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PSYCHIATRIC CONFERENCE

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# Measuring Traumatic Stress Symptoms among Jordanian Patients after Coronary bypass Grafting using Impact of Event Scale- R

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# Introduction

- ❑ There is growing recognition of the importance of psychological factors in the recovery from medical procedure.
- ❑ The recovery from surgery (cardiac\ non cardiac) is not entirely determined by physical attributes and medical treatment.
- ❑ Social, and psychological factors may also influence the process of postoperative and long-term recovery.

( Oxlad, et al, 2004)

# Introduction

- ❑ **Coronary artery bypass grafting (CABG) is one of the most common surgical procedures performed to revascularize the coronary artery.**
- ❑ **Stress is a negative emotion that occurs in response to perceived threat.**
- ❑ **It is evidenced, that patients who underwent surgeries were more likely to report stress symptoms.**

# Significance

**It is a knowledge that, traumatic stress resulted from medical or surgical interventional treatment may cause negative impacts on patients' physical, mental, and social well-being.**

# Purpose

The aim of this study was to *Measure Traumatic Stress Symptoms among Jordanian Patients Underwent Coronary Artery Bypass Grafting ( CABG) using Impact of Event Scale-R Arabic version.*

# Methodology

- **Sample**

**A convenience sample of 120 adult patient underwent elective CABG surgery were participated in this study.**

**Inclusion criteria:**

- **Adult patient underwent elective CABG surgery**
- **within the last six months**
- **with no complications postoperatively**
- **Willing to participate in the study**



# Methodology

- **Setting**

**The study was carried out in one of the military hospital which provides medical and surgical health care services for patients with cardiac disorders including the medical and surgical management.**

# Methodology

- **Measurement Tools**

**To collect the data, two self-reported questionnaires were used.**

**□ First one is the socio-demographic questionnaire which include data about the participants' age, sex, and number of grafting vessels.**

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# Measurement Tools

- ❑ Second scale was the Impact of Event Scale-R, (Arabic version), used to measure the traumatic symptoms.
- ❑ A total score  $> 40$  is indicating significant traumatic stress response.
- ❑ The reliability was measured (Cronbach's alpha) which reported .86.

# Data Collection

- **Before data collection, ethical considerations were approved.**
- **The participants permission to participate in the study was assured.**
- **Explanation about the purpose of the study, their rights and confidentiality were explained.**

# Results and Discussion

- The collected data was analyzed using computer program ( SPSS).

**Table 1**

<b>Variable</b>	<b>Freq</b>	<b>%</b>
<i>Age</i>		
<b>42-48</b>	<b>24</b>	<b>20%</b>
<b>49-55</b>	<b>58</b>	<b>48%</b>
<b>56-61</b>	<b>12</b>	<b>10%</b>
<b>62-68</b>	<b>26</b>	<b>22%</b>
<b>Total</b>	<b>120</b>	<b>100%</b>
<i>Sex</i>		
<b>Male</b>	<b>90</b>	<b>75%</b>
<b>Female</b>	<b>30</b>	<b>25%</b>
<b>Total</b>	<b>120</b>	<b>100%</b>

# Results/Discission

- Regarding the vessels grafting

Table 2

Variable	Frequency	%
One vessel	35	29
Two vessels	40	33
Three vessels	15	12.5
Four vessels	20	17
More than four	10	8.5
Total	120	100

# Results

Regarding the perceived stress (Table 3)

Variable \ IES-R	Freq	%
No traumatic symptoms ( $\leq 40$ )	30	25
Mild traumatic symptoms (41-50)	15	12.5
Moderate traumatic symptoms (51-60)	40	33.5
Severe traumatic symptoms ( $> 60-80$ )	35	29

# Results/Discussion

- ❖ **The results of the study reported that 75% of the participants had traumatic symptoms ( $> 40$ ).**
- ❖ **Female patients had high level of traumatic symptoms.**



# Results/Discussion

- ❖ It was evidence that patients with three vessels grafting had high level of traumatic stress symptoms.
- ❖ The patients with age (42-48) had high level of traumatic stress symptoms.
- ❖ Monthly income, educational level, job, and marital status had not evidence in the development of stress traumatic symptoms among the participants

# Conclusion/Recommendations

- **Patients underwent CABG surgery are at risk to develop traumatic stress symptoms postoperatively which have negative impact on their health and quality of life.**
- **This implies the important of preoperative preparation and the significant roles of health care-providers in recognizing the patients psychological status as integral part in patient's treatment.**



**THANK YOU**