

# POSTER PRESENTATION



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Vascular e-Learning in Middle East & North Africa during the **COVID** pandemic: regional results and variations of the EL-COVID survey

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# INTRODUCTION

The COVID-19 pandemic has changed training and education. The overall utility of vascular e-Learning (eL) during the COVID-19 pandemic was assessed through the vascular e-Learning During the COVID-19 Pandemic (EL-COVID) study (1). Regional variability was observed amongst participating nations.

# AIM

This study aims in investigating the adherence and adoption of vascular eL in the Middle East and North Africa (MENA) regions and to examine the variability between regional results and global results.

# **METHODS**

An online survey was disseminated during the early phase of the COVID pandemic. Vascular surgeons and vascular trainees were invited to participate by open invitations through social media and direct contact from local collaborators . 17 closed questions were used as well as one open question for improvement propositions. The full version of the questionnaire can be accessed online by scanning the QR code at the end of this poster. For an activity to be considered, it had to be offered exclusively online during the first months of the pandemic and to cover a vascular or endovascular topic. Ethical approval was obtained from the National & Kapodistrian University of Athens- Greece. EL-COVID regulations for data protection were followed Answers were described in percentages. N-1 cgi-squared test was used to compare

### Fig. 3: Gender repartition among participants in MENA regions (N=78) (A) and globally (N=856) (B)







> 4 activities
2-4 activities
1 activity

### Fig. 8: Ease of activity retrieval

### MENA regions results with EL-COVID survey global results.

# RESULTS

The integral results of EL-COVID survey are published and can be accessed online (2). When compared with EL-COVID global results, MENA results shows no statistically significant difference in post-training experience, number of activities attended, national of international status of the activity, activity accreditation, reasons and obstacles for participation, channels of diffusion, overall impression and ease of delayed access.

In specific points of the survey there is however significant variation as when it comes to gender ratio with female/male ratio of 1/7.7 in MENA regions in comparison with the global 1/3.7 ratio. While the geographical distribution of the participants does not reflect the size of the national vascular societies, it does however illustrate the importance of national societies endorsement. The endorsement of this research by the Lebanese Society for Vascular Surgery resulted in a higher participation rate among its members.

Only half of the participants benefited from employer support and the majority of activities, whether national or international, did not offer any official accreditation.

### Table 1: Geographical Distribution of Participants (N=78, Countries= 16)

| Number Of Participants |
|------------------------|
| 3                      |
| 1                      |
| 8                      |
| 10                     |
| 2                      |
| 1                      |
| 24                     |
| 2                      |
| 1                      |
| 1                      |
| 9                      |
| 2                      |
| 1                      |
| 9                      |
| 3                      |
| 1                      |
|                        |



■ >5 years of practice <5 years of practice</p> trainees

## Fig. 5: Primary determinants for attending an activity





### Fig. 9: Overall impression of the participants



# CONCLUSIONS

Covid 19 pandemic accelerated the pace of eL in a dramatic way. While the majority of the participants reported a positive experience, further changes should be undertaken to improve the results. Efficacy and efficiency of vascular eL should be assessed in a more global manner.

### Fig. 4: Professional expertise of the participants

### **Fig.1:Variations between global results and MENA results**

| Point examined         | MENA results when compared to global results |
|------------------------|--|
| Participation of women | Lower  |
| Accreditation's role   | Lower  |
| Role of social media   | Higher                                       |
| Workload issues        | Lower  |
| Time-zone issues       | Higher                                       |

### Fig. 2: Dissemination of activity related information



# **Topic (55.1%)**

Official accreditation (7.7%)

Othe

### Fig. 6: Reasons for skipping an activity



National Societies endorsement of such researches could play a determinant role.

### **EL COVID COLLABORATORS**

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