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Introduction: Original compound ortho-fluorobenzonal, a barbiturate derivative, is shown to reveal strong anticonvulsant activity by means increasing GABA-mediation. Disturbance of GABA(A)-receptors functions play an essential role in both alcoholism and epilepsy pathogenesis.

Objectives: Taking into account the presence of GABA(A)-receptors on the lymphocytes surface and involvement of immune system in alcoholism pathogenesis, we investigated ortho-fluorobenzonal effects on the immune and nervous systems functional activities in mice with chronic alcohol exposure to find new perspective pharmacological substances in the treatment of alcoholism.

Methods: (CBAXC57Bl/6) F1 male mice with 6-month 10% ethanol exposure were undergoing intragastric administration of original compound ortho-fluorobenzonal for 10 days. Animal's alcohol consumption, behavior and immune parameters were estimated.

Results: It was found that ethanol daily consumption decreased sharply starting from 2 days of ortho-fluorobenzonal administration and led to the cessation of ethanol consumption by the 4 day in mice with chronic alcohol exposure. Pronounced changes in motor and exploratory activities in "open field" test was registered in long-term alcoholized mice after 10-day course ortho-fluorobenzonal administration. The above behavioral changes were recorded against the brain cytokines synthesis modulation. We have shown also the modulation by ortho-fluorobenzonal of immune system functional activity, in particular, significant cellular and humoral immune response stimulation, estimated by the relative number of antibody forming cells and reaction of delayed-type hypersensitivity respectively.

Conclusions: Original compound ortho-fluorobenzonal has a positive neuroimmunomodulation effect that manifests itself in the correction of immune and behavior disorders caused by the chronic ethanol exposure, therefore, this compound is promising in the therapy of alcoholism

Disclosure: No significant relationships.

Keywords: Original anticonvulsant; alcoholism

EPV0677

Six-month contingency management effects on smoking cessation in individuals with substance use disorders

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Introduction: Persons with substance use disorders (SUD) smoke at strikingly high rates and tobacco use cessation rates are notably low in this population. Contingency Management (CM) is effective to promote substance abstinence, including tobacco, in a large range of populations. CM is scarcely implemented in clinical settings mainly due to barriers at the therapist and organizational levels.

Objectives: The study sought to examine the additive effectiveness of CM on Cognitive-Behavioral Therapy (CBT) over long-term smoking abstinence in persons undergoing SUD treatment.

Methods: A total of 54 smokers (75.9% males, $M_{age}=46.19$, $SD=9.21$) were randomly assigned to CBT ($n=30$) or to CBT+CM ($n=24$). Interventions consisted of eight weeks of group-based therapy. Participants were instructed to gradually reduce their nicotine intake by 20% weekly. The CM arm was voucher-based, and the primary outcome was biochemically verified tobacco abstinence ($CO \leq 4ppm$, and urine cotinine $\leq 80ng/ml$).

Results: A total of 42/54 (77.78%) participants completed the treatment (73.33% in CBT and 83.33% in CBT+CM; $p=.380$). At the end of treatment, participants in CBT+CM showed higher 24-hour smoking abstinence (50% vs. 20%, $p=.032$); however, both treatment conditions show equal abstinence rates in the remaining follow-ups (CBT_{1month}= 13.33% vs. CBT+CM_{1month}= 25%; CBT_{2months}= 10% vs. CBT+CM_{2months}= 16.66%; CBT_{3months}= 10% vs. CBT+CM_{3months}= 16.66%; CBT_{6months}= 10% vs. CBT+CM_{6months}= 8.33%; all p -values $\geq .244$).

Conclusions: CM facilitates early abstinence outcomes in smokers with SUD more than CBT only does. However, no additive effects of CM were observed at long-term, suggesting the convenience to intensify CM schedules or using technology platforms for incentives delivery.

Disclosure: No significant relationships.

Keywords: contingency management; smoking cessation; Substance Use Disorder; effectiveness

EPV0678

Electronic cigarettes use among teenagers in Tunisia

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Introduction: Electronic cigarettes (e-cigarettes) are battery-powered devices developed with the goal of mimicking the action of smoking. Their use has increased over the past years.

Objectives: The aim of this study was to evaluate the prevalence of the use of e-cigarettes among teenagers in high school and to examine the predictor factors.

Methods: A survey was conducted with a sample of 234 students in Mohamed Ali high school in Sfax, a town in the south of Tunisia, in February 2020. We estimated e-cigarette prevalence among adolescents and the predictor factors of vaping.

Results: Among high school students aged 15 to 20, 58,8% have ever used e-cigarette, 38,3% had done so within the previous 30 days and 20,5 % were regular users of vapes. The mean age of e-cigarette users was 16,59 +/- 0,908 years old, 83,3% of e-cigarettes users were males. Male gender, high socio-economic level, practicing leisure activities, smoking cigarettes and drinking alcohol were associated with regular use of e-cigarettes. Overall, 51, 6% of never smoking students reported ever use of e-cigarettes. The main reason for initiating e-cigarettes use was curiosity (65%).

Conclusions: Our findings showed the significant use of e-cigarettes among high school students thus it would be interesting to provide adolescents with information about the use of e-cigarettes and other tobacco products.

Disclosure: No significant relationships.

Keywords: Electronic Nicotine Delivery Systems; adolescent

EPV0679

Adolescents' attitudes towards e-cigarette in Tunisia

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Introduction: E-cigarette use has increased over the last years. Many studies have examined teenagers' attitudes towards smoking, but did not examine adolescents' attitudes towards e-cigarettes.

Objectives: The aim of this study was to examine high school students' attitudes regarding e-cigarette safety, addictive properties and social norms and to compare e-cigarettes perceptions among e-cigarette users and non-users in Tunisia.

Methods: A survey was conducted with a sample of 234 students in Mohamed Ali high school in Sfax, a town in South of Tunisia, in February 2020. Socio-demographic data and questions about vaping and attitudes towards e-cigarettes were used to evaluate students' perceptions towards e-cigarettes.

Results: Among high school students aged 15 to 20, 58,8% have ever used e-cigarette, 38,3% had done so within the previous 30 days and 20,5 % were regular users of vapes. 53.8% of students believed that e-cigarettes are harmful. 78.4% of them thought they were less harmful than regular cigarettes and 50.5% thought they could be addictive, 45.4% of students believed e-cigarette smoking decreased anxiety and a third thought it made them sociable (33.3%) and confident (30.6%). Adolescents who used e-cigarettes had significantly more favorable e-cigarette attitudes than non-users: they believed they were less harmful than tobacco ($p=0,019$), they were not addictive ($p=0,005$), they decreased anxiety ($p=0,001$) and they made the user sociable ($p<0,001$) and confident ($p=0,01$).

Conclusions: Our results suggest the need to provide teenagers with the correct information about e-cigarettes risks, and the balance risk-benefit of their use.

Disclosure: No significant relationships.

Keywords: adolescent; perception; Electronic Nicotine Delivery Systems

EPV0680

Predictors of smoking cessation treatment attrition in individuals with substance use disorders

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Introduction: Attrition rates in smoking cessation treatments are high, particularly in persons with substance use disorders. It is estimated that about 55% disengage prematurely at treatment, meaning that a large portion will not benefit from smoking

abstinence. So far, no previous studies have examined predictors of dropouts in a smoking cessation treatment with persons with SUD.

Objectives: The study was two-fold: 1) to analyze the percentage of early-, late-dropouts and completers, and 2) to examine sociodemographic, psychological, and substance-related predictors of dropouts.

Methods: A total of 86 participants (69.8% males; $M_{age}=43.84$, $SD=9.917$) were randomly assigned to two psychological smoking cessation treatment: cognitive-behavioral treatment (CBT) ($n=51$) or CBT + contingency management (CM) ($n=35$). Interventions were delivered during eight consecutive weeks

Results: Of the 86 participants who completed the baseline assessment, 21 did not start treatment, 17 dropped out of treatment during treatment, and the remaining 48 completed the treatment. Predictors of early-dropout were younger age ($B=-.234$; $p=.024$; $OR=.792$) and lower number of days in SUD treatment ($B=-.005$; $p=.026$; $OR=.995$). Patients' primary substance of use was associated with reduced early-dropouts; compared to cocaine users, alcohol ($B=-1.827$; $p=.043$; $OR=.161$) and opioids ($B=-3.408$; $p=.018$; $OR=.033$) related to improved attrition. Late dropout was directly related to higher number of tobacco use cessation attempts ($B=.407$; $p=.039$; $OR=1.502$).

Conclusions: Incorporating strategies to improve attendance and completion rates in SUD populations should be a priority. Mobile reminders, offering online therapies, or CM to reinforce attendance to therapy may be considered.

Disclosure: No significant relationships.

Keywords: Substance Use Disorder; attrition; dropouts; smoking cessation

EPV0681

Sociodemographic and clinical characteristics of patients with long-term remission with buprenorphine / naloxone in opiate use disorder

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Introduction: Buprenorphine/Naloxone (BP/NLX) is an effective drug combination used in long-term maintenance therapy in opiate use disorder (OUD). In some studies, abstinence over 180 days was defined as long-term remission (1).

Objectives: The aim of this study is to determine the sociodemographic and clinical characteristics of patients in long-term remission with BP/NLX.

Methods: In this study, 30 patients who were followed up with OUD at Akdeniz University Addiction Center and were in remission with BP/NLX for at least 180 days were evaluated retrospectively.

Results: Sociodemographic and clinical characteristics are summarized in table 1.

Conclusions: OUD is associated with lower quality of life and employment rate (2). In our study, the rate of working in a regular job is high. It can be concluded that prolonged remission improves functionality in patients. Although patients are in remission for a long time in terms of opiate use, 20% of patients continue to use cannabis and 10% continue to use cocaine. In a study, there was no difference in productivity and quality of life between BP users with and without