

安克生醫股份有限公司 AmCad BioMed Corporation 2024年度法人說明會

李伊俐 董事長暨總經理 2024/9/13



免責聲明

- 除了過去資料外,本次說明會所列事項若為前瞻性看法,此前瞻性看法可能受重大風險和不確定性因素影響而與實際結果有所差異。
- 本簡報中對於未來之展望,係反應本公司截至目前為止對於未來的看法。 對於這些看法,倘若未來有因任何事件或環境變遷,本公司並不負有更新 資料之責任。
- 未經本公司許可的情況下,不可複製、修改、重新編譯、刪減或傳送本簡報任何內容或將任何該等內容用於商業用途。
- 本簡報內容包含所有歸屬於合併報表之個體。

公司基本資料



Pioneering Ultrasound Al

Helping physicians diagnose confidently and efficiently

第一個獲美國FDA核准超音波電腦輔助診斷(CAD)醫材公司。以世界領先技術結合人工智慧(AI) 及醫師專業,將持續針對未被滿足的臨床需求,提供最佳解決方案扮演智慧醫療影像的領航者

設立時間

2008年12月

主要業務

高階醫材研發、製造及銷售

實收資本額

新台幣 6.3億元

轉投資子公司

聲博科技股份有限公司

負責人

李伊俐

員工人數

76人

已上市產品



安克甲狀偵 MCADUT 安克呼止偵 McADUO

法規認證









AmCad BioMed Corporation

5F., No. 167, Fuxing N. Rd., Songshan Dist., Taipei City 105403, Taiwan (R.O.C.) SRN: TW-MF-000013445

has been assessed and certified as meeting the requirements of

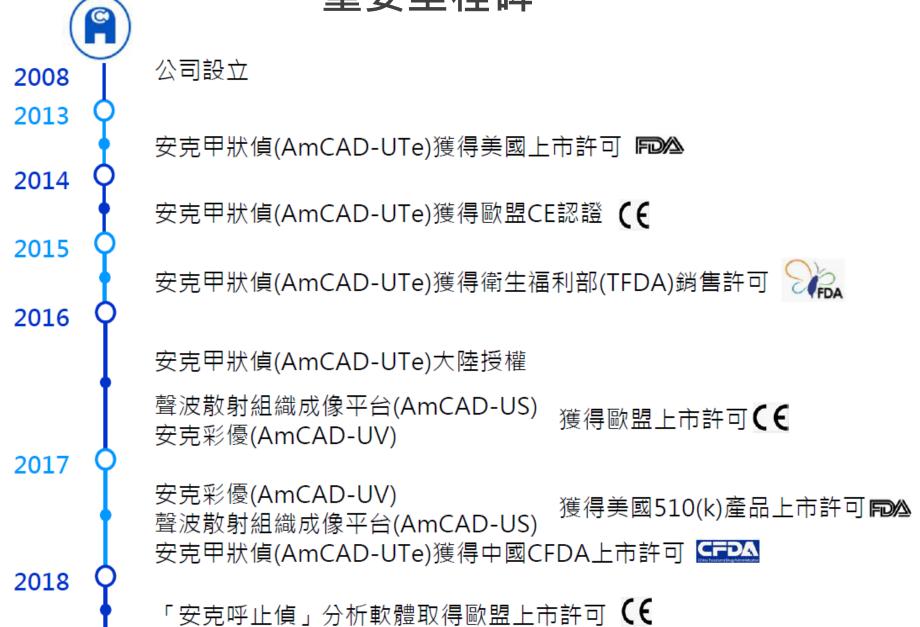
MDR EU Quality Management System certificate (Annex IX QMS)

For the following products Class IIa - MDA0315, MDS1009

^{*}CAD = Computer-Aided Detection

重要里程碑





重要里程碑





2024年與美國太平洋大學(UOP)牙醫學院簽署的合作研究及安克呼止偵®授權協定,研究數據共享、泰國Walailuk 大學發表研究驗證安克呼止偵在牙科OSA的應用、瑞士臨床結果驗證使用安克呼止偵篩查HNS治療之有效性。

安克6大產品線:4項已取得美國FDA 510(K)



安克呼止偵 mCADUO

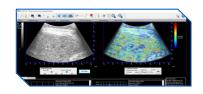
- •標準化及首動化上呼吸道超音波掃描
- 評估睡眠呼吸中止症(OSA)程度
- 美國510(K), 歐盟CE Mark上市許可
- 2024/4取得台北自費醫令碼





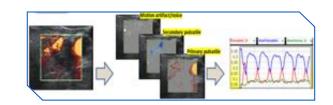
聲波散射組織成像平台

- 美國510(K), 歐盟CE Mark上市許可
- 能辨識不同組織並進行視覺化成像與分析





- 美國510(K), 歐盟CE Mark上市許可
 - 能區別血管脈動訊號與雜訊



MCADUT 安克甲狀偵

- 美國510(K)、歐盟CE Mark、中國CFDA、台灣 TFDA上市許可
- 甲狀腺結節超音波影像風險度評估
- 2024/3/28 健保沙盒送件





- 顯微鏡細胞學影像分析
- 視覺化及量化細胞學臨床特徵



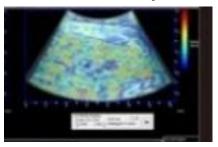


- •即時乳房超音波AI成像
- 乳腺結節影像風險度評估

專利佈局完整

33項創新發明專利

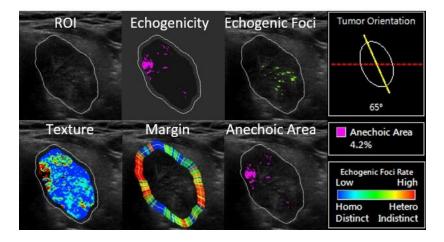
Scatterer Structure Visualization & Ultrasound Echo Analysis



Tumor Contour Retrieval



Multi-Layer Classifier & Echogenicity / Tumor Feature / Echo Texture Quantification



Other Patent Titles	Countries
- Curci i decire i idea	China
	EU
用於頭頸部評估或介入治療的定位裝置/	(Germany)
OSITIONING APPARATUS FOR	Japan
IEAD AND NECK ASSESSMENT OR INTERVENTION	Taiwan
	USA
	China
	EU
乎吸中止症評估方法及其系統/	(Germany)
METHOD ADAPTED TO DIAGNOSE AIRWAY OBSTRUCTION AND SYSTEM	Japan
HEREOF	Taiwan
	USA
	USA
COMPUTER-IMPLEMENTED METHOD FOR PREDICTING THE RISK OF	Taiwan
DBSTRUCTIVE SLEEP APNEA	EU
	Taiwan
	China
利用散射子分布統計量分析超音波回音信號之方法 NALYSIS METHODS OF ULTRASOUND ECHO SIGNALS BASED ON STATISTICS	USA
OF SCATTERER DISTRIBUTIONS	EU
	(Germany)
聲波散射訊號之影像強化方法與成像加速系統 TWI	
MAGE ENHANCEMENT METHOD AND IMAGING ACCELERATION SYSTEM FOR	USA
ILTRASOUND SCATTERER SIGNAL	OSA
US]Acceleration and enhancement methods and system for ultrasound	
catterer structure visualization	
UV]	Taiwan
習音波都卜勒影像之分群、雜訊抑制及視覺化方法	iaivvaii
CLUSTERING, NOISE REDUCTION AND VISUALIZATION METHOD FOR	USA
JLTRASOUND DOPPLER IMAGES	OJA
田胞學影像特徵量化與視覺化方法及系統/	Taiwan
Method and system for quantification and	USA
isualization characteristics of cytology images	03/4





C

產品相關之60篇學術論文,發表於國際知名期刊



Association of Backscattered Ultrasonographic Imaging of the Tongue With Severity of Obstructive Sleep Apnea in Adults. "JAMA Otolaryngology Head & Neck Surgery " 2023, 149(7), 580-586.



Using Standardized
Ultrasound Imaging to
Correlate OSA Severity
with Tongue
Morphology. "Sleep
Medicine" 2024,
Volume 120, 15-21.



Diagnostic
performance of
ultrasound
computer-aided
diagnosis software
... "Ultrasound in
Medicine and
Biology" 47(1),
114-124.



Re-liability of a computer-aided system in the evaluation of indeterminate ultrasound images of thyroid nodules. "ETJ" 21-0023.



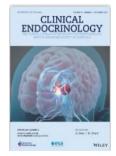
Multi-Reader Multi-Case Study for Performance Evaluation of High-Risk Thyroid Ultrasound...in "Cancers" 2022, 12(2), 373.



Ultrasound
Backscatter
Envelope
Statistics
Parametric
Imaging for Liver
Fibrosis in
"Ultrasonic
Imaging" Volum
42, Issue 2



Computer-aided diagnosis system of thyroid nodules ultrasonographyin "Medicine" 99(23), e20634.



Differences in the ultrasonographic appearance of thyroid nodules after radiofrequency ablation in "Clinical Endocrinology" Volume 95, Issue 3



↑創新醫材產品發展藍圖



臨床標準、指引、SOP

政府/私人保險給付

獲得臨床認可及指定的醫療診治碼

醫療器材認證 Ⅰ類、Ⅱ類 (510K)、Ⅲ類 (上市前許可)

原型機(人體測試、病患測試、臨床研究)

工程模型/研究系統

科學發現/基礎研究

● 安克己取得醫材法規認證、自費醫令碼,

安克甲狀偵

▶健保送件

安克呼止偵

- ▶ 通過KFDA認證
- ▶準備申請歐洲給付保險碼
- 持續進駐國內各大醫院、健診/牙醫通路
- 與國內外知名教學醫院執行上市後臨床研究收案及論文發表,擴大產品運用
- 並透過國際展會、學術展及網路行銷推廣累積產品的知名度

商業模式





Use our expertise in developing product according to our strategic partners' needs/specifications.



Distribution

Leasing

Revenue Sharing Outright Sales

Subscription

Exclusive or regional rights, single & multi-product deals.



Collaborative Marketing

Collaborate with enterprise imaging solutions providers to expand market access.



重要進展

現金增資案6/7正式生效

- ▶ 安克113年現金增資案6/7正式 生效
- ▶ 7/23募足資金2.3億
- ▶ 安克呼止偵雷射定位儀的供應 商帆宣系統科技(股)公司投資 安克現增成為緊密的策略合作 夥伴。



檔 號:

金融監督管理委員會 函

地址:22041新北市板橋區縣民大道2段7號1

8樓

承辦人:黃小姐

電話:02-87735100分機7176

受文者:安克生醫股份有限公司(代表人李伊俐女士)

發文日期:中華民國113年6月7日

發文字號:金管證發字第1130343354號

速別:普通作

密等及解密條件或保密期限:

附件:

主旨:貴公司申報以現金增資發行普通股10,000,000股,每股面額10元,總額新臺幣100,000,000元一案,依「發行人募集與發行有價證券處理準則」第13條第1項規定,自113年6月7日申報生效,請查照。

說明:

- 一、依據貴公司113年5月10日發行新股申報書辦理。
- 二、請依照下列規定辦理:
 - (一)依照公司法第273條第2項之規定,至本會指定之資訊申報網站辦理公告。
 - (二)依照證券交易法第31條第1項之規定,向認股人交付公開說明書;並將修正後公開說明書定本以電子檔案方式上傳至本會指定之資訊申報網站。
 - (三)依照證券交易法第34條第1項之規定,於限期內交付股票,並於交付前至本會指定之資訊申報網站辦理公告。
 - (四)請於實際發行價格確定後,至本會指定之資訊申報網站 辦理輸入實際發行計畫,並修正公開說明書相關內容。





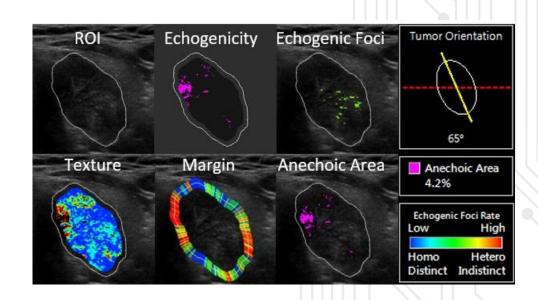


核心主力產品介紹: Amcaput 安克甲狀偵® (FDA、CE、CFDA)

安克甲狀偵®產品特色

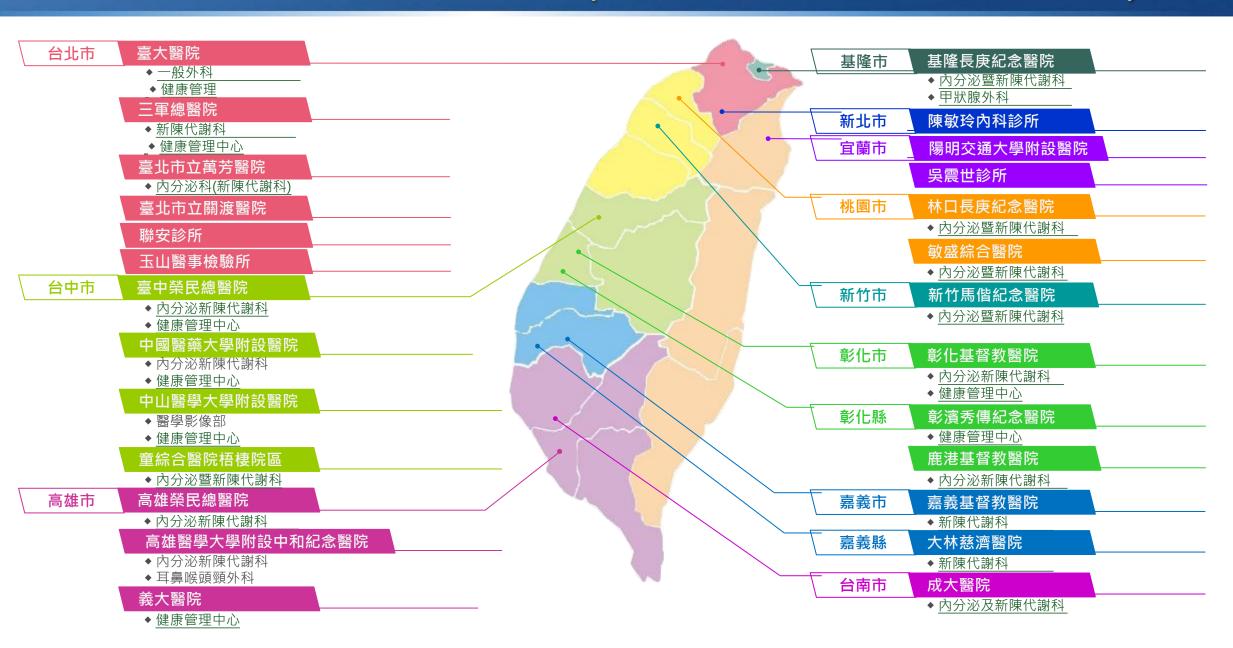
- 準確性高達9成以上,實現一致性自動結節分析
- 內建8個國際TI-RADS指南的風險評分
- 專利結節量化 &視覺化特徵分析
- 多平台相容性,減少人為疏失,即現AI導引







安克甲狀偵®醫療院所一覽表(全省已超過30家醫療院所採用)



AmCAD-UT 申請健保給付



- ▶ 藉由AmCAD-UT甲狀腺結節超 音波智能分析技術,減少健保 支出成本。
- ▶ 2024年底前CDE會出HTA報告, 並於11月召開共擬會議。

全民健康保險醫療服務給付項目及支付標準 之新增診療項目建議

檢附文件(請勾選)

- ■建議單位與其他相關單位專家、團體之連繫資訊(表 001)
- ■新增診療項目建議表(表 002)
- ■診療項目成本分析表(表 003-1)
- 作業流程(表 003-2)
- □須搭配使用之藥品、特殊材料或診療項目(表 003-3)
- □執行診療項目相關醫事人員資格暨設備資料 (醫療院所申請必備文件)(表 003-4)

□其他

表格填寫相關疑義請洽: 醫務管理組支付標準科 (02)2706-5866 分機 2654、2632、2637

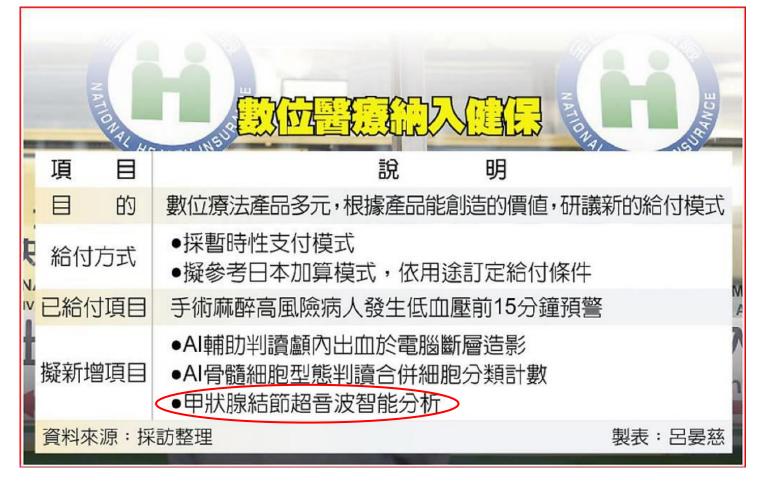


AI輔助診斷工具 擬納健保

石崇良:採暫時性支付模式,年底完成成本效益分析,作為未來數位醫療給付參考

2024.08.27 / 03:00 / 工商時報 呂晏慈 🕹





AmCAD-UT 安克甲狀偵 2024



國內銷售策略

- ✓ 月結轉批次
 - ❤ 健檢訂閱

健保署HTA

國內市場策略

- 健檢中心訂閱
- UT簡易報告版訂閱方案(市場區隔)
- 臨床深耕:內分泌科
- 擴科: ENT/放射科/家醫科/一般外科
- 超音波廠商合作
 - 醫院搭售策略
 - 診所搭售策略,與Handheld超音波探頭廠商合作
- 新商機
 - 健保署HTA
 - ATA 2024 new Guidelines
 - UT LiveScan

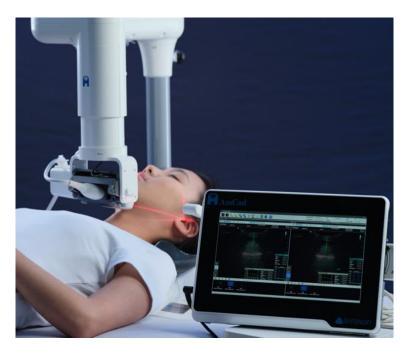






核心主力產品介紹: 🗫 安克呼止偵® (FDA &CE)





😭 🍇 🌭 🔍 🍳 🕍 🚉 🧮 🐽 🚭

安克呼止偵®產品特色

- 快速、免過夜,非侵入式阻塞型呼吸中止症篩檢。
- 準確性高達95%
- 視覺化和量化上呼吸道數據,針對每個病患的獨 特呼吸道形態,制定最佳的個人化治療計劃
- 與帆宣系統合作開發之 雷射定位儀(LAT) -用於定 位頭部和探頭,提供標準化的超音波成像。
- 有助於篩查出牙套& 舌下神經刺激治療中之無效 患者及不適配原因



AmCAD-UO 取得台北市自費醫令碼



➤ 台北市衛生局 UO 自費公文 核定\$4,000



受文者:國立臺灣大學醫學院附設醫院

發文日期:中華民國113年4月16日 發文字號:北市衛醫字第1133110652號

速別:普通件

密等及解密條件或保密期限:

附件: 核定表-國立臺灣大學醫學院附設醫院收費1份 (31232362 1133110652 1 ATTACH1. pdf)

主旨:核定貴院醫療費用收費項目:「上呼吸道超音波定位自動 化掃描與智能分析」1項,請查照。

說明:

- 一、依據貴院113年4月10日校附醫主字第1131200128號函暨臺 北市醫療費用收費標準核定原則辦理。
- 二、旨揭核定項目之核可內容如附件,請揭示於醫療機構及所屬網站,並於櫃檯備置經主管機關核定之紙本收費標準供病人查閱,以供民眾就醫參考及達資訊透明目的。對於是類對象,治療前應充分告知並取得病患同意,以確保其權益。

正本:國立臺灣大學醫學院附設醫院

副本:電2034/03/206文章

與Stanford合作發表安克呼止偵第二篇論文





Sleep Medicine

Volume 120, August 2024, Pages 15-21



前三名睡眠領域 專業期刊

Using standardized ultrasound imaging to correlate OSA severity with tongue morphology

Pien F.N. Bosschieter ^a ♀ ☒, Stanley Y.C. Liu ^a, Pei-Yu Chao ^b ☒, Argon Chen ^c ☒, Clete A. Kushida ^d ♀ ☒

- ^a Department of Otolaryngology, head and Neck Surgery, Stanford University School of Medicine, Stanford, CA, USA
- ^b AmCad BioMed Corporation, Taipei, Taiwan
- ^c Institute of Industrial Engineering, National Taiwan University, Taipei, Taiwan
- Department of Psychiatry & Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, USA

Received 18 March 2024, Revised 21 May 2024, Accepted 28 May 2024, Available online 31 May 2024, Version of Record 5 June 2024.

韓國S1000「安克呼止偵」超音波設備成功註冊



열 람 용

S1000超聲波設備在韓國的註 冊已經順利完成:

1. 產品與分類: S1000的通用 超聲波,型號為UO-50。

2. 進口商: MEK Healthcare

有效期限:認證的有效期至

2029年3月28日。

(업 허가번호 :제 3998호) 구 분 [] 제조 / [v] 수입 [v] 품목 / [] 품목류 명 (제품명, 품목명, 모델함) 집1000 법용 초등파 영상 전단장시 UU-50*** 명상 전변장시 UU-50*** 명상 전변장시 UU-50*** 명상 전변장시 UU-50*** 명상 전략시 보험 제 조 방 법 발청 사 용 목 적 발청 사 용 목 적 발청 사 용 복 적 발청 사 용 방 법 발청 포 장 단 위 발청 포 장 단 위 발청 포 장 단 위 발청 지장방법 및 사용기간 저장방법 : 빨청. 사용기간 : 빨청 시 협 규 격 제 의기심 10-01-20231707-0087 호(2024.03.15)한국산업기술시험원 제조(수입) 업자 정보 제조(수입) 업자 정보 제조(수입) 업자 경보 전 기 간 2024.03.29 ~ 2029.03.28 소 재 지 서울특별시 마포구 모래내로7길 12 . 4층(성산동, MEK발딩(맥빌딩)) 비 고 다 의료기기법」제6조·제15조 및 같은 법 시행 규칙 제6조제2항·제34조에 따라 위 와 같이 인증합니다.	수인 24-168 호			
구 분 [] 제조 / [✓] 수입 [✓] 품목 / [] 품목류 명명 (제품명, 품목명, 모델명) (제품명, 품목명, 모델명) (진단장치, UO-50	<u>o</u>	l료기기 수입 인 증 서		
명 (제품명, 품목명, 모델명)		(업 허가번호 : 제 3998호)		
[제품명, 품목명, 모델명] 전단장치, UO'50 의 문유민호(등급) A26380.01(2) 모양 및 구조 별청 제 조 방법 별청 성 등 별청 사용 목 적 별청 사용 시 주의사항 별청 포 장 단 위 별청 지장방법및 사용기간 저장방법: 별청, 사용기간: 별청 지장방법및 사용기간 저장방법: 별청, 사용기간: 별청 지장방법및 사용기간 저장방법: 별청, 사용기간: 별청 지조(수입)업자 정보 제조(수입)업자: (주)액렉스케어, 서울특별시 마포구 모래내로7길 12 , 4층(성산동, MEK별당(뗵빌딩)) 제조원: 별청 인 중 조 건 없음 유 효 기 간 2024.03.29 ~ 2029.03.28 소 재 지 서울특별시 마포구 모래내로7길 12 , 4층(성산동, MEK벌당(뗵빌딩)) 비 고	구 분	[] 제조 / [✔] 수입 [✔] 품목 / [] 품목류		
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사용 시 주의사항 별첨 포 강 단 위 별첨 저강방법: 별침, 사용기간: 별침 시용기간: 별침 시용기간 저강방법: 별침, 사용기간: 별침 시용기간 대장방법: 별침, 사용기간: 별침 시 험 규 격 제의시심 10·01·20231707·0087 호(2024.03.15)한국산업기술시험원 제조(수입)업자: (주)멕텔스케어, 서울특별시 마포구 모래내로7길 12 , 4종(성산동, MEK별당(예별당)) 제조원: 별침 인 중 조 건 없음 유 효 기 간 2024.03.29 ~ 2029.03.28 소 재 지 서울특별시 마포구 모래내로7길 12 , 4종(성산동, MEK별당(예별당)) 비 고 무리대로7길 12 , 4종(성산동, MEK별당(예별당)) 비 고 무의료기기법, 제6조·제15조 및 같은 법 시행 규칙 제6조제2항·제34조에 따라 위와 같이 인증합니다.	사 용 목 적	벌침 설심		
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제조(수입)업자 정보	저장방법 및 사용기간	저장방법 : 별첨, 사용기간 : 별첨		
제조(수입)업자 정보 4층(성산동, MEK빌딩(엑빌딩)) 제조원: 별첨 인 중 조 건 없음 유 효 기 간 2024.03.29 ~ 2029.03.28 소 개 지 서울특별시 마포구 모래내로7길 12 . 4층(성산동, MEK빌딩(엑빌딩)) 비 고 「의료기기법」제6조·제15조 및 같은 법 시행 규칙 제6조제2항·제34조에 따라 위 와 같이 인증합니다.	시 험 규 격	계 의기심 10-01-20231707-0087 호(2024.03.15.)한국산업기술시험원		
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와 같이 인증합니다. 2024년 03월 29일	비고			

	변경 및	J 처분 사항 등				
년 월 일			Ч	용		
2024-03-29	최초허가					
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1		UO-50			[~]	[•]
	1	포장단위				
일련번호			포장	단위		

	계조원
일 련 번 호	계조익리가
1	AmCad BioMed Corporation(대만, F5., No.167. Fuxing N. Rd., Songshan Dist., Taipei City 105403, Taiwan (R.O.C.), 2F., No.12, Shih 2nd Rd., Yangmei Dist., Taoyuan City 326013, Taiwan, (R.O.C.))
일 련 번 호	제 조 자
1	Teratech Corporation(미국,77-79 Terrace Hall Avenue, Burlington, Massachusetts 01803 USA)

與美國太平洋大學牙醫學院簽訂合作



與美國UOP牙醫學院簽署的合作研究協定,將促進安克呼 止偵在牙科領域的合作研究,並增加在美國市場牙科領域 據點

Collaborative Research and Supply Agreement

This Agreement is made and entered into as of Feb. 29th, 2024 (the "Effective Data") by and between AmCad BioMed Corporation, a corporation with office at 5F., No.167, Fuxing N. Rd., Songshan Dist., Taipei City 105, Taiwan R.O.C (hereinafter referred to as "AmCad") and the University of the Pacific, Arthur A. Dugoni School of Dentistry located at 155 5th St, San Francisco, CA 94103, United States ("UOP"). AmCad and UOP are individually referred to as the "Party"; or collectively referred to as the "Parties".

 Product Definition: The "Product" referred to in this Agreement encompasses the AmCAD-UO solution, which integrates both AmCAD-UO software and the specified accompanying hardware as detailed in the table below:

Item Description	Qty
AmCad-UO computer aided detection (CAD) software	1
Head & Neck Laser Alignment Robotic Arm system	1
Terason uSmart 3200t ultrasound model	1
5C2A Curved probe (for AmCAD-UO application)	1

Scope of Product Use: UOP agrees to use the Product for clinical, teaching, and academic research purposes. This includes incorporating the Product into clinical trials, educational programs, and research studies conducted by UOP.



經濟部創新醫療產品市場准入研發補助計畫



- ▶ 以AmCAD-UO搭配國際臨床 合作,進行睡眠呼吸中止症的 牙科市場導入,藉由睡眠牙套 治療伴隨診療需求,進行產品 的應用開發。
- ▶ 6/17取得審議會通過公文,補助案1,000萬,執行22個月。

安克生醫股份有限公司

本案建議:

- (1) 開發時程: 22 個月。
- (2) 開發計畫總經費新臺幣 22,000 千元,補助款新臺幣 10,000 千元 (占計畫總經費 45%)。
- (3) 經費各科目列支項目說明如下:

◆ 經費彙總表

單位:千元

經費列支項目	專審會建議 總經費	專審會建議 補助款	
1.創新或研究發展人員之人事費			
(1) 創新或研究發展人員	15,555	6,950	
(2) 新時項士(含) 學歷以上之研發人員、國際研發人員	1,700	1,700	
(3) 顧問、專家費	2,545	350	
小計	19,800	9,000	
2.消耗性器材及原材料費	0	0	
3.創新或研究發展設備使用費	2,200	1,000	1
4.創新或研究發展設備維護費	0	0	1
5.無形資產之引進、委託研究或驗證費			1
(1) 無形資產引進費	0	0	
(2) 委託研究費	0	0	
委託研究費-推廣活動	0	0	
(3) 驗證費	0	0	
小 計	0	0	
6. 國內差旅費	0	0	
7. 專利申請費	0	0	
開發總經費	22,000	10,000	1

OSAWELL OSA跨科研討會







• Symposium 研討會: \$6,000

• Symposium 研討會 + Hands-On: **\$10,000**

·早島:8折 (2024/01/15 前報名+繳費)

· 主辦 / 協辦學會會員: 8折

等合主制: TDSMA 中等牙科總統環境醫學會・貝数生技般份有限公司 協制單位: ⑤ TAO中華民國曲領第正學會・⑥ 台灣三維教位牙醫學會 協制養助: ⑤OSAWELL 款投修: Sshape≥ yousmile

台北市信義區松仁路123號-2樓主 GALA DINNER:18:00-21:(





BIO Asia Taiwan 2024亞洲生技大展





國內業務推廣



慈濟醫院牙科部



長庚醫院睡眠醫學會夏季會



臺北醫學大學生技EMBA



國內業務推廣



WOB女董協會





振興醫院ENT



聖保祿健檢中心



嘉義基督教醫院



台北馬偕ENT晨會



開展牙科止鼾牙套市場



- 國內最大連鎖牙科診所Dr. Wells合作
 - 第1個UO跨科合作示範點: 士林**維育牙醫**診所



- 口掃機最大市佔品牌代理商旭達集團旗下OSAWELL公司合作洽談
 - 3/10 OSA跨科研討會中推廣與現場展示UO,增加產品曝光度
 - 台北嶺先牙醫診所
 - 台中雅緹斯牙醫診所



- 大安丰采睡眠醫學美學牙醫聯合診所Dr.BreathE策略合作睡眠照護圈
 - 院長: 北醫教授(原雙和醫院睡眠中心主任)
 - CPAP/舒眠枕銷售合作

士林維育牙醫診所





AmCAD-UO 安克呼止偵 2024



國內銷售策略

雙管齊下

租賃+ 分潤

結合睡眠治

療

國內市場策略

- 健檢中心:醫學中心、高檢查量之區域醫院及健診
- 臨床深耕:
 - 睡眠中心產品介紹
 - 耳鼻喉科、牙醫(睡眠止鼾)、胸腔內科
- 銷售整合
 - UT國內業務團隊合併推廣UO
 - 高階健檢中心UT/UO共同銷售
 - 企業篩檢
 - One Stop Solution/Service
- 睡眠治療相關同業合作
 - 呼吸器廠商
 - 牙套廠商







國際展業

2024年Arab Health展覽會安克產品吸引眾多關注



Arab Health展覽會上展出的AmCAD-UT LiveScan (即時掃描POCUS解決方案)吸引了前所未有的參觀人潮,與會的公司數量超過160家。





與阿聯酋Meridian Healthcare (MHC)簽訂MOU啟動中東業務合作



技術平台利用:針對安克甲狀值 & 安克乳安值產品透過與MHC的合作,利用其在影像代理及多年AI技術平台的豐富經驗,進一步提升對市場需求的理解。

市場反饋:MOU合作將提供AmCAD-UT產品試用,並接受市場的實際反饋,以便優化和改進我們的

產品。

技術整合:未來若成功合作,除產品銷售外,還能增進在國際醫院與PACS的串接整合經驗。



Africa Excon: June 3-7 (客戶攤位)



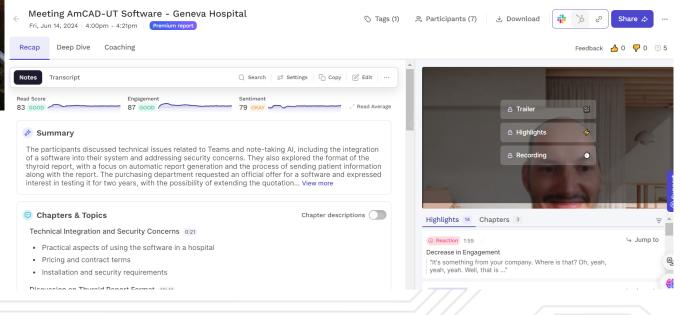
與瑞士日內瓦大學醫院的合作洽談





瑞士日內瓦大學醫院表達了引入 AmCAD-UT 系統的強烈意願,並考慮採用兩年訂閱模式。

預計下半年引入 AmCAD-UT 系統,這是對安克甲狀偵技術的認可,也是進一步拓展歐洲市場的重要步驟。

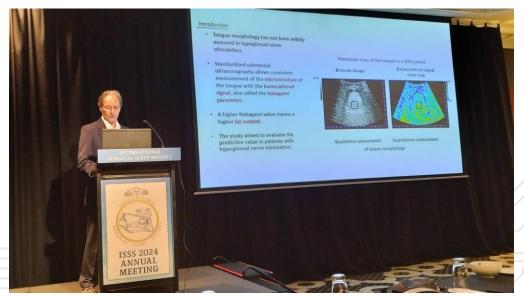


瑞士臨床研究認可「安克呼止偵」:ISSS大會上成果發表



- 利用Backscatter技術能在NHS治療前篩 選出可能受益於Inspire治療的OSA患者, 從而提高治療成功率。
- 2. 「安克呼止偵」Backscatter 技術能在 治療前篩選出有望受益的患者,能顯 著提高NNS治療成功率。





瑞士臨床結果驗證使用安克呼止偵篩查HNS治療之有效性



- 臨床結果發表:瑞士伯恩大學(University of Bern)和
 Kantonsspital Baselland瑞士頭頸外科春季會聯合發表了臨床結果,證實了安克呼止偵能篩查HNS治療有效性。
- 提升產品知名度: 瑞士伯恩大學的聯名發表,增加安克產品知名度和信譽。

YORL

Frühjahrsversammlung 2024 Assemblée de printemps 2024

Pädiatrische ORL: Bewährtes und Neues ORL pédiatrique : bonnes pratiques et nouveautés

13.-14. Juni 2024 | 13-14 juin 2024 Palazzo dei Congressi, Lugano



Predictive Value of Standardized Submental Ultrasonography for Response to Hypoglossal Nerve Stimulation

Samuel Tschopp^{1,2}, Vlado Janjic², Yili Lee³, Argon Chen³, Pei-Yu Chao³, Marco Caversaccio³, Urs Borner⁴, Kurt Tschopp²

Department of Otorhinolaryngology, Head and Neck Surgery, Inselspital, Bern
 Department of Otorhinolaryngology, Head and Neck Surgery, Kantonsspital Baselland, Liestal
 3 AmCAD Biomed, Taipei, Taiwan

Objective

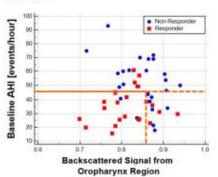
The overall reported hypoglossal nerve stimulation (HNS) response rate for apnea-hypopnea index (AHI) reduction is approximately 60%. The present study alms to evaluate the predictive value of standardized submental ultrasonography.

Methods

We performed ultrasonography in patients with HNS and healthy controls using the AmcAD-UO device. Anatomy of the soft tissue anterior to the upper airway and the tissue morphology using hackscatter ultrasound images were measured. Backscatter imaging relies on scattering of ultrasound waves by tissue inhomogeneities to quantify tissue composition and structure. Responder status for AHI-reduction was defined according to the Sher criteria.

Results

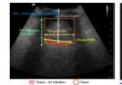
We enrolled 49 patients, of which 22 were responders and 27 were non-responders. In the HNS group, responders and non-responders were comparable in sex and age. However, the initial neck circumference (42.2 vs. 40.4cm), baseline AHI (50.8 vs. 34.7/h), and BMI (28.4 vs. 26.4kg/m2) were significantly higher in non-responders versus responders. The prediction of responders based on baseline AHI alone was 64%. A lower backscatter ultrasound image value, indicating less fat deposition in the tissue, was observed in the responder group. The backscatter ultrasound image from the oropharynx region, combined with baseline AHI, predicted responders with an accuracy of 81% and non-responders with 75% accuracy. When the baseline AHI and hackscatter signal were combined, the area under the curve to predict treatment response to the HNS reached 0.80.



Eacks cattered signal of the oropharyns region and baseline apneshypogenea index (AHI) predict responder to hypoglossal nerve stimulation

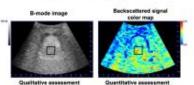


AmCAD ultrasonography with the robotic probe positioning for a standardized exemination of the upper survey.





B-mode ultrasonography of the orophoryex with various anatomical structures marked (left). For reference, an MRI image of the assessed structures levels during standardized ultrasonography



Axial scars of a patient with obstructive sleep apnea and hypoglossal nerve stimulation in B-mode for qualitative assessment and hackscattered signal for quantitative analysis.

Conclusion

The combination of tissue morphology analyzed using standardized submental ultrasonography and patient characteristics is highly predictive for determining the treatment response in patients with HNS.



LINEVERSITÄTSSPTAL EINN Universitätikki für hab. Haunt- und HÖRTRI, UNIVERSITÄTE DE BEREN Obsessionalinaten (HEC), Kopit und Robbitassi

Kantonsspital Baselland Connect with Samuel Tschopp for more details or discussion: samuel.tschopp@insel.ch

泰國Walailuk 大學研究驗證 安克呼止偵在牙科OSA的應用



7 of 19

1 研究發表:《Clinical Medicine 臨床醫學雜誌》上刊登了 Walailuk 大學醫院牙科學院的研究,探討成人頭 顱結構與氣道特徵之間的關係,特別針對高風險OSA患者。

2. 系統應用:研究指出 AmCAD-UO 系統在捕捉詳細氣道圖像方面的能力,對OSA的篩查和治療規劃具有重

要影響。重要影響。

J. Clin. Med. 2024, 13, 3540

J. Clin. Mink 2024, 13, 3540





Artic

Relationship between Cephalometric and Ultrasonic Airway Parameters in Adults with High Risk of Obstructive Sleep Apnea

Anutta Terawatpothong ¹, Chidchanok Sessirisombat ¹, Wish Banhiran ², Hitoshi Hotokezaka ³, Noriaki Yoshida ³ and Irin Sirisoontom ^{1,4}

- Department of Clinical Dentistry, Walailak University International College of Dentistry (WUICD), 87 Ranong 2 Road, Dusit, Banekok 10300. Thailand
- Department of Otorhinolaryngology, Faculty of Medicine Siriraj Hospital, Mahidol University, 2 Wanglang Road, Bangkoknoi, Bangkok 10700, Thailand
- Department of Orthodontics and Dentofacial Orthopedics, Nagasaki University Graduate School of
- Biomedical Sciences, 1-7-1 Sakamoto, Nagasaki 852-8588, Japan
- Correspondence: irin.sirisoontom@gmail.com

Abstract: Background/Objectives: Polysomnography and cephalometry have been used for studying obstructive sleep apnea (OSA) etiology. The association between craniofacial skeleton and OSA severity remains controversial. To study OSA's etiology, cephalometry, fiberoptic pharyngoscopy, polysomnography, and sleep endoscopy have been used; however, airway obstructions cannot be located. Recent research suggested ultrasonography for OSA screening and upper airway obstruction localization. Thus, this study aims to investigate the relationship between specific craniofacial cephalometric and ultrasonic airway parameters in adults at high risk of OSA. Methods: To assess craniofacial structure, lateral cephalograms were taken from thirty-three adults over 18 with a STOP Bang questionnaire score of three or higher and a waist-to-height ratio (WHtR) of 0.5 or higher. Airway parameters were assessed through submental ultrasound. Results: NSBA correlated with tongue base airspace width, while MP-H correlated with oropharynx, tongue base, and epiglottis airspace width, SNA, SNB, and NSBA correlated with tongue width at the oropharynx. At tongue base, ANB and MP-H correlated with tongue width. SNB and NSBA were associated with deep tissue thickness at the oropharynx, while MP-H correlated with superficial tissue thickness at velum and oropharytix. Conclusions: Cephalometric parameters (SNA, SNB, ANB, NSBA, and MP-H) were correlated with ultrasonic parameters in the velum, oropharynx, tongue base, and epiglottis.

Keywords: obstructive sleep apnea; lateral cephalometry; ultrasonography

Sessirisombat, C.; Banhiran, W.; Hodokaz aka, H.; Yoshida, N.; Sirisoontorn, I. Ralationship between Caphalometric and Ultrasonic Arive ay Parameters in Adults with High Risk of Obstructive Skep Apna J. Cltt. Mrd. 2024, 13, 3540. https:// doi.org/10.3390/jcm13123540

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1 Introduction

Obstructive skeep apnea (OSA) is a breathing disorder caused by an upper airway constriction that prevents normal ventilation during skeep [1]. Respiratory effort increases to sustain airflow via a constricted airway, and this is followed by an increase in serum carbon dioxide (hypercarbia) and a drop in serum oxygen (hypoxemia). Cortical arousal is attributed to the increased work of breathing during skeep. Common symptoms of OSA include snorting, gasping, or choking respiration; frequent nighttime awakenings; excessive daytime skeepineses; and irritability. Many previous studies have reported that there are many factors that increase the risk of OSA, which include male sex, obesity (higher BMI), older age, greater neck and walst circumienence, as well as cranifoctal disposition and pharyngeal soft itsues [2–4]. Untreated obstructive skeep apnea (OSA) can lead to severe problems such as coronary artery disease, congestive heart failure, myocardial infarction, hypertension, stroke, cardiac arrhythmia, and mortality [5].

For diagnosing obstructive sleep apnea, polysomnography (PSG) is the most reliable technique [1,5]. The American Academy of Sleep Medicine (AASM) has proposed a classification system for the severity of OSA based on the apnea—hypopnea index (AHI).

OSA is classified as mild to moderate (AHI ≥ 5 events/h and AHI < 30 events/h) or severe (AHI ≥ 30 events/h). Without conducting home sleep apnea testing or PSG, the use of clinical devices, questionnaires, and pse diction algorithms is not accommended to diagnose OSA in adults. Uncomplicated adult patients who present with signs and symptoms indicating an increased risk of moderate-to-severe OSA can be diagnosed using home sleep apnea testing with a suitable device or PSG, while adults with comorbid conditions are recommended to use PSG for OSA diagnosis rather than home sleep apnea testing [1]. Following diagnosis, a teatment plan should be developed, which may involve behavioral therapy, oral appliances, positive airway pressure devices, surgery, and/or additional treatments. OSA is regarded as a chronic condition that needs multidisciplinary therapy [1,6].

However, polysomnography (PSG) is costly, time-consuming, many skeep laboratories have long-waiting lists of patients, and an unfamiliar environment may lead to discomfort and perhaps compromise skeep quality [7]. A previous study reported that PSG, fiberoptic pharyngoscopy, and skeep endoscopy have all been used to investigate the predisposing etiological variables of OSA. Nevertheless, even with the use of all available methods, these are limitations in accurately locating the site of the blocked airway because it is not possible to mimic the skeep state in awake individuals [8]. PSG gives a range of physiological data during skeep without determining the anatomic cause of OSA. Consequently, a significant number of people remain undiagnosed due to an inability to access treatment, being asymptomatic, or lacking awareness of their condition. It is essential to place importance on the screening procedures that help in the early identification of patients at risk or those with unaccognized OSA. The screening methods for OSA involve physical examination, upper airway examination, questionnaires, and imaging technologies.

The STOP-Bang questionnaire, Berlin Questionnaire (BQ), and Epworth Skepiness Scale (ESS) are widely used screening tools facilitating the early identification of patients at risk [9]. The STOP-Bang questionnaire is a reliable tool for screening obstructive sleep apnea in adults. It consists of four subjective items (STOP: Snoring, Tiredness, Observed Apnea, and High Blood Pressure) and four demographic criteria (Bang: BMI > 35 kg/m2, age > 50 years, neck circumference > 40 cm, and gender). With a high sensitivity, the STOP-Bang questionnaire can identify patients with moderate-to-severe OSA [10,11]. However, some adjustments are required for Thai patients. The Thai STOP-Bang questionnaire's optimal BMI cutoff point was >30 kg/m2, which increased sensitivity at the AHI cutoff points of 5 and 15 by 88.7% and 93.2%, respectively. A patient is considered high-risk if at least three "yes" answers are provided [12]. Banhiran et al. reported that male gender and a waist-to-height ratio (WHtR) of 0.55 were significant predictors of moderate-to-severe OSA. The WHtR identifies central obesity, or visceral fat, and represents fat distribution [13]. However, some authors reported that if the WHtR is higher than 0.5 or 0.6, the risk of causing obstructive sleep apnea increases [14-17]. Therefore, the waist-to-height ratio (WHtR) should be incorporated into questionnaires for high-risk individuals to reduce the possibility of false-positive results.

Imaging technologies, such as cone-beam computed tomography (CBCT), lateral cephalometric radiographs, and ultrasonography, aid in the study of CSA. Cephalometric radiographs are routinely taken for orthodontic diagnosis and treatment planning by analyzing the relationship between the skull, maxilla, mandible, teeth, and soft tissues. The radiation dose from a lateral cephalogram is low, at approximately 5.6 £50, whereas the CBCT is 15–26 times higher [18]. Previous research has found that most common variables, such as the angle between the anterior cranial base and the maxilla (SNA), the angle between the anterior cranial base and the maxilla (SNA), the space (PAS), the length of soft palate (PNS-P), and the distance from the hyoid bone to the mandibular plane (MP-H), may be correlated with the development and severity of CSA [19]. In addition, Banhiran et al. reported that the risk of moderate-to-severe CSA in Thai patients was also influenced by the cranial base angle (NSBA), which was 130 degrees or less. Abnormality of the skull's base may potentially contribute to the constriction of

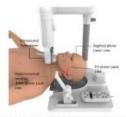


Figure 4. Submental ultrasonography equipment, laser alignment (AmCad BioMed Corporation).

The ultrasonic transducer is aligned with the HM plane's laser projection in the submental region to provide transverse, cross-sectional images (Figure 4). Three replicates were automatically scanned by an ultrasonic transducer during tidal breathing and Mulker maneuvers at 30 degrees, covering the vehicin (V), the oropharyne (O), the base of the torque (C), and the epiglottis (E) (Figure Sa).

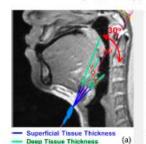




Figure 5. (a) The 30° segment of the upper airway; HM, hyoid-external measure. (b) Transverse view of ultrasonourarbic images.

During scanning, patients were instructed to alternate between regular breathing and Muller maneuvers, completing a total of three repetitions. Muller maneuvers were conducted by inhaling vigorously with the mouth and nose close, simulating upper airway obstruction during awake.

The airway's width, airway's depth, tongue width, airspace-lissue width ratis, superficial tissue thickness, and deep tissue thickness were measured (Figure 5b). Dynamic changes in airway width during tidal breathing and Mulkir mareuvers, or percentages of airway contraction, were calculated as a percentage of pharyngal diameters shortening from the diameters during tidal breathing to that during MM.

The risk of moderate-to-severe OSA (AHI \geq 15/h) was evaluated as a percentage based on the assessment of ultrasonic parameters. The risk of 0-40% is classified as low, 40-80% is classified as medium, and 80-100% is classified as a high risk of moderate-toseveze OSA [28,27-29].

泰國客戶及Srinakharinwirot University醫師參訪



- 建立與泰國Srinakharinwirot University (詩大) 醫院ENT部門高層聯繫,奠定AmCAD-LiveScan POCUS未來客戶基礎,達成初步意向,開闢在泰國新業務機會。
- 參訪Dr. Well牙科診所,獲取安克呼止偵在睡眠牙科醫療推廣的第一手資訊,及技術發展戰略。









與各國醫院的合作洽談進行中



多國合作洽談:目前正積極與三國 (瑞士、巴西、阿聯酋) 醫院進行合作洽談,探索全球市場機會,擴大我們的業務範圍。 戰略合作:各國醫院合作將包括產品試用、市場反饋、技術整合等,旨在提升我們產品的市場競爭力和應用價值。















Financials 財務資訊

簡明合併資產負債表



科目	2024.06.30	%	2023.12.31	%
流動資產	298,456	62	325,893	64
非流動資產	182,872	38	186,753	36
資產總計	481,328	100	512,646	100
流動負債	21,272	4	24,419	4
非流動負債	8,504	2	10,279	2
負債總計	29,776	6	34,698	6
股本	533,184	111	533,306	104
資本公積	8,899	2	8,016	2
保留盈餘	(174,622)	(36)	(148,743)	(29)
其他權益	(9,613)	(2)	(11,996)	(2)
母公司權益	357,848	75	380,583	75
非控制權益	93,704	19	97,365	19
權益總計	451,552	94	477,948	94
負債及權益總計	481,328	100	512,646	100

- 1.現金充足,負債比率低
- 2.7月現增收足股款後,帳上合併現金>4.8億,為公司未來發展提供充足的資金。

↑簡明合併綜合損益表



單位:新台幣仟元

科目	2024年上半年度		2023年上半年度		YoY
	金額	%	金額	%	%
營收淨額	24,448	100	26,137	100	(6)
營業毛利	14,466	59	14,928	57	(3)
營業費用	(46,930)	(192)	(44,351)	(170)	6
營業損失	(32,464)	(133)	(29,423)	(113)	-
營業外收支淨額	2,924	12	5,135	20	(43)
稅後淨損	(29,540)	(121)	(24,288)	(93)	-
稅後淨損-母公司業主	(25,879)	(106)	(23,598)	(90)	-
稅後淨損-非控制權益	(3,661)	(15)	(690)	(3)	-
每股虧損(元)	(0.48)		(0.44)		

▶ 營業收入較去年同期略減,下半年透過國內外展業及拓展牙醫通路,可大幅提升營收



未來展望

醫療診斷的新趨勢: 超音波+ One-Device Al



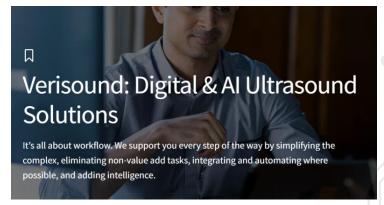
市場背景:

- AI在醫療影像中的應用日益普及。
- AI搭配超音波用以 (a) 提高診斷精準度和效率; (b) 減少人為錯誤; (c) 提供即時診斷; (d) 縮短診療時間。

 GE 的超音波發展

On-device AI 的重要性:

- 所有AI處理均在設備上進行,無需 依賴雲端,確保病患隱私,資料安 全和快速處理。
- GE 的發展案例: GE 已經開始用 On-device Al Ultrasound 提升其超 音波技術的效能和可靠性。





Al for POCUS

Al-powered tools on Venue[™] family ultrasound systems help increase clinician confidence by detecting and tracking nerves during scouting for nerve block procedures, while Caption Guidance helps facilitate acquiring cardiac images in real time.



Al for Primary Care

Whizz Label™ on Versana Premier™ and Versana Balance™ automatically labels liver, gallibladder, and right kidney on images during abdomen scans of the RUQ (right upper quadrant), helping to save time and enhance workflow productivity.

Learn more >



Al for General Imaging

LOGIQ^{no} ultrasound systems now feature Auto Abdominal Suite 1.0. These three new onboard Al-powered, deep learning-based algorithms are designed to reduce intra-/inter-operator variability, enhance exam consistency, and increase workflow efficiency.

Learn more



Al for Cardiology

Vivid™ devices offer Al-supported tools like Easy AFI LV for nearinstant strain measurement and Easy AutoEF for one-click ejection fraction assessment, in Al-aided review for urgent hear issues for precision, speed and ease of use measurement.

Learn more



Al for Women's Health

Reduce 2nd trimester exam time by up to 40% with SonoLyst†, a suite of tools available on Voluson™ systems, that leverage Al to identify fetal anatomy seen on standard views, then automatically annotates and measures where applicable.

Learn more >



Al for Breast Ultrasound

Breast Assistant, powered by Kolos DS^{**} on the LOGIQ E10 and Invenia^{**} ABUS 2.0 ultrasound systems, automatically populates a quantitative breast malignancy risk assessment aligned to BI-RADS * ATLAS category in as little as two seconds.

Learn more

手持式超音波搭配AI技術協助診斷



摘自Key Market Trends in Handheld Ultrasound

Handheld ultrasound has not yet reached mainstream adoption, but the market is still forecast to reach over \$500 million by 2026. Signify Research's newly-published Handheld Ultrasound Deep Dive Report 2022 shows the market revenues are estimated to have grown by approximately 30% in 2021, driven by strong growth in the U.S., the biggest market for handheld ultrasound. Despite the global challenges for handheld ultrasound vendors in 2022, such as rising inflation and supply chain disruptions, the handheld ultrasound market is expected to experience double-digit growth, and this is forecast to continue through to 2026. Most of the market growth will be fueled by increased adoption of handheld devices by new users of ultrasound, such as primary care physicians, nurses, emergency medical technicians (EMTs) and midwives. The key market trends are discussed below.

Trend 1: Artificial Intelligence

The steep learning curve and subsequent ultrasound skills shortage are two of the biggest barriers to the wider use of ultrasound. These challenges are exacerbated in **handheld ultrasound**, where there is a higher proportion of new and less experienced users compared to cart and compact ultrasound. As the expansion of the handheld ultrasound market in the coming years is expected to be strongly driven by new user groups, this barrier will be greater than ever before. These barriers can be partially addressed by **artificial intelligence** (AI) solutions that guide users with positioning and moving the ultrasound probe.

(from Imaging Technology News)

安克AI即時功能: UT、UB及Liver 與手持式超音波整 合,可顯著增強超 音波技術,提供在 各種醫療環境的可 用性和有效性 (POCUS),作為 進入新藍海市場之 開端



MCADUT 以極大化POCUS整合能力作為競爭優勢



即使不依賴 API 或 SDK,安克的AI軟體 也可以跟任何廠牌的掌超整合

BenQ Handheld

Ultrasound

GE VScan® Air **Telemed MirUS Pro** Go To Analyze **EchoNous Lexsa®**

POCUS+AI 商機潛力大



展覽會上展出的AmCAD-UT LiveScan(即時掃描POCUS解決方案)吸引了前所未有的參觀人潮,與會的公司數量超過160家。POCUS吸睛商機大







プ安克未來發展策略



- 技術合作或授權,與硬體廠商聯合銷售
 - 掌握POCUS商機,與國際著名硬體掌超大廠合作:將我們的 AI 超聲技術與其掌超結合,開發出「安克甲狀偵」、「安克 呼止偵」、「安克乳安偵」 技術合作及授權機會。
- ■「安克呼止偵」持續增加臨床價值以擴張市場 國內透過健檢中心並積極拓展牙醫通路,國外則透過與著名 大學(Stanford、UOP、University of Bern等) 臨床合作,在 國際期刊發表論文累積產品聲量與獲得認同,結合國際策略 合作夥伴,拓展全球商機。
- 共同行銷與分潤 與影像平台商雙方互相授權使用對方的技術,在影像平台商 營運市場,共享客戶及銷售分潤。
- 積極推展多國經銷商

