

Current situation of orthopaedic education and training in APOA Region

(A SURVEY BY THE APOA EDUCATION COMMITTEE)

Dear APOA Council Members,

This questionnaire is designed by the APOA Education Committee to have an overview of the current regulations and practices of orthopaedic residency and education programs across the APOA Region.

A report will be produced from the survey results. There will also be a plenary lecture during APOA 2022 Manila Congress on this subject which will include the results of the survey. We are also planning to prepare a brief manuscript to be submitted to the *Journal of Orthopaedic Surgery*, which is the official journal of APOA.

We kindly ask the chief delegate of each country to take responsibility for collecting and sending information. We need **only one** completed questionnaire from each member country. Please do not fill the survey and send back to us separately but assist your chief delegate to provide the information about your country. The providers of information from each country will be listed in the acknowledgments section of the final report. There must be at least one federation delegate among the information providers from countries that are also federation members. In this way, the resources of national societies will also be reflected in the report. The president of the national society (or a member of the executive committee) is preferred to be among the info providers.

Please answer all questions if possible. The completeness of the final report that will be produced with the information you provide is important. Any lacking information will be seen as “missing data” in the section about your country.

Please ensure that all data you provide to this survey is up-to-date.

If the numerical data such as the number of orthopaedic surgeons in your country or the number of members of the national orthopaedic society are not 2022 data but from the past years, please indicate which year it belongs to in parentheses. All numerical data without a year specified next to it will be considered to be 2022 data.

You can tick more than one option when appropriate.

Please provide additional information for any question when you think it is necessary.

We kindly request that the completed questionnaires be sent to the APOA Education Committee by Friday, June 17 2022 at the latest.

Please send your answers to the e-mail addresses below:

Dr. Onder Aydingoz
Chair, APOA Education Committee
aydingozo@yahoo.com

Dr. Arif Khan (cc)
Secretary General, APOA
Member, APOA Education Committee
a_khan37@yahoo.co.uk

Dr. Bedri Karaismailoglu (cc)
Member, APOA Education Committee
Secretary, APOA Young Surgeon's Forum
bedrikio@hotmail.com

Thank you in advance for your cooperation and contribution.

Sincerely,

Dr. Onder Aydingoz
Chair, APOA Education Committee

Country:

Name of the national orthopaedic society:

Provider(s) for the country information:

Name:

E-mail address:

Mobile number:

Name:

E-mail address:

Mobile number:

Name:

E-mail address:

Mobile number:

Name:

E-mail address:

Mobile number:

Name:

E-mail address:

Mobile number:

A. GENERAL INFO

- 1- Number of orthopaedic surgeons in your country:
- 2- Number of orthopaedic residents in your country:
- 3- Number of female orthopaedic surgeons in your country:
- 4- Number of female orthopaedic residents in your country:
- 5- Number of members of the national orthopaedic society:
Orthopaedic surgeons:
 Male: Female:
Residents:
 Male: Female:
- 6- Is there any association for orthopaedic residents?
 - Yes, dependent on national association
 - Yes, independent from national association
 - No
 - No but there is a trainee association comprising of trainees of all specialties

B. ORTHOPAEDIC RESIDENCY

7- Does your country have a formal residency program?

Yes

No

(If no, please describe briefly how orthopaedic surgeons get their training and proceed to question 33)

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General info and selection procedure

8- What kind of institutions provide orthopaedic residency programs?

University Hospitals

Public – Training hospitals

Private – Training hospitals

Other (Please specify):

9- What is the length of orthopaedic residency programs in your country?

4 years

5 years

6 years

Other (Please specify):

10- Who can apply for orthopaedic residency?

Domestic medical license holder

Foreign medical license holder

Other (Please specify):

11- Which of the following method is used in your country during selection of candidates for orthopaedic residency programs?

- CV
- Interview
- National exam (Same exam for all specialties)
- National exam (Seperate exam for orthopaedics and traumatology)
- References
- Other (Please specify):

12- Is there a national standard curriculum for orthopaedic residency?

- Yes
- No
- Yes, but not in practice

13- Is there any credit system used to track educational activities?

- Yes
- No

14- Are there rotations between different institutions?

- Yes
- No
- Depends on the institution

15- Are rotations between different subspecialties of orthopaedics and traumatology required?

- Yes
- No
- Depends on the institution

16- Are there rotations to other specialties?

- No
- General Surgery (If yes, duration:)
- Cardiovascular Surgery (If yes, duration:)
- Plastic Surgery (If yes, duration:)
- Emergency Medicine (If yes, duration:)
- Physical Therapy and Rehabilitation (If yes, duration:)
- Anaesthesiology (If yes, duration:)
- Other (Please specify:)

17- Is there any mandatory laboratory-based surgical skills and simulation training for the junior orthopaedic residents?

- Yes
- No
- Depends on the institution

18- Is there any mandatory interim exams during residency program?

- Yes (Interim written exams)
- Yes (Interim oral exams)
- Yes (other) Please specify
- No

19- Is there a resident logbook in use?

- Yes, mandatory for completion of residency
- Yes, but not mandatory
- No

20- What kind of logbook is used if available?

- Paper
- Web-based
- Not available

21- Does the training offer non-surgical skill elements like interpersonal interactions, conflict resolution, business management of medical practice, leadership training and focus on team work etc?

- Yes (Please explain.....)
- No

Working conditions during residency

22- Are residency positions paid?

- Yes
- No
- Depends on the institution

23- Are residents being paid for extra hours (night shifts, etc) ?

- Yes
- No
- Depends on the institution

24- How many night shifts does a junior resident have in general?

- Less than 5 in a month
- Between 5-10 in a month
- More than 10 in a month

25- How many night shifts does a senior resident have in general?

- Less than 5 in a month
- Between 5-10 in a month
- More than 10 in a month

26- Is there a day-off after night shifts?

- Yes
- No
- Optional
- Depends on the institution

27- What is the maximum resident work-hours per week?

Normal work-hours per week:

On call work-hours per week:

Requirements for completion of residency

28- Is there any minimum requirements for following activities during orthopaedic residency?

Courses attended – Minimum hours/month (Please specify)

Number of surgical procedures: performed - assisted (Please specify)

Research (Please specify.....)

29- Do trainees need to publish or do a higher research degree?

Yes

No

30- Is writing a thesis mandatory to complete orthopaedic residency?

Yes

No

31- Which of the following exam(s) are required for completion of residency?

Final written exam

Final oral exam

Surgical exam

National board exam

Other (Please specify.....)

32- Is there a compulsory public service period after completion of residency to practice freely as an orthopaedic surgeon?

Yes (Please specify duration, etc.)

No

C. BOARD CERTIFICATION

33- Is there a national board of orthopaedics and traumatology in your country?

- Yes (Government approved)
- Yes (Approved by orthopaedic association)
- No

If no, please proceed to question 39.

34- Is there a national exam for board certification?

- Yes, and it is mandatory to practice
- Yes, but not mandatory
- No

35- How is the board certification exam in your country?

- Written exam
- Oral exam
- Other (Please specify:)

36- Is there an expiry date of the board certificate?

- Yes (Recertification is necessary after years)
- No

37- How is the recertification procedure?

- By retaking the exam
- By collecting CME (Continuing Medical Education) points
- Others (Please specify.....)

38- Are there national boards and board exams for any subspecialty?

- Yes, and it is mandatory to practice (Please specify which subspecialties.....)
- Yes, but not mandatory (Please specify which subspecialties)
- No

D. FELLOWSHIP AFTER RESIDENCY

39- Are official fellowship programs available?

- Yes (Government approved)
- Yes (Approved by orthopaedic association)
- No

(If no, please describe briefly how orthopaedic surgeons get into practice in a subspecialty and proceed to question 49)

40- Please provide a list of subspecialties for which a fellowship program is available.

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41- Who can apply for orthopaedic fellowships?

- Domestic medical license holder
- Foreign medical license holder
- Board certified (domestic) orthopaedic surgeon
- Board certified (foreign or international) orthopaedic surgeon
- Other (Please specify):

42- Is completing a fellowship program mandatory to practice in the field of a subspecialty?

- Yes
- No

43- Are fellowship positions paid?

- Yes
- No
- Depends on the institution

44- What is the duration of fellowship training?

- Less than one year
- One year
- Two years
- Other (Please specify:)

45- Is there a proper curriculum for the fellowship programs?

- Yes, for all available subspecialties
- Yes, for some of the available subspecialties
- No

(If no, please proceed to question 47)

46- Is the curriculum same for the whole country or it varies from place to place?

- Same nationwide
- It is developed by institutions and every institution has its own curriculum

47- Is there an exit exam for the fellowships?

- Yes
- No

48- Does research make a mandatory part of the fellowship?

- Yes (Please specify.....)
- No

E. CME (Continuing Medical Education)

49- Is there any credit system in use to track the educational activities of physicians after completion of residency?

- Yes
- No

50- How often is the national orthopaedic congress organized?

- Annual (Each year)
- Biennial (In every two years)
- Other (Please specify.....)

51- How often are the subspecialty congresses organized?

- Arthroplasty (Hip & Knee) (Please specify.....)
- Deformity (Please specify.....)
- Foot and Ankle (Please specify.....)
- Hand Surgery (Please specify.....)
- Oncology (Please specify.....)
- Pediatric Orthopaedics (Please specify.....)
- Shoulder and Elbow Surgery (Please specify.....)
- Spine (Please specify.....)
- Sports Medicine (Please specify.....)
- Trauma (Please specify.....)
- Other (Please specify.....)

52- Is there a core educational course program suggested by national orthopaedic association?

- Yes (Please specify.....)
- No

Thanks for completing the survey.

Please feel free to add any point you deem important about orthopedic education and training in your country which you would like to be included in the final report.