

Skulder

Undersøgelse og behandling "Sådan gør jeg"

Palle Holck
Speciallæge i reumatologi og Intern medicin
Idræts- og dykkerlæge
Overlæge, Silkeborg Centralsygehus

1

Palle Holck

Anatomi & biomekanik



4

Palle Holck

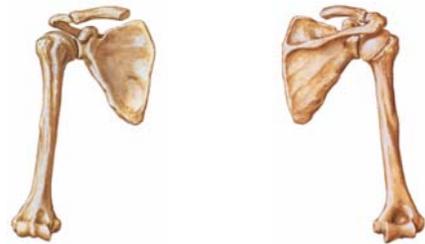
Skulder



2

Palle Holck

Anatomi & biomekanik



5

Palle Holck

Anatomi & biomekanik



3

Palle Holck

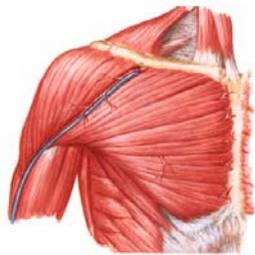
Anatomi & biomekanik



6

Palle Holck

Anatomi & biomekanik



7

Palle Holck

Anatomi & biomekanik



10

Palle Holck

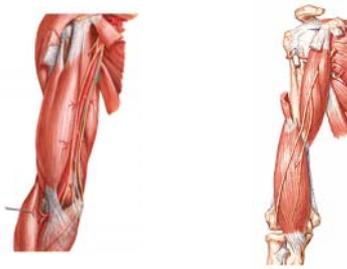
Anatomi & biomekanik



8

Palle Holck

Anatomi & biomekanik



11

Palle Holck

Anatomi & biomekanik



9

Palle Holck

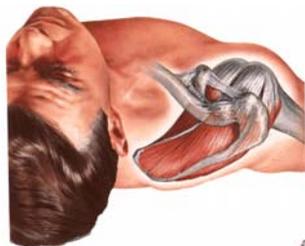
Anatomi & biomekanik



12

Palle Holck

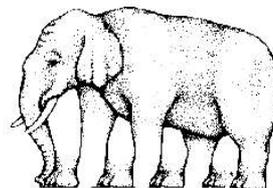
Anatomi & biomekanik



13

Palle Holck

Skader & syndromer



16

Palle Holck

Skulder Undersøgelse.

Hele vejen rundt:

- Art. sternoclaviculare
- Art. acromioclaviculare
- Proc. coracoideus
- Art. glenohumerale
- Tuberculum minor et major
- Tend. bicipitis
- Acromion inkl. bagerste hjørne
- Spinae scapulae
- Margo medialis scapulae
- Angulus inf. scapulae.

14

Palle Holck

Skader & syndromer

- Artikulære
- Ossøse
- Muskulære
- Tendinøse
- Bursae
- Ligamentære
- Kapsulære
- Neurogene

17

Palle Holck

Skader & syndromer



15

Palle Holck

Skader & syndromer



- Den farlige
- Den akutte
-

18

Palle Holck

Skader & syndromer



25

Palle Holck

Skader & syndromer

Artikulære (generelt)

Lokalisation

Aktiv vs passiv bevægelighed

Blokade

- Artikulære
- Ossøse
- Muskulære
- Tendinose
- Bursae
- Ligamenter
- Kapsulære
- Neurogene

28

Palle Holck

Skader & syndromer



26

Palle Holck

Skader & syndromer

Ossøse

Fraktur

Tumor

- Artikulære
- Ossøse
- Muskulære
- Tendinose
- Bursae
- Ligamenter
- Kapsulære
- Neurogene

29

Palle Holck

Skader & syndromer

Artikulære

Subluksation / luksation

Labrum læsion

Artrose

Art. acromioclaviculare

Art. gleno-humerale

Artrit

Reumatoid artrit

Psoriasis

Mb. Tietze

- Artikulære
- Ossøse
- Muskulære
- Tendinose
- Bursae
- Ligamenter
- Kapsulære
- Neurogene

27

Palle Holck

Skader & syndromer

Muskulære (generelt)

Smerte

- Palpation
- Aktivering
- Udspænding

- Artikulære
- Ossøse
- Muskulære
- Tendinose
- Bursae
- Ligamenter
- Kapsulære
- Neurogene

30

Palle Holck

Skader & syndromer

Muskulære

Triggerpunkter

Et hyperirritabelt fokus i en muskel, som foruden lokal omhed kan være årsag til meddelt/forskudt smerte

- m. supraspinatus
- m. infraspinatus
- m. subscapularis
- m. teres minor
- m. levator

- Artikulære
- Ossøse
- Muskulære
- Tendinose
- Bursae
- Ligamenter
- Kapsulære
- Artikulære
- Neurogene

31

Palle Holck

Skader & syndromer

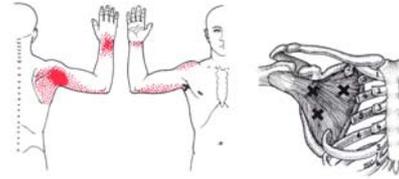


Figure 26.1. Referred pain pattern projected from two lateral trigger points and a more medial trigger area (X) in the right subscapularis muscle. The essential referred pain zone is solid red; the splinter zone is stippled red. Portions of the second through the fifth ribs have been removed for clarity.

34

Palle Holck

Skader & syndromer

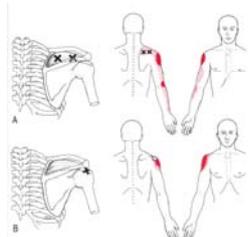


Figure 26.2. Referred pain patterns (essential and splinter zones) for the right trapezius muscle. The essential referred pain zone is solid red; the splinter zone is stippled red. Portions of the second through the fifth ribs have been removed for clarity. The lower X is the location of the trigger point.

32

Palle Holck

Skader & syndromer

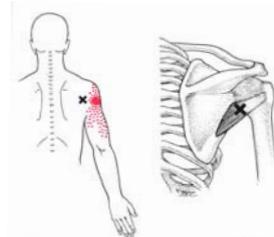


Figure 26.3. Referred pain pattern (essential zone solid red, splinter zone stippled red) of a trigger point (X) in the right trapezius muscle. The essential referred pain zone is solid red; the splinter zone is stippled red. Portions of the second through the fifth ribs have been removed for clarity.

35

Palle Holck

Skader & syndromer

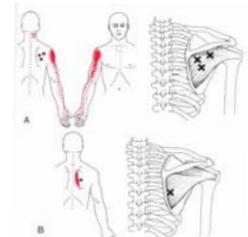


Figure 26.4. Consolidated referred pain pattern for trigger point regions (X) of the right trapezius muscle. The essential pain pattern is solid red, and the splinter pattern is stippled red. The upper X outlines 50% in the midportion of the muscle (when overworked). The lower X locates the much more dense trigger area (contracture commonly found near the origin of the muscle's scapular attachment, which also is embryologically secondary to fast band lesion associated with this 50%.

33

Palle Holck

Skader & syndromer

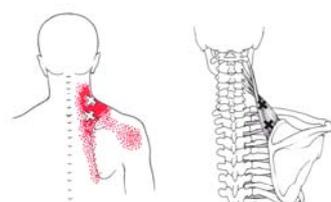
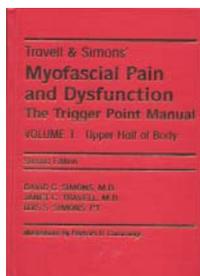


Figure 26.5. Consolidated referred pain pattern for trigger point regions (X) of the right trapezius muscle. The essential pain pattern is solid red, and the splinter pattern is stippled red. The upper X outlines 50% in the midportion of the muscle (when overworked). The lower X locates the much more dense trigger area (contracture commonly found near the origin of the muscle's scapular attachment, which also is embryologically secondary to fast band lesion associated with this 50%.

36

Palle Holck

Skader & syndromer



37

Palle Holck

Skader & syndromer

Ligamentære

Ligamentose / ruptur

- Lig. coracohumerale
- Lig. glenohumerale
- Lig. coracoclaviculare / -acromiale

- Artikulære
- Ossese
- Muskulære
- Tendinøse
- Bursae
- Ligamentære
- Kapsulære
- Neurogene

40

Palle Holck

Skader & syndromer

Tendinøse

Tendinitis / ruptur

- Rotator cuff / supraspinatus
- Caput long. bicipitis

Tendinitis calcarea

Tendovaginitis

- Caput long. bicipitis

Impingement syndrom

- Artikulære
- Ossese
- Muskulære
- Tendinøse
- Bursae
- Ligamentære
- Kapsulære
- Neurogene

38

Palle Holck

Skader & syndromer

Kapsulære

Distorsion

Ruptur

Periartrosis humeroscapularis

- Artikulære
- Ossese
- Muskulære
- Tendinøse
- Bursae
- Ligamentære
- Kapsulære
- Neurogene

41

Palle Holck

Skader & syndromer

Bursae

Bursitis

- Subacromialis
- Subdeltoidea

Bursitis calcarea

- Artikulære
- Ossese
- Muskulære
- Tendinøse
- Bursae
- Ligamentære
- Kapsulære
- Neurogene

39

Palle Holck

Skader & syndromer

Neurogene

Cervical rodaffektion

Perifer nervekompression

- Scaleneus ant.
- Pectoralis minor
- Costa cervicalis

- Artikulære
- Ossese
- Muskulære
- Tendinøse
- Bursae
- Ligamentære
- Kapsulære
- Neurogene

42

Palle Holck

Ultralydscanning



43

Palle Holck

Ultralydscanning



46

Palle Holck

Ultralydscanning



44

Palle Holck

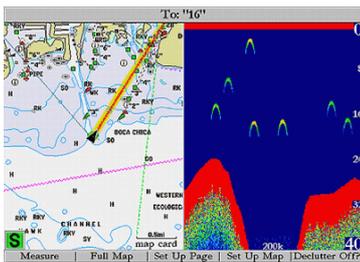
Ultralydscanning



47

Palle Holck

Ultralydscanning



45

Palle Holck

Ultralydscanning

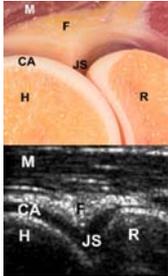


48

Palle Holck

Ultralydscanning

Strukturer



- Sener og ledbånd
- Muskler
- Nerver
- Knogler
- Underhud (fedt)
- Led

49

Palle Holck

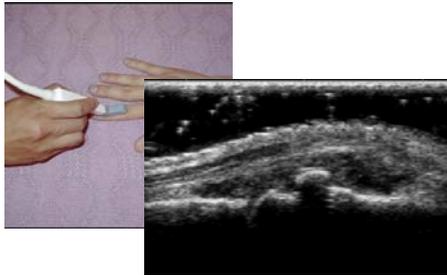


52

Palle Holck

Ultralydscanning

Dynamik



50

Palle Holck

Ultralydscanning



51

Palle Holck