Introduction

Methodology

Ultasound imaging generates a depiction of anatomical structures through real-time visual feedback using tissue interface reflections (Henry &Westerveld; 2005). Diagnostic ultasound (DUS) is increasingly Results

Introduction

This research aims to bridge the gap in our understanding by investigating the internator reliability of both licensed physical therapists (PTs) and student physical therapists (SPTs) when employing degrostic ultrascound to identify healthy soft tissue structures. By shedding light on the reliability of degrostic ultrascound (DUS) in the hards of these health care professionals, this study seels to contribute valueble insights that may enhance the diagnostic capabilities and confidence of physical therapists in assessing musculoskeletal tissues and ultimately improve patient care.

Methodology

22 healthy participants (9 females, 13 males, meanage of 266 years) with no recent right lower extremity injuries were included

4 participants were excluded for not meeting inclusion criteria Measurements were taken with the patient

in a supine position with the knee at 25° of flexion except calcaneus with the ankle in resting position in prone. Percent agreement was calculated for each structure among experienced PTs, SPTs, and across all four raters. Results

PIs and SPIs can use diagnostic ultrasound to identify anatomical structures. Useful for identifying pathology and planning patient care. More research meeds to be conducted on integr

PTs and SPTs are capable of using diagnostic ultrasound to identify anatomical structures. This can be used to identify pathologic tissue to help guide their treatment interventions and plan of care.

Introduction

Diagnostic ultrasound (DUS) has evolved into a versatile and indispensable resource for real-time visualization of nerves, muscles, joints, and various anatomical features [5]. It has found widespread applications across diverse medical specialities, including chrical gynecology, cardiology, theumatology, and radiology [6].

This research aims to bridge this gap in curunderstanding by investigating the internate meliability of both licensed physical threapists and SPIs when employing degrootic ultrasound to identify healthy soft tissue structures. By shedding light on the neliability of DUS in the hands of these health care professionals, this study seeks to contribute valuable insights that may enhance the degrootic capabilities and confidence of physical threapists in assessing musculos ledetal tissues and ultimately in prove patient care.

Methodology

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VS can Air Ultasound puche used by raters to identify the 9 structures (the inferior pole of the patella, tibial tuberosity, calcaneus, medial and lateral knee joint lines, medial and lateral fermual combles, the medial tibial platerar, and the fibular head).

Stuctures measured with the patient in supine and large in 25° of flexion, except the calcaneus which was in prone with ankle innesting position. Percent agreement was calculated for each structure between the experienced PTs, the SPTs, and across all four rates.

DUS Structure Identification by PIS 200 SPTS

Data

DUS Structure Identification for all 4 Raters

Results

The licensedPIs sinilally identified the thiad tuberosity, medial joint line, medial fermual comble, medial thiad plateau, and the calcaneus for all participants. Of the four remaining structures, the PIs identified the inferior pole of the patella, the fluck-head, and the lateral joint line sinilarly in 95.2% of the participants, and the lateral fermual comble in 77.3% of the participants. The SPIs agreed on all structures in more than 90% of the participants. The experienced PIs and the SPIs identified sinilar structures as being the calcaneus and the medial large structures in 100% of the participants. The four attens sinilarly identified all remaining structures in greater than 850% of the participants, except for the lateral fermual comble, 71.4%

Conclusion

PEs and SPEs are capable of using diagnostic ultrasound to identify anatomical structures. This can be used to identify pathologic tissue to help guide their treatment interventions and planof care for future patients.

Mue researchneeds to be conducted on internator reliability diagnostic ultrasound measurements between PTs and SPTs on different anatomical structures.

Physical Therapists and Student Physical Therapists' Ability to Identify Similar Structures using Diagnostic Ultrasound Imaging

Stephanie Deering, Corey Borromeo, Emilyn Angelica Simon, Darren Dinh, Glenn Manapat, Christina Gomez, Jeremiah Samson







Introduction

In the realmof medical diagnostics, the introduction of vikascurulas a tool for identifying anatomical structures maleed a significant milestone in 1942 when a neurologist first employed it to detect havin turnus [6]. Since then, diagnostic vikascurul (DLS) Ints excited into a vessatile and indispensable seconce for reals time visualization of news, medes, joints, and various anatomical features [5]. It has found with special applications across diverse medical specialities, including chical geneeidage, cardiology, incumitology, and including [6]. In the context of military physical through, where practitiones Methodology

Results