

Application of medical ultrasound imaging for bone fracture diagnostics in general practice

Attention: We kindly ask you to answer all questions in this form completely. Thank you!

Personal details:

Age: < 30 years 30 – 40 years 40 – 50 years 50 – 60 years > 60 years
Sex: female male

In which university did you finish your medicine studies? _____

Highest academic degree: state examination diploma doctorate habilitation

Acquired specializations (please name all and the year of acquisition):

Specialist for _____, since: _____ (year)

Specialist for _____, since: _____ (year)

Acquired special designations (please name all and the year of acquisition):

Designation for _____, since: _____ (year)

Designation for _____, since: _____ (year)

Designation for _____, since: _____ (year)

Memberships: DEGAM SGAM Hausärzterverband none

When did you acquire your latest certificate of advanced education? ____ (year) I never acquired one.

Practice type: employed since: _____ licensed since: _____

Office details:

Office type: single practice joint practice medical care unit

How would you describe the area where most of your patients come from?

major city small-town rural area

Distance to the next hospital (driving minutes by car from office): _____ min.

Distance to the next radiologist (driving minutes by car from office): _____ min.

Distance to the next surgeon (driving minutes by car from office): _____ min.

Application of medical ultrasound imaging in the office:

Do you own a sonographic device? yes no

In case you own a device, who is the main user? myself others

In case you own a device, how many examinations are performed in an average week?

About _____ examinations

In case you own a device, which organs or structures are most frequently examined?

(multiple selection is possible):

- thyroid gland upper abdomen vessels
 kidneys / urinary tracts heart (TTE) joints
 bone structures others: _____

Epidemiology:

How many patients with potential bone fractures after a trauma do you examine?

_____ x / month if less than 1 x / month: _____ / year

While diagnosing potential bone fractures, I feel:

- insecure rather insecure rather confident confident

I consider the diagnostic process to rule out potential bone fractures as:

- very inconvenient rather inconvenient rather convenient convenient

Please turn over!

Topic assessment:

I am interested in the topic of ultrasonographic imaging for the diagnosis of potential bone injuries.

- not true rather not true rather true true

I think that the application of ultrasonographic imaging for the diagnosis of potential bone injuries may be relevant for my practice.

- not true rather not true rather true true

I think that ultrasonographic imaging for the diagnosis of potential bone injuries can be helpful.

- not true rather not true rather true true

I think that ultrasonographic imaging for the diagnosis of potential bone injuries can simplify medical care.

- not true rather not true rather true true

I think that ultrasonographic imaging for the diagnosis of potential bone injuries makes medical care more efficient.

- not true rather not true rather true true

I think that ultrasonographic imaging for the diagnosis of potential bone injuries is inferior to conventional X-ray.

- not true rather not true rather true true

I already heard about the application of ultrasonographic imaging for the diagnosis of potential bone injuries.

- not true rather not true rather true true

I already thought about the application of ultrasonographic imaging for the diagnosis of potential bone injuries.

- not true rather not true rather true true

I already used ultrasonographic imaging for the diagnosis of potential bone injuries.

- not true rather not true rather true true

Referral criteria:

If a bone fracture seems **likely**, where will you refer to?

- radiologist general surgeon emergency department

If a bone fracture seems rather **unlikely**, where will you refer to?

- radiologist general surgeon emergency department no referral

If a bone fracture seems rather **unlikely**, how secure do you feel about the decision against further diagnostics:

- insecure rather insecure rather confident confident

Do you discuss the likelihood of a bone fracture together with the patient (and his/her relatives)?

- no, never no, usually yes, usually yes, always

Do you decide about further diagnostics together with the patient (and his/her relatives)?

- no, never no, usually yes, usually yes, always

How important are the following criteria for the decision making process of a referral concerning posttraumatic imaging to you?

- | | | | | |
|----------------------------------|----------------------------------|---|--|---------------------------------|
| anamnesis | <input type="radio"/> irrelevant | <input type="radio"/> rather irrelevant | <input type="radio"/> rather important | <input type="radio"/> important |
| pain | <input type="radio"/> irrelevant | <input type="radio"/> rather irrelevant | <input type="radio"/> rather important | <input type="radio"/> important |
| swelling | <input type="radio"/> irrelevant | <input type="radio"/> rather irrelevant | <input type="radio"/> rather important | <input type="radio"/> important |
| haematoma | <input type="radio"/> irrelevant | <input type="radio"/> rather irrelevant | <input type="radio"/> rather important | <input type="radio"/> important |
| functio laesa | <input type="radio"/> irrelevant | <input type="radio"/> rather irrelevant | <input type="radio"/> rather important | <input type="radio"/> important |
| persistant afflictions | <input type="radio"/> irrelevant | <input type="radio"/> rather irrelevant | <input type="radio"/> rather important | <input type="radio"/> important |
| own instincts | <input type="radio"/> irrelevant | <input type="radio"/> rather irrelevant | <input type="radio"/> rather important | <input type="radio"/> important |
| scores / clinical decision tools | <input type="radio"/> irrelevant | <input type="radio"/> rather irrelevant | <input type="radio"/> rather important | <input type="radio"/> important |

Which of the following clinical scores for the assessment of potential bone fractures do you know?
(multiple selection is possible)

- | | | | |
|---|---|---|-----------------------------|
| <input type="radio"/> Neer Score | <input type="radio"/> Score by Weseley et al. | <input type="radio"/> Score by Solgaard | <input type="radio"/> other |
| <input type="radio"/> Ottawa Ankle Rule | <input type="radio"/> Ottawa Foot Rule | <input type="radio"/> Canadian Cervical Spine Rules | <input type="radio"/> none |
| <input type="radio"/> Ottawa Knee Rule | <input type="radio"/> Pittsburgh Knee Rule | <input type="radio"/> Harris Hip Score | |

Thanks for your support!