National Trauma and Substance Use: Lessons Learned from the Lebanese Crisis

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## Conflict of Interest

• No conflict of interest to disclose

## Outline

Introduction to Disaster Psychiatry

Implications of the Lebanese Crisis on SUD

Substance Use Disorders in Lebanon

Lessons Learned: anecdotal challenges and solutions

## Disaster Psychiatry

#### Disasters

- Community-wide events
- Result in *collective trauma* and substantial losses
- Demands exceed coping capacity low-resource setting

#### Terminology

- US: Disaster Behavioral Health
- WHO/ IASC: Mental health and psychosocial support (MHPSS)

## Post-disaster mental health outcomes

Disasters are associated with exacerbation of serious and persistent mental illness and new-onset common mental disorders (CMDs) in previously healthy individuals

#### **New-onset CMDs:**

Major depressive disorder (MDD)

**Generalized anxiety disorder (GAD)** 

Acute and posttraumatic stress disorders (ASD/PTSD)

**Onset or exacerbation of substance use disorders (SUDs)** 

Traumatic bereavement/complicated grief/prolonged grief disorder

Post-disaster behavioral and mental health outcomes affect each other

Patients with postdisaster depression and anxiety smoke more cigarettes and cannabis and drink more alcohol than those without mental health diagnoses

Those who engage in postdisaster smoking or drinking, but are without a mental diagnosis, are more likely to develop mental illnesses.

#### The IASC intervention pyramid for MHPSS is the international standard

HPSS is the andard	Examples:	
	Mental health care by mental health specialists (psychiatric nurse, psychologist, psychiatrist, etc).	Specialised services
	Basic mental health care by Primary Health Care doctor. Basic emotional and practical support by community workers	Focused (person-to-person) non-specialised supports
	Activating social networks. Supportive child-friendly spaces. Communal traditional supports	Strengthening community and family supports
	Advocacy for basic services that are safe, socially appropriate and protect dignity	Social considerations in basic services and security

WHO and UNHCR released the *mhGAP Humanitarian Intervention Guide (mhGAP-HIG)* focusing on adaptation and delivery of Specialized Services for persons with diagnosed psychopathology in emergency settings



Clinical Management of Mental, Neurological and Substance Use Conditions in Humanitarian Emergencies

#### mhGAP Humanitarian Intervention Guide (mhGAP-HIG)

# Lebanon in recent years

- Protracted humanitarian crisis and surge in number of refugees
- Severe economic collapse in 2019
- Political instability
- COVID 19 pandemic as of March 2020
- Beirut Blast August 2020 200 deaths, 5000 injured and at least 300,000 homeless
- The most common types of sustained injuries ranged from skin laceration and bruises to head trauma and penetrating injuries.

## Implications of the Lebanese Crisis on SUD

- There is substantial clinical evidence supporting a positive association among psychosocial adversity and chronic distress, organic brain injury, and vulnerability to addiction.
- This becomes particularly relevant to Lebanon, a country with an overwhelmed health care system and a large burden of mental illnesses.
- The relentless exposure to repetitive and highly distressing traumatic events has made the recent Lebanese
   "quadruple crisis" a possible breaking point into a worsening epidemic of SUD, along with other psychological sequelae in the country.

## SUD in Lebanon

Study	Aim	Sample	Substance	Results	Interventions
Dabaghi and Mack (2008) <sup>1</sup>	Examine the prevalence of HIV and drugs of abuse among inmates.	580 adult inmates at Roumieh prison, chosen randomly between August 2007 and February 2008.	Drugs of abuse.	57% of participants used drugs in prison. These drugs were cannabis (36%), cocaine (23%), and ecstasy (0.8%).	The authors concluded with suggestions to improve the detoxification and rehabilitation processes of the inmates.
Ghaddar et al. (2017) <sup>2</sup>	Assess the effectiveness of combining opioid agonist therapy and psychosocial support in treating patients with opioid use disorder.	181 male patients diagnosed with opioid use disorder and prescribed opioid agonist treatment at Skoun center, recruited between January 2013 and December 2014.	Heroin, cocaine, and cannabis.	86 patients completed the 3 months follow-up and 38 patients completed the 12 months follow-up. The prevalences of heroin, cocaine, and cannabis use were 89.4%, 11.6%, and 17.4% for the 86 patients who completed the 3 months follow-up and 94.7%, 15.8%, and 18.4% for the 38 patients who completed the 12 months follow-up, respectively.	The patients received buprenorphine weekly as a take-home dose and were followed-up for psychosocial support every week. Statistically significant improvements were noted in patients treated for 3 months.
Ghandour et al. (2012) <sup>3</sup>	Identify the prevalence of abusing prescribed psychoactive drugs and the motivations behind it among Lebanese university students.	570 students at the American University of Beirut.	Psychoactive prescription drugs (sleeping, anxiety, stimulant, and pain medications).	The psychoactive drugs used among students for exclusively non-medical reasons were: 4.73% used a sleeping drug, 2.5% used a drug to suppress anxiety, 2.46% used a stimulant, and 3.75% used a pain control drug.	Not applicable.
Ghandour et al. (2013) <sup>4</sup>	Compare alcohol and drug use between medical and non-medical users of prescribed opioids.	570 private university students selected using a proportionate 2- stage stratified cluster sampling technique.	Alcohol, ecstasy, marijuana, cocaine, and opioids.	25% of students used prescribed opioids for only medical reasons. Patients using medically prescribed opioids were more likely to use marijuana (OR = 1.8, 95% CI 1.1-2.8). Nonmedical users of opioids were at a higher risk of using marijuana (OR = 7.8, CI 1.9-32.7), ecstasy (OR 9.1, CI 1.2-71.5), cocaine (OR 30.1, CI 8.6- 105.3), and alcohol (OR 3.9, CI 1.0-14.9).	Not applicable.

## SUD in Lebanon

Ghandour et al. (2015) <sup>5</sup>	Identify the prevalence of alcohol usage among 7-9 <sup>th</sup> graders to assess the gaps in alcohol purchasing and drinking policies.	5109 middle school students (7-9 <sup>th</sup> graders) from public and private schools and another 2784, surveyed respectively in 2005 and 2011.	Alcohol.	In 2011, 87% of students had tried alcohol (1 glass at least) while 27% reported drinking regularly or had at least one alcoholic drink during the past 30 days. 20% of students had experienced drunkenness.	The authors concluded with harm reduction policy recommendations.
Obeid et al. (2020) <sup>6</sup>	Examine the factors associated with alcohol use disorder.	789 Lebanese residents from the five Mohafazat in the country.	Alcohol.	A more significant percentage of illiterate participants were at higher risk of alcohol use disorder when compared to university students (67% vs. 43%, respectively). The same applies to widowed participants (84%) versus married ones (47%).	Not applicable.
Talih et al. (2016) <sup>7</sup>	Examine the prevalence of depression and burnout among residents and its association with alcohol and drugs of abuse.	All 311 residents and interns at the American University of Beirut Medical Center in 2013. 118 fully completed the questionnaire.	Alcohol and drugs of abuse.	<ul> <li>14% of participants reported illicit drug abuse. 12% of participants were found to have a low-level problem with drugs,</li> <li>2.5% had a moderate one, and none had a high-level problem with drugs.</li> <li>59% of participants reported drinking alcohol and 10% reported hazardous alcohol use.</li> </ul>	Not applicable.
Talih et al. (2018) <sup>8</sup>	Assess the prevalence of depressive and anxiety symptoms, burnout, and attitudes towards substance use in medical students.	All 412 medical students at the American University of Beirut Medical Center in 2016. 176 fully completed the questionnaire.	Alcohol and drugs of abuse.	<ul> <li>58.1% of medical students reported using alcohol. 34.9% reported using an illicit drug at some point in their lives. Out of these, 1.7% had a severe drug problem, 8.3% had a moderate drug problem, 43% had a low-grade drug problem, and 46.7% had non-problematic drug use.</li> </ul>	Not applicable.

## Commonly misused substances

- One of the most commonly seized drugs in the country is **cannabis**.
- Other commonly consumed substances include
- opiate derivatives (natural and synthetic)
- Cocaine
- amphetamine-like stimulants (a common street name/brand is Captagon)
- and recreational "party" drugs such as MDMA (ecstasy), LSD, GHB
- Recently, smoking Salvia Divinorum (a psycho- active plant) has also been on the rise.

## Healthcare System Related Challenges

- Medication shortages
- National psychiatric bed shortages
- Exodus of healthcare workers - 30-40%
- No national mental health policy act
- No mental health coverage mostly out-of-pocket costs



A pharmacy employee looks through mostly empty medicine cabinets at the Rafik Hariri University Hospital in Beirut.

How greed fueled Lebanon's deadly milk and medicine shortage The Washington Post

Democracy Dies in Darkness

Middle East

Lebanon was famed for its medical care. Now, doctors and nurses are fleeing in droves.



## Addiction related challenges



- Opioid substitution programs Buprenorphine shortages
- Financial stressors leading to increased withdrawal presentations
- Patients seek substance replacement
- Lack of data, access and screening to a large population at risk including refugees and the elderly
- People with TBI and frontal disinhibition symptoms at higher risk of addictive behaviors
- People with physical injuries and pain syndromes at higher risk of self medication and substance misuse
- Healthcare workers: strong correlation between burnout and substance misuse

Dear Minister @firassabiad. This medication that kept more than 1200 former Heroin addicts safe for over 10 years under a program by @mophleb will be out of stock in the coming weeks unless an urgent solution is found to avoid life threatening situations .#Lebanon #mentalhealth



## Primary Prevention Lessons Learned



Implementing a Stepped Care System A system of delivering mental health interventions so that the most effective yet least resource- intensive treatment is delivered to patients first

Step up as clinically required

Ambulatory psychiatry visits for high symptom severity or risk of harm

Screening, screening, screening Targeted due to limited resources

Validated screening

Brief screening – smaller burden on frontliners

Highly sensitive for high-risk behavior or psychiatric emergencies

Highly specific for vulnerable groups

### Our own experience



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 @AubmcPsychiatry

#### Our CL team in action 🧝 🧟 😨



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## An example of Task Shifting

#### Neglect/Abuse Assessment

#### Possible Neglect/Abuse

No Yes 🔻 🗋

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 Based on the documentation completed a BPA for the physician would appear to place a psychiatry consult and suicide precaution orders

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## CIWA- AR

 Consult team held training sessions for medical and surgical nurses along with chief residents

#### Nausea/Vomiting - Rate on scale 0 - 7 Tremors - have patient extend arms & spread fingers. Rate on scale 0 - 7. 0 - None 0 - No tremor 1 - Mild nausea with no vomiting 1 - Not visible, but can be felt fingertip to fingertip 4 - Intermittent nausea 4 - Moderate, with patient's arms extended 7 - Constant nausea and frequent dry heaves and vomiting 7 - severe, even w/ arms not extended Anxiety - Rate on scale 0 - 7 Agitation - Rate on scale 0 - 7 0 - no anxiety, patient at ease 0 - normal activity 1 - mildly anxious 1 - somewhat normal activity 4 - moderately anxious or guarded, so anxiety is inferred 4 - moderately fidgety and restless 7 - equivalent to acute panic states seen in severe delirium 7 - paces back and forth, or constantly thrashes about or acute schizophrenic reactions. Paroxysmal Sweats - Rate on Scale 0 - 7. Orientation and clouding of sensorium - Ask, "What day is 0 - no sweats this? Where are you? Who am I?" Rate scale 0 - 4 1- barely perceptible sweating, palms moist 0 - Oriented 1 - cannot do serial additions or is uncertain about date 4 - beads of sweat obvious on forehead 2 - disoriented to date by no more than 2 calendar days 3 - disoriented to date by more than 2 calendar days 4 - Disoriented to place and / or person 7 - drenching sweats Tactile disturbances - Ask, "Have you experienced any Auditory Disturbances - Ask, "Are you more aware of sounds itching, pins & needles sensation, burning or numbness, or a around you? Are they harsh? Do they startle you? Do you hear feeling of bugs crawling on or under your skin?" anything that disturbs you or that you know isn't there?" 0 - not present 0 - none 1 - very mild itching, pins & needles, burning, or numbness 1 - Very mild harshness or ability to startle 2 - mild itching, pins & needles, burning, or numbness 2 - mild harshness or ability to startle 3 - moderate itching, pins & needles, burning, or numbness 3 - moderate harshness or ability to startle 4 - moderate hallucinations 4 - moderate hallucinations 5 - severe hallucinations 5 - severe hallucinations 6 - extremely severe hallucinations 6 - extremely severe hallucinations 7 - continuous hallucinations 7 - continuous hallucinations Visual disturbances - Ask, "Does the light appear to be too Headache - Ask, "Does your head feel different than usual? bright? Is its color different than normal? Does it hurt your Does it feel like there is a band around your head?" Do not rate eyes? Are you seeing anything that disturbs you or that you dizziness or lightheadedness. know isn't there?" 0 - not present 0 - not present 1 - very mild sensitivity 1 - very mild 2 - mild sensitivity 2 - mild 3 - moderate sensitivity 3 - moderate 4 - moderate hallucinations 4 - moderately severe 5 - severe hallucinations 5 - severe 6 - extremely severe hallucinations 6 - very severe 7 - continuous hallucinations 7 - extremely severe

#### Alcohol Withdrawal Assessment Scoring Guidelines (CIWA - Ar)

Beirut Blast Victims and COVID patients All on-site activities and outpatient face-toface clinical services were paused in both events.

Crisis intervention services and triage services were rapidly designed and implemented.

**Psychology interns and psychiatry residents** volunteered to apply phone screening protocols and triage assessments for people affected by the quarantine and the blast

#### Patient Health Questionnaire (PHQ-4)

PHQ-4							
Over the last 2 weeks, how often have you been bothered by the following problems? (Use "" to indicate your answer)	Not at all	Several days	More thar half the days	Nearly every day			
1. Feeling nervous, anxious or on edge	0	1	2	3			
2. Not being able to stop or control worrying	0	1	2	3			
3. Little interest or pleasure in doing things	0	1	2	3			
4. Feeling down, depressed, or hopeless	0	1	2	3			

(For office coding: Total Score T\_\_\_\_ = \_\_\_\_ + \_\_\_\_ +

Developed by Drs. Robert L. Spitzer, Janet B.W. Williams, Kurt Kroenke and colleagues, with an educational grant from Pfizer Inc.



### Reconceptualizing SUD as an inpatient diagnosis



In financial and healthcare shortages, patients are more likely to present in inpatient medical settings compared to ambulatory services

The opportunity is there to provide quality mental health services while patients are hospitalized – including motivational enhancement Tailoring Data collection – the case of oncology patients and substance misuse

- For opioids and narcotics
- 12.3% patients without cancer used narcotics, compared to 39.4% of patients without cancer
- The global prevalence of misuse is around 7.7% and it's 2.2% in our sample
- The opioid epidemic is largely an American thing that has come to be considered a global crisis



## Task Shifting

• Psychology interns and psychiatry residents volunteered to apply phone screening protocols and triage assessments for people affected by the quarantine and suffering from mental health difficulties due to the virus.

• Daily individual online therapy sessions and group sessions were offered to patients in quarantine and to their families who often expressed distress and worry over their family members.  Shifting service delivery of specific tasks from professionals with higher qualifications to those with fewer qualifications or creating a new cadre with specific training.



#### Focusing on deployment of emergency psychiatry services

- During the pandemic and post-blast, most of our services were halted while we directed our human resources towards providing crisis intervention.
- Shortly after the explosion, the Department of Psychiatry launched the Trauma Assessment and Support Clinic (TASC)
  - Immediate mental health support
  - Free of charge to individuals who were psychologically affected by the blast
  - Facilitated access to mental health services to patients not previously in the psychiatric system prior to the disaster



# Leveraging telemedicine

- Rapidly deployed during pandemic globally however still poorly implemented in Arab countries including Lebanon
- Access to reliable internet connectivity and electric power remains a challenge in many LMIC settings

#### Neuropsychiatric Disease and Treatment

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REVIEW

#### Telepsychiatry in the Arab World: A Viewpoint Before and During COVID-19

This article was published in the following Dove Press journal: Neuropsychiatric Disease and Treatment

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**Purpose:** Telepsychiatry, a subset of telemedicine, has been increasingly studied to meet the growing demands for psychiatric care. The utility of telepsychiatry is relevant now more than ever as the world endures the COVID-19 global pandemic. This paper describes the prior state and the changes that the COVID-19 outbreak brought to telepsychiatry in a selected group of Arab countries of the Middle East and North Africa (MENA) region.

**Patients and Methods:** We invited twelve early-career psychiatrists from different Arab nations to share information related to telepsychiatry in their respective countries before and during the COVID-19 pandemic. The information was collected using a semi-structured guide. This was complemented by a search for relevant articles in five search engines using terms such as "COVID-19," "telepsychiatry," and "Arab world".

**Results:** Before the pandemic, digital mental health services were provided in several Arab countries, mainly through hotlines and messaging services. The COVID-19 pandemic has marked a major shift in digital psychiatric services in the Arab MENA world, through the transformation of many clinics and some hospitals into digital mental health systems. Many non-governmental organizations also started remote initiatives for psychological support and psychiatric counseling. Three main barriers of patient-related, healthcare-related, and system-related hurdles of using telepsychiatry emanated from the analysis.

**Conclusion:** The use of digital mental health services varies between different Arab countries. Even though some nations have laws that regulate the provision of such services, most struggle with multifactorial barriers. As affordable and attainable solutions cannot only rely on training and recruiting more psychiatrists, telepsychiatry would help meet the exceeding demands in the Arab world, particularly after the COVID-19 outbreak. **Keywords:** telepsychiatry, mental health, Arab, COVID-19

## Engaging community stakeholders

- Community-based initiatives and organizations, including nongovernmental organizations (NGOs), are main drivers of psychosocial progress in LMIC.
- Particularly in LMIC, NGOs not only are advocacy champions but can also be trusted source of external funding
- In countries with high financial constraints, partnering with NGOs can facilitate priority-setting, resource mobilization, mental health research advancement, staff training and capacity development of substance use services.

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