, 1
- 6- Ahmadi, J. Human and Pain; Journal of Healthy Society, December 1993, Vol.3, No.13.
- 7- Ahmadi, J. The effects of biological and environmental factors on human behavior; Journal of Healthy Society, fall 1992, Vol.17, No.1.
- 8- Ahmadi, J. Behavior therapy and Bio behavior therapy; a comparative view; Journal of Social Sciences and Humanities of Shiraz University, fall and spring, 1992-3 Vol.8. No 1 and 2.
- 9- Ahmadi, J. Human and Bio behaviorism (A new theory and approach), Journal of Healthy Society. February 1994, Vol.3, No.14

- 10-Ahmadi J, Behavior Therapy, Shiraz, Shiraz University Press, Third edition, 1991.
- 11- Gill D, Ahmadi J, Pridmore S, Suicide and Gambling on the Public Record. MJP. 2014; 2 (1): 81-88
- 12- Ahmadi J, Kamel M, Ahmed MG, Bayoumi FA, Moneenum A. Mental Health of Dubai Medical College Students. Iran J Psychiatry Behave Sci. 2012; 6(2): 79-83.
- 13- Ahmadi J, Kamel M, Ahmed MG, Bayoumi FA, Moneenum AA. Dubai
- Medical College students' scores on the Beck Depression Inventory. Iranian Red Crescent Journal (IRCMJ). 2008; 10(3):169-172
- 14- Pridmore S, McInerney G, Ahmadi, Rybak M. Enlarged Virchow-Robin
- spaces in a psychotic woman, Journal of Psychiatric Intensive Care (2007) 3: 49-54
- 15- Pridmore S, Robinson J, Ahmadi J. Suicide for scrutinizers. Australas Psychiatry. 2007 Jun; 15 (3): 247-8.
- 16- Ghanizadeh A, Kianpoor M, Rezaei M, Rezaei H, Moini R, Aghakhani K,
- Ahmadi J, Moeini SR. Sleep patterns and habits in high school Students in Iran. Ann Gen Psychiatry. 2008 Mar 13; 7:5.
- 17- Ghanizadeh A, Arkan N, Mohammadi MR, Ghanizadeh-Zarchi MA, Ahmadi J. Frequency of and barriers to utilization of mental health services in an Iranian population. East Mediterr Health J. 2008 Mar-Apr; 14(2):438-46
- 18- Pridmore S, Ahmdi J, Two cases of 'Type 3' suicide. Australasian Psychiatry. 2010, Vol 18, No 5: 426-430
- 19- Pridmore S, Brüne M, Ahmadi J, Dale J. Echopraxia in schizophrenia:
- possible mechanisms. Aust N Z J Psychiatry. 2008, Jul; 42(7):565-71.
- 20- Pridmore S, Ahmadi J, Reddy A. Suicide in the absence of mental disorder. Working paper of public health. 2012, 6, 1-11
- 21- Pridmore S, Ahmdi J, Majeed ZA. Suicide in Old Norse and Finnish folk stories. Australasian Psychiatry. 2011, Vol 19, No 4:322-324
- 22- Pridmore S, Ahmdi J, Usage of download of psychiatry by Muslim Countries. Bulletin of clinical psychopharmacology. 2011, Vol 21, No 2: 174

- 23- Mani A, Dastgheib SA, Chanoor A, Khalili HA, Ahmadzadeh L, Ahmadi J, Sleep Quality among Patients with Mild Traumatic Brain Injury: A Cross-Sectional Study. Bull Emerg Trauma. 2015; 3(3): 93-96.
- 24- Pridmore S, Ahmadi J; Psalm 137 and Middle Cerebral Artery Infarction; ASEAN Journal of Psychiatry, 2015; 16 (2).
- 25- Pridmore S, Ahmadi J. Book reviews. Aust N Z J Psychiatry, 39(3): 205-6, 2005.
- 26- Pridmore S, Ahmadi J, Evenhuis M. Suicide for scrutinizers. Australas Psychiatry. 2006 Dec; 14(4):359-64.
- 27- Khademalhosseini Z, Ahmadi J, Khademalhosseini M, Prevalence of Smoking, and its Relationship with Depression, and Anxiety in a Sample of Iranian High School Students. Enliven: Pharmacovigil Drug Saf. 2015; 1(1):005.
- 28- Mackay-Smith M, Ahmadi J; Pridmore S, Suicide In Shooting Galleries ASEAN Journal of Psychiatry, Vol. 16 (1), January June 2015: 50-56
- 29- Ahmadi J, Ahmadi N, Soltani F, Bayat F. Gender differences in depression scores of Iranian and German medical students. Iran J Psychiatry Behav Sci 2014; 8(4): 70-73
- 30- Ahmadi J, Ghafoori F, Rahimi S, Management of heroin addiction with baclofen and clonidine. Int J Res Rep 2015; 1(1):6-10.
- 31- Ahmadi J, Sahraian A, Shariati S, Homicidal patient with major depressive disorder companion with opium dependence: A new arcade. Int J Res Rep 2015; 1(1):1-5
- 32- Ahmadi, J. Heroin Dependency Treatment: A New Approach. J Addict Depend 2015; 1(2): 1-3.
- 33- Ahmadi J Hashish-Induced Olfactory Hallucination: A Novel Finding. J Psychiatry, 2015; 18:330. doi:10.4172/2378-5756.1000330 34- Ahmadi, J. Excellent Outcome of Psychosis Induced by Methamphetamine Intoxication after 20 Sessions of Electro Convulsive Therapy. J Addict Depend
- 2015 1(2): 1-2.
- 35- Ahmadi J, Ekramzadeh S, Pridmore S, Remission of Methamphetamine- Induced Withdrawal Delirium and Craving after

- Electroconvulsive Therapy Iran J Psychiatry Behav Sci. 2015 December; 9(4):e1793.
- 36- Ahmadi J, Sahraian A, Dastgheib SA, Moghimi E, Bazrafshan A, Treatment of heroin abuse. Sch. Acad. J. Biosci., 2015; 3(11):966-968
- 37- Ahmadi J, Sahraian A, Dastgheib SA, Mani A, Mowla A, Ahmadzadeh L, ECT and methamphetamine psychosis: IJMPS. 2015; 7(1): 51-53
- 38- Ahmadi J Tramadol Dependency Treatment: A New Approach. J Addict Med Ther Sci., 2015; 2(1): 001-03.
- 39- Ahmadi J, Dehghanian I, Razeghian Jahromi L. Poly substance induced psychosis Sch. J. App. Med. Sci., 2015; 3(7D):2693-2695 40- Ahmadi J, Dehghanian I, azeghian Jahromi L., Substance induced disorder. Sch. J. App. Med. Sci., 2015; 3(7D):2700-2703
- 41- Ahmadi J, Pridmore S, Ekramzadeh S, Successful Use Of Electro Convulsive Therapy in the Management of Methamphetamine Induced Psychosis with Onset During Intoxication. J Addict & Depend, 2015; 1, 1-3
- 42- Ahmadi J. The Effect of Buprenorphine and Bupropion in the Treatment of Methamphetamine Dependency and Craving. Br J Med & Med Res 2015; 10 (2): 1-4
- 43- Ahmadi J, Sahraian A, Dastgheib SA, Mowla A, Ahmadzadeh L, Management of Methamphetamine-Induced Psychosis by 8 sessions of ECT Sch. J. App.Med. Sci., 2015; 3 (3H):1565-1566.
- 44-Ahmadi J, Amiri A, Ghanizadeh A, Khademalhosseini M, Khademalhosseini Z, Gholami Z et al . Prevalence of Addiction to the Internet, Computer Games, DVD, and Video and Its Relationship to Anxiety and Depression in a Sample of Iranian High School Students. Iran J Psychiatry Behav Sci. 2014; 8 (2):75-80
- 45- Ahmadi J, Soltani F, Tabatabaee F, et al., Substance Use Disorders in Patients With Lung or Heart Diseases. Sch. J. App. Med. Sci., 2014; 2(1A):111-120
- 46- Ahmadi J, Sharifi M Lifetime and Current Prevalence of Tobacco Smoking. J. Addict Res Ther 2013; 4: 145. doi:10.4172/2155-6105.1000145

- 47- Ahmadi J, Ahmed MG. Dubai Medical College Students' Attitudes towards Substance Use. J Addict Res Ther (2013) S6: 005. doi:10.4172/2155-6105.S6-
- 48- Ahmadi J, Keshtkar M, Pridmore S. Methamphetamine Induced Synesthesia:
- A Case Report. Am J Addict. 2011; 20: 306
- 49- Ahmadi J, Naghshvarian M, Afshari R. Opioid abuse in male population referred for mandatory Urine Opioid Screen before marriage in Shiraz-Iran. Iranian J Psychiatry Behav Sci.
- 50- Ahmadi J, Kampman K, Osline DM. et al, Predictors of Treatment Outcome in Outpatient Cocaine and Alcohol Dependence Treatment. Am J Addict. 2009; 18:81–86

2011; 5(2): 126-30.

- 51- Ahmadi J, Benrazavi L, Babaeebeigi M, Ghanizadeh A, Ghanizadeh M, Pridmore S. Substance use in a sample of medical patients. J Psychoactive Drugs. 2008 Sep; 40(3):315-9.
- 52- Ahmadi J, Kampman K, Dackis C, Sparkman T, Pettinati H Cocaine withdrawal symptoms identify Type B cocaine-dependent patients. Am J Addict. 2008; 17 (1): 60-64.
- 53- Ahmadi J, Pridmore S, Alimi, A, et al., Epidemiology of Opium Use in the General Population. Am. J. Drug and Alcohol Abuse, 2007; 33: 483–491.
- 54- Ahmadi J, Kampman K, Dackis C. Outcome predictors in cocaine dependence treatment trials. Am J Addict. 2006 Nov-Dec; 15 (6):434-9.
- 55- Tabei SZ, Heydari ST, Mehrabani D, Shamsina SJ, Ahmadi J, Firouzi SM. Current substance use in patients with gastric cancer in Southern Iran.
- J Can Res Ther 2006; 2:182-185
- 55- Ahmadi J, Fallahzadeh H, Salimi A, Rahimian M, Salehi V, Khaghani M, Babaeebeigi M. Analysis of opium use by students of medical sciences. J Clin Nurs. 2006 Apr; 15(4):379-86.
- 56- Ahmadi J, Tabatabaee F, Gozin Z. Physical trauma and substance abuse: a comparative study on substance abuse in patients with physical trauma versus general population. J Addict Dis. 2006; 25(1):51-63.

- 57- Ahmadi, J., Ahmadi, M., Pridmore, S., et al., Substance Use Disorders in Rheumatic Patients. German J Psychiatry.2005; 5 (8): 66-9. 58- Ahmadi, J., Menzies, P., Maany, I., et al., Pattern of cocaine and heroin abuse in a sample of Iranian general population. German J Psychiatry. 8 (1): 1-4. 2005
- 59- Ahmadi, J., Farrashbandi, H., Menzies, P et al., Prevalence of mood and anxiety disorders in a sample of Iranian outpatient opioid addicts. German J Psychiatry. 8 (1): 5-7. 2005.
- 60- Ahmadi, J., Farrashbandi, H., Majdi, B., et al., Substance-induced anxiety disorder in opioid dependents. Addictive Disorders & Their Treatments.1-4, 2005.
- 61- Ahmadi, J., Babaee-Beigi, M., Alishahi, M., Maany, I., Hidari, T. Twelve-month maintenance treatment of opium-dependent patients. J Subst Abuse Treat. 26(1): 363-366, 2004.
- 62- Ahmadi J, Babaeebeigi M, Maany I, et al. Naltrexone for alcohol dependent patients Irish J Med Science, 173 (1): 34-37, 2004.
- 63- Ahmadi, J., Majdi, B., Mahdavi, S., Mohaghegh, M., Mood disorders in opioid dependent patients. J.Affective Disorders. 82: 139-42, 2004.
- 64- Ahmadi, J., Farrashbandi, H., Moosavinasab, M., et al., Treatment of heroin dependence. German J Psychiatry. 7 (2): 1-5. 2004.
- 65- Ahmadi, J., Pridmor, S., Fallahzadeh, M. Neurotic scores in medical students. German J Psychiatry. 7: 51-5. 2004.
- 66- Ahmadi, J., Maharlooy, N., Alishahi, M. Substance abuse: prevalence in a sample of nursing students. J Clin Nurs. 13(1): 60-4, 2004.
- 67-Ahmadi, J., Alavi, M., Alishahi, M. Substance Use Disorders in a Sample of Iranian Secondary School Students. Social Indicators Research, 65(3): 355-360, 2004.
- 68- Pridmore, S., Skerrit, P., Ahmadi, J. Why do doctors dislike treating people with somatoform disorder? Australasian Psychiatry. 12 (2): 134 138, 2004.
- 69- Ahmadi, J., Toobaee, S., Alishahi, M. Depression in nursing students. J Clin Nurs. 13(1): 124. 2004.

- 70- Ahmadi, J., Ahmadi, K., Ohaeri, J. Controlled, randomized trial in maintenance treatment of intravenous buprenorphine dependence with naltrexone, methadone or buprenorphine: a novel study. Eur J Clin Invest. Sep; 33(9): 824-9, 2003.
- 71- Ahmadi, J. Methadone versus buprenorphine maintenance for the treatment ofheroin-dependent outpatients. J Subst Abuse Treat. Apr; 24(3): 217-20, 2003.
- 72- Ahmadi, J., Toobaee, S., Kharras, M., Radmehr, M. Psychiatric disorders in opioid dependants. Int J Soc Psychiatry. Sep; 49(3): 185-91, 2003.
- 73- Ahmadi, J, Etminan, H., Javanmardi, H. Reasons for cessation of opiate use among Iranian opioids dependants. Addictive Disorders & Their Treatment. 2(1): 9-12, 2003. 74- Ahmadi, J., Rayisi, T., Alishahi, M. Analysis of substance use by primary school students. German J Psychiatry, 3:56-59, 2003.
- 75- Ahmadi, J., Ashkani, H., Ahmadi, M., Ahmadi, N. Twenty-four week maintenance treatment of cigarette smoking with nicotine gum, clonidine and naltrexone. J Subst Abuse Treat. Apr; 24(3): 251-5, 2003.
- 76- Ahmadi, J., Ahmadi, M., Twelve-month maintenance treatment of heroin-dependent outpatients with buprenorphine. J Subst Use. April 8(1): 39-41, 2003.
- 77- Ahmadi, J., Sharifi, M. Cannabis abuse in Iran. Irish J Med Sci. Jan-Mar; 172(1): 46, 2003.
- 78- Ahmadi, J., Arabi, H., Mansouri, Y. Prevalence of substance use among offspring of opioid addicts. Addict Behav. Apr; 28(3): 591-5, 2003.
- 79- Ahmadi, J., Motamed, F. Treatment success rate among Iranian opioid dependents. Subst Use Misuse. Jan; 38(1): 151-63, 2003.
- 80- Ahmadi, J., Hasani, M. Prevalence of substance use among Iranian high school students. Addict Behav. Mar; 28(2): 375-9, 2003.
- 81-Ahmadi, J., Maany, I., Ahmadi, M. Treatment of Intravenous Buprenorphine Dependence: A Randomized Open Clinical Trial. German J Psychiatry 6:23-29, 2003.

- 82- Ahmadi, J., Javadpour, A. Assessing substance use among Iranian health care students. European J Psychiatry 16(3): 174-177, 2002.
- 83- Ahmadi, J., Bahrami, N. Buprenorphine treatment of opium-dependent outpatients seeking treatment in Iran. J Subst Abuse Treat. Dec; 23(4): 415-7, 2002.
- 84- Ahmadi, J., Samavatt, F., Sayyad, M., Ghanizadeh, A. Various types of exercise and scores on the Beck Depression Inventory. Psychol Rep. Jun; 90(3 Pt 1): 821-2, 2002.
- 85- Ahmadi, J., Yazdanfar, F. Substance use among Iranian university students. The International Journal of Drug Policy. 13(6): 507-508. 2002.
- 86- Ahmadi, J. A randomized, clinical trial of buprenorphine maintenance treatment for Iranian patients with opioid dependency. Addictive Disorders & Their Treatments. 1(1): 24-27, 2002.
- 87- Ahmadi, J., Benrazavi, L. Substance use among Iranian physical patients. The International Journal of Drug Policy. 13(6): 505-506, 2002.
- 88- Ahmadi, J., Ostovan, M. Substance use among Iranian male students. The International Journal of Drug Policy. 13(6): 511-512, 2002.
- 89- Ahmadi, J. Buprenorphine maintenance treatment of heroin dependence: the first experience from Iran. J Subst Abuse Treat. Apr; 22(3): 157-9, 2002.
- 90- Ahmadi, J., Benrazavi, L. Substance use among Iranian nephrologic patients. Am J Nephrol. Jan-Feb; 22(1):11-3, 2002.
- 91- Ahmadi, J., Ahmadi, N. A Double Blind Placebo-Controlled Study of Naltrexone in the Treatment of Alcohol Dependence. German J Psychiatry 2002; 5(4): 85-9, 2002.
- 92- Ahmadi, J., Benrazavi, L. Substance use among Iranian surgical patients. The International Journal of Drug Policy 13(6) 509-510, 2002.
- 93- Ahmadi, J. A controlled trial of buprenorphine treatment for opium dependence: the first experience from Iran. Drug Alcohol Depend. Apr 1; 66(2): 111-4, 2002.

- 94- Ahmadi, J., Benrazavi, L. Substance use among Iranian cardiovascular patients. Eur J Med Res. Feb 21; 7(2): 89-92, 2002.
- 95- Ahmadi, J., Benrazavi, L, Ghanizadeh, A. Substance abuse among contemporary Iranian medical students and medical patients. J Nerv Ment Dis. Dec; 189(12): 860-1, 2001.
- 96- Ahmadi, J., Fakoor, A, Pezeshkian, P., Khoshnood, R., Malekpour, A. Substance use among Iranian psychiatric inpatients. Psychol Rep. Oct; 89(2): 363-5, 2001.
- 97- Ahmadi, J., Khalili, H., Jooybar, R., Namazi, N., Mohammadagaei, P. Prevalence of cigarette smoking in Iran. Psychol Rep. Oct; 89(2): 339-41, 2001.
- 98- Ahmadi, J., Ghanizadeh, A. Current substance use among Iranian medical students. Indian J Psychiatry. 43(2): 157-161, 2001.
- 99- Ghanizadeh, A., Ahmadi, J. The MMPI Profile of Opiate Addicts of Iran: Evidence from Shiraz. Annals of Saudi Medicine 20, 3-4:334-5, 2000.
- 100- Ahmadi, J., Ghanizadeh, A. Motivations for use of opiates among addicts seeking treatment in Shiraz. Psychol Rep. Dec; 87(3 Pt 2): 1158-64, 2000.
- 101- Ahmadi, J., Khalili, H., Jooybar, R., Namazi, N., Aghaei, P.M. Cigarette smoking among Iranian medical students, resident physicians and attending physicians. Eur J Med Res. Sep 28; 6(9): 406-8, 2001.
- 102- Ahmadi, J., Ahmadi, M., Pridmore, S., et al., Substance Use Disorders in Rheumatic Patients. German J Psychiatry.2005; 5 (8): 66-9. 103- Ang-Lee K, Oreskovich MR, Saxon AJ, Jaffe C, Meredith C, Ellis ML, Malte CA, Knox PC, Single dose of 24 milligrams of buprenorphine for heroin detoxification: an
- open-label study of five inpatients, J Psychoactive Drugs, 2006 Dec; 38(4): 505-12 104- Kutz I, Reznik V. Rapid heroin
- detoxification using a single high dose of buprenorphine. J Psychoactive Drugs. 2001 Apr-June; 33(2):191-3
- 105- Anvar M, Ahmadi J, Hamidian S, Ghafaripour S Female Sexual Dysfunction Among the Wives of Opioid-Dependent Males in Iran Int J High Risk Behav Addict. 2016 March; 5(1): e25435.

- 106- Ahmadi J, Sahraian A, Shariati S, Delusional disorder joined with opium dependence Sch. J. App. Med. Sci., 2015; 3(9D):3387-3390
- 107- Ahmadi J, Dastgheib SA, Mowla A, Ahmadzadeh L, Bazrafshan A, Moghimi Sarani EM, Treatment of Methamphetamine Induced Persistent Psychosis. J Add Pre Med (2016) 1(1): 103.
- 108- Ahmadi J, Khoddaman AR,. Kordian S, Pridmore S. Treatment of an obese opioid dependent with a single dose of 80 mg of buprenorphine: a new opening. Int J Res Rep 2016; 2(1):11-18.
- 109- Ahmadi J, Ahmadi F, Torabi A, Ahmadi S, Ahmadi F. A single dose of 55 mg of buprenorphine for the treatment of heroin dependence: a new result. J Haminiz Med Res and Hlth Sci 2016; 3(1): 1-7
- 110- Ahmadi J, Methylphenidate in the treatment of methamphetamine withdrawal Craving: a novel outcome. J Drug Abuse. 2016; Vol. 2, No. 1: 12
- 111- Ahmadi J (2016) Misuse of tablets of ephedrine, adult cold and cold stop to get high: a distinguished enigma. Int J Res Rep 2: 30-35.
- 112- Ahmadi J. Instant Detoxification of Heroin with High Dose of Buprenorphine. J Addiction Prevention. 2016; 4(1): 3.