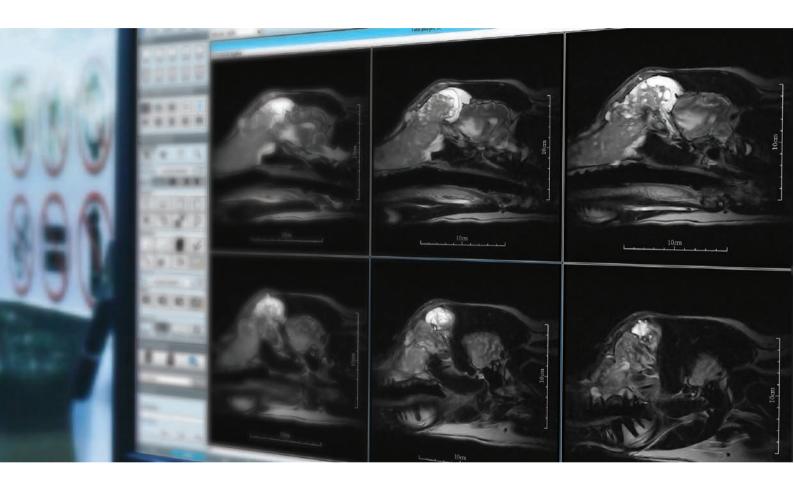




PANION PREMIER Features





Strongest Gradients - 33 mT/m and upgradable to 44 mT/m for ultra-high quality scans.



Ultra high resolution for precise diagnosis."

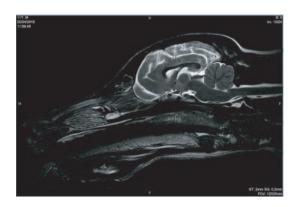


Widest Range of Clinical Applications including: ce-MRA, DIXON Fat & Water Separation, DWI & ADC map.

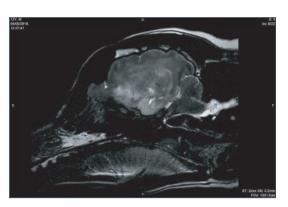


PRODIVA drives user-friendly clinical workflows during patient set-up, scanning and data management.

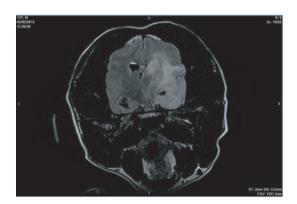
Clinical Images



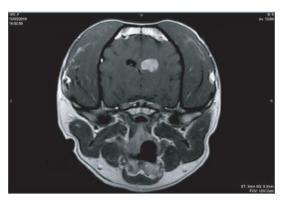
Brain T2 FSE Sagittal



Brain T2 Sagittal



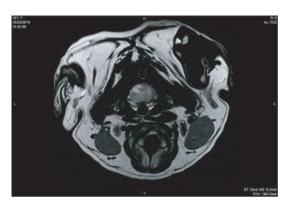
Brain FLAIR Axial



Brain T1 FSE Axial Post Contrast



C-Spine T2 FSE Sagittal

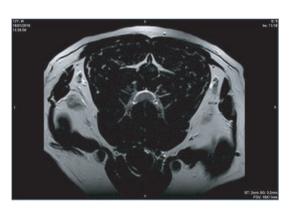


C-Spine T2 FSE Axial

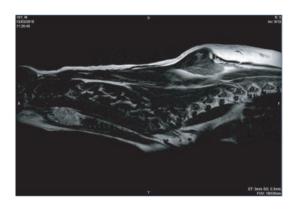
Clinical Images



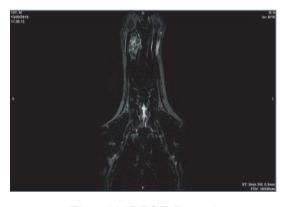
C-Spine T2 FSE Sagittal



C-Spine T2 FSE Axial



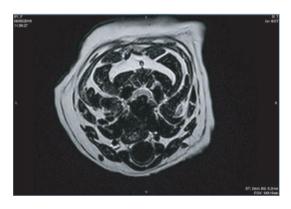
Thyroid T2 FSE Sagittal



Thyroid IRFSE Dorsal



C-Spine T2 FSE Sagittal



C-Spine T2 FSE Axial

Clinical Images





Arthropoda Selecta 28(2): 247-251

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Magnetic resonance imaging of the live tri-spine horseshoe crab (Tachypleus tridentatus)

Изучение анатомии живого мечехвоста Tachypleus tridentatus при помощи магнитного резонанса

Adams Hei Long Yuen^{1,*}, Derek Hang Chun Kwok², Sang Wha Kim³ А.Х.А. Юэн^{1,*}, Д.Х.Ч. Квок², С.В. Ким³

- stic Radiology and Clinical Oncology, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Pokfulam,
- Department of Diagnostic Radiology and Clinical Oncology, Li Ka Shing racenty of retaining the Conversion of Conversion of

KEY WORDS: imaging anatomy; magnetic resonance imaging; tri-spine horseshoe crab. КЛЮЧЕВЫЕ СЛОВА: анатомия, магнитный резонанс, мечехвост Tachypleus tridentatus.

ABSTRACT. Tri-spine horseshoe crab (Tachypleus tridentatus) is one of the most extensively studied ar-thropods from both biological and paleontological per-spectives due to its unique suite of anatomical features and as a useful modern analogue for fossil arthropod groups. To assist the study and documentation of this iconic taxon, thorough understanding of their anatomy is necessary. Traditional dissection approach to stud-the anatomy of tri-spine horseshoe crab is technically demanding and time-consuming, and causes loss of specimen integrity. Magnetic resonance imaging (MRI) have currently become more readily available for zoo-morphological investigation. A growing body of digi-tally stored anatomical data has become available to assist with biological, morphological and pathological investigation, without destroying specimens. The ob-jective of the present study is to provide an overview of the normal cross-sectional anatomy of the live tri-spine. jective of the present study is to provide an overview of the normal cross-sectional anatomy of the live tri-spine horseshoe craft basing TIW and T2W MRL, along with dissection images. MRL scan of all king tri-spine horseshoe crabs were performed by 1.5T MRI scanner. The resulting images provided excellent detail of major anatomical structures of live tri-spine horseshoe crabs. The illustrations in the present study provides an initial reference to evaluate anatomical structures of the tri-spine horseshoe crab on MR images.

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live tri-spine horseshoe crab (*Tachypleus tridentatus*) // Arthropoda Selecta, Vol.28, No.2, P.247–251, doi: 10,15298/arthsel. 28,2.06

PEЗЮМЕ, Благодаря уникальному набору ана-мических особенностей и надичием современных аналогий вымершим группам артропод мечех-вост Tachypleus tridentatus — одно из наиболее интенсивно исследованных членистоногих, как с био-

оване, мечехвост Tachopleus tridentatus.

догической, так и с падеонтологической точки зрения. Для лучшего понимания этого таксона-иконы
необходимо детальное исследование его англомии.
Традиционный анатомический годход, связанный
г расумененыем объекта, технически этуруднителен и занимаст много времени, при потере целостлен и занимаст много времени, при потере целостнитый регодана. В настоящее время для зоморфологических исследований все чаше применяют матнитный регодание (МР). Расутций объем опифрованных анатомических данных доступен для биологических, морфологических и патологических
исследований, которые можно проводить без разрушения объектов. Цель настоящей работы — на
серии последовательных срезов дать обтор анатомин живого мечехвоста, пелодъзуя ТІМ и Т2М
МР-тобораження в сравнении с обычными срезьми. МР-сканирование 4 живых мечехвостов быдо
выполнено при помощи 1,5Т МР-сканор. Совмешенные изображения показывают точные детали
позводяют дать первые оценки качества МР-изображения этого членистоногого.

Introduction

Introduction

Tri-spine horseshoe crab (Tachypleus tridentatus (Leach, 1819)) is one of the most extensively studied arthropods from both biological and paleomtological perspectives due to its unique suite of anatomical features and as a useful modern analogue for fossil arthropod groups. To assist the study and documentation of this iconic taxon, thorough understanding of their anatomical research.

this is concerned, more understanding or their activities only is necessary.

The internal and external anatomical structures of euthanized or died horseshoe erab were studied repeatedly since nintecenth centuries and are regularly depicted in scientific literatures using dissection approach

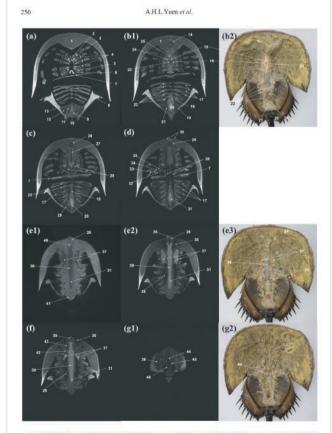


Fig. 2. Coronal MR images and corresponding dissection images of *Tachyplens tridentatus* at different levels of Figure 1: (a) T2W image at level 1: (b) T2W image (c) 1 and corresponding dissection image (b2) at level 2: (c) T2W image at level 3: (d) T2W image at level 4: (e) T1W image (e) 1 T2W image (e2) and corresponding dissection image (c2) at level 5: (f) T2W image at level 6: (g) T2W image at level 3: (d) T2W image at level 6: (g) T2W image (g1) and corresponding dissection image (g2) at level 7.



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Time Medical Shanghai

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