

ANNEX A
Information on Taiwan Excellence Medical Industry Talk @ Medical Fair Asia 2024

Date: Wednesday, 11 September 2024

Time: 2PM - 4PM

Venue: Taiwan Excellence Pavilion @ Medical Fair Asia 2024 (Booth No. 2H01-2J08)

| SESSION | TOPIC | SPEAKER | PRESENTATION HIGHLIGHT (EN) | PRESENTATION HIGHLIGHT (CN) |
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| 1 | AI Medical Trends - From Innovation to Implementation AI智慧醫療浪潮，從創新到落地 | Allen Lien M.D., DrPH Chairman & CEO of Acer Medical Inc. | Smart healthcare has become one of the main tendencies in the medical industry. Acer Medical, as a smart medical solution provider, has been focusing to bring innovation by designing, developing and delivering the AI-driven medical imaging diagnostic technologies. | "智慧醫療已成為醫療行業的主要趨勢之一。作為智慧醫療解決方案提供者的宏碁醫療，我們一直專注於通過設計、開發和提供基於AI的醫療影像診斷技術來帶來創新。 AI被認為在許多醫療領域具有強大的應用潛力。利用信息和通信技術來降低醫療成本、提高醫療效率以及改善醫療質量，已成為全球公共衛生領域的共識。台灣在ICT產業的發展方面居於全球領先地位，因此人工智慧技術的發展充滿活力。不同技術的結合將創造出新的融合產業，並產生全新的協同效應。我們可以通過AI醫療解決方案——SaMD一起踏上這段旅程，窺見AI醫療解決方案的普及和無限前景。 |
| 2 | Innovations Brought by AI Medical Imaging Diagnostic Technology | | AI is considered to have strong application potential in many medical fields. The use of information and communication technology to reduce medical costs, improve medical efficiency, and improve medical quality has become a consensus in the global public health field. Taiwan holds a leading position globally in the development of the ICT industry, | |

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| | | | and the development of artificial intelligence technology is full of energy. The new fusion industry will be created by the combination of different technologies and create whole new synergies. Explore the journey created by AI medical solutions together and get a glimpse of the universal and unlimited prospect of AI medical solutions. | " |
| 3 | The Innovative LDCT AI for Lung Cancer Screening and Coronary Artery Calcium | James Lee Chief Operating Officer of V5med Inc. | <p>A presentation of V5 Lung Aided Interpretation Software, which features:</p> <ul style="list-style-type: none"> ● Precise Nodule Identification: It can accurately identify and mark lung nodules within an image, providing a clear location indicator. ● Suitable Nodule Size Detection: V5 Lung AI can detect nodules ranging in sizes from 4mm to 30mm, offering high sensitivity while maintaining controlled specificity. ● High Sensitivity: It excels in detecting lung nodules with up to 95% sensitivity, particularly those smaller in size (4mm-6mm) and of the GGO type. | <p>“倍利”肺部影像輔助判讀軟體的亮點如下：</p> <ol style="list-style-type: none"> 1. 輔助識別與標記肺部CT系列影像的結節，適用之結節尺寸為4mm到30mm，可精準偵測結節型態包含實質性結節、非實質結節、與毛玻璃病灶。 2. 肺部結節之靈敏度(sensitivity)高達 95.61%，可有效節省醫師判讀時間。 3. 依肺部結節型態及特徵，立即分析提供美國放射學會的肺部判讀指南分級，供後續處理參考。 4. 提供自動化分析報表及肺結節圖像與特徵型態資料等。 5. 同步自動分析同一顆結節在不同時間的CT影像比較，自動顯示出結節成長的量化結果。 6. 經大型臨床實驗證明，醫師使用 |

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| | | | <ul style="list-style-type: none"> ● Efficient Reporting: V5 Lung AI can rapidly generate detection reports, providing Lung-RADS scores and following Fleischer guidelines for standardized reporting. ● Faster Interpretation: By automating parts of the interpretation process, it accelerates physicians' workflow, reducing interpretation time. ● Improved Diagnostic Accuracy: It enhances diagnostic accuracy, with an average increase of 20% in physicians' diagnostic capabilities. ● Nodule Growth Analysis: V5 Lung AI can automatically analyze nodule growth over different scan times, aiding in monitoring and treatment decisions. ● Scalability: V5 Lung AI is versatile and can accommodate multiple CT scanners and workstations, facilitating concurrent use by multiple users. | <p>倍利人工輔助判讀軟體，平均可提升約20%準確率。</p> <p>7. 相容於各大CT廠牌之影像，且能連接PACS及HIS系統，及同院區多醫師同時使用。"</p> |
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| 4 | <p>Smart Surgical Imaging Solutions: Pioneering a New Era in Surgical Vision</p> | <p>James Fan Director of Shennona Co. Ltd</p> | <p>In modern healthcare, precision and visual clarity in surgery are crucial. This presentation will introduce two groundbreaking products - Darwin 3D and Lascaux Video Mesh - that together enhance surgical visualization and operational efficiency, demonstrating how these technologies work together to improve surgical precision and safety.</p> <p>Darwin 3D: Revolutionizing 3D Vision A real-time 3D visualization system that converts 2D endoscopic images into 3D, helping surgeons accurately identify complex anatomical structures. This technology is compatible with most existing 2D endoscopy systems and requires minimal upgrades to achieve 3D imaging. Its adjustable disparity function allows surgeons to customise the 3D experience according to surgical needs, enhancing both safety and efficiency.</p> <p>Lascaux Video Mesh: Integrating OR Imaging A network-based video integration</p> | <p>智慧手術影像解決方案：開創手術視覺新紀元 在現代醫療中，手術的精確度與視覺清晰度至關重要。本次演講將介紹兩項革新性產品——Darwin 3D和Lascaux Video Mesh，這兩者共同提升手術的視覺效果與操作效率。</p> <p>Darwin 3D : 3D視覺的革新 Darwin 3D是一種即時3D視覺系統，能將2D內視鏡影像轉換為3D，幫助醫師更精確地識別複雜的解剖結構。這項技術兼容大多數現有的2D內視鏡系統，僅需少量升級即可實現3D影像。其可調節的視差功能讓醫師能根據手術需求進行個性化調整，提升手術的安全性與效率。</p> <p>Lascaux Video Mesh : 整合手術室影像 Lascaux Video Mesh是一款基於網絡的影像整合平台，專為手術室影像管理設計。它可以將多種設備的影像信號轉換為網絡信號，並輸出至手術室或遠程會議系統。該系統支持4K/3D 60p的高質量傳輸，並具有低延遲、多種佈局切換等功</p> |
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| | | | platform designed for surgical imaging management. It converts signals from various devices into network signals, which can be output to operating rooms or remote conference systems. The system supports high-quality 4K/3D 60p transmission with low latency and multiple layout configurations, making it ideal for live surgeries and educational broadcasts. | 能，適合實時手術與教學直播。 |
| 5 | <p>The First Surgical Navigation Robot in Taiwan</p> <p>臺灣首創腦部導航手術機器人</p> | <p>Gokhan Zorlubas BD Manager of BRAIN NAVI BIOTECHNOLOGY CO., LTD,</p> | <p>NaoTrac is the first Neurosurgical Navigation Robot, merging high-precision technology and surgeons' experience to improve accuracy and outcome by streamlining surgical procedures and improving the learning curve. Brain Navi's exclusive Surface Mapping auto-registration Technology (SMART) platform merges Machine Vision, Robotic, and AI technology to achieve real-time imaging and minimal invasive outcomes for precise surgery. Robot-Assisted Surgery with fast and accurate navigation with non-contact registration, pre-operating planning preparation, and choosing the surgery pathway with a 3D vision for exact anatomical location. The unique</p> | <p>NaoTrac是第一個神經外科手術導航機器人，結合了高精度技術和外科醫生的經驗，通過優化手術流程和縮短外科醫師的學習曲線，改善精確度來達到微創手術並帶來較佳的治療成果。鈦隼生物科技獨家的3D特徵圖資自動對位技術 (SMART Technology) 結合了機器視覺、機器人和人工智能技術，可達到微創手術。手術導航機器人具有快速和精確的導航能力，NaoTrac採用”非接觸式病患註冊技術，可於手術前執行，並使用機器視覺來選擇手術途徑以確定抵達病灶精準之位置。神經外科手術導航機器人可用於腦部切片取樣、腫瘤消融、腦部內視鏡手術、腦室積水引流、SEEG或DBS手術等。</p> |

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| | | | <p>autonomous procedure allows the surgeon to plan and let NaoTrac act as an assistant to precisely insert the instrument into the target lesion position. The brain surgery robot is developed to be used in biopsy, tumor ablation, endoscope, EVD, SEEG, or DBS procedures.</p> | |
| 6 | <p>Designing 3D-Printed PSI instrument for High Tibial Osteotomy (HTO)</p> <p>設計高位脛骨截骨術 (HTO) 的 3D 列印客製化導引板</p> | <p>Robers Luo Marketing Manager of A Plus Biotechnology Co., Ltd.</p> | <p>A Plus Biotechnology has introduced a new 3D-printed PSI for high tibial osteotomy (HTO), which is effective for treating medial knee degeneration due to osteoarthritis (OA). Traditional HTO surgery requires precise bone cutting and continuous X-ray monitoring, which demands high skill and exposes the surgeon to radiation. A Plus has improved this by using 2D and 3D preoperative planning to create a custom 3D-printed PSI. This guide ensures precise bone cutting, reduces surgery time, and minimizes radiation exposure.</p> <p>Advantages of 3D-printed PSI for HTO:</p> <ul style="list-style-type: none"> ● Precise Osteotomy: Calculates the optimal correction angle for precise surgery | <p>Aplus生技公司推出了最新的3D列印客製化導切板 (PSI)，用於輔助高位脛骨截骨術 (HTO)，這是針對骨關節炎 (OA) 膝蓋內側退化的有效手術方式。</p> <p>傳統HTO手術需要精確地進行截骨，並在手術過程中使用X光影像進行持續監控，這需要醫師高超的技術並承受大量的輻射。Aplus改進了傳統操作，透過術前的2D和3D手術規劃，建立了客製化的PSI導引板。此導引板可產生幾乎等同於規劃的術後結果，提升截骨精確度，縮短手術時間並減少輻射暴露。</p> <p>PSI導引的HTO手術具有以下優勢：</p> <ol style="list-style-type: none"> 1. 精確截骨：術前電腦輔助分析，精確計算並模擬最佳矯正角度，達成精準微創。 2. 減少輻射：PSI導引系統減少X |

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| | | | <ul style="list-style-type: none"> ● Reduced Radiation: Lowers the need for X-rays ● Ease of Use: Simplified operation shortens the learning curve ● Better Outcomes: Improves postoperative knee function and long-term results <p>A Plus Biotechnology's 3D-printed PSI for HTO offers a precise, effective, and radiation-reducing option, significantly improving surgical success rates and patient quality of life. A Plus will continue to develop innovative products to enhance patient care and health outcomes.</p> | <p>光影像需求，降低輻射暴露。</p> <p>3. 操作簡便：相對簡單的操作，縮短學習曲線。</p> <p>4. 提升術後效果：精確性提升術後膝關節功能恢復，效果更持久。</p> <p>Aplus生技公司的PSI導引板HTO手術技術為膝關節退化病患提供了一個精準、有效且減少輻射暴露的新選擇，大幅提升了手術的成功率和病患的生活品質。未來，Aplus將持續研發更多創新產品，致力於改善患者的醫療體驗和健康狀況。</p> |
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