

# AWAK NEWSLETTER

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**Current Status:**

- Ongoing Animal Study in SingHealth Experimental Medical Centre (SEMC)
- Pre-Clinical Test in laboratories

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**Chairman's Message**



Chairman: Dr. Gordon Ku

AWAK Technologies has participated in a total of 3 exhibitions in the year of 2010. The 3 exhibitions include the Asia Pacific Congress of Nephrology (APCN) in Seoul, Korea; the European Renal Association-European Dialysis and Transplant Association (ERA-EDTA) Conference in Munich, Germany; as well as American Society of Nephrology (ASN) 2010 in USA, Denver. We have received great responses from the world-wide renal care community on the technology, functionalities and usage of AWAK. I would like to take this opportunity to thank everyone for the continuous support and feedbacks.

During ASN 2010, we showcased our latest 1kg prototype known as the All-in-One ("AiO") design, which received enthusiastic responses and feedbacks from the conference participants. This new design enhanced the sterility of AWAK by having the dialysate circuit fully enclosed and disposed after use. This new design has moved us towards the *vision of changing the landscape for renal dialysis*.

For the year 2011, AWAK Technologies will enter into pilot productions based on the AiO design. The pilot production will receive all the necessary pre-clinical tests such as bio-compatibilities, while conforming to the ISO 13485 Quality Assurance certification system. In parallel, we will be conducting animal studies before moving on to the human clinical trial.

We have worked closely with Harvard Clinical Research Institute over the past 6 months and have jointly developed the clinical trial protocol that has been submitted to the regulatory authority for approval.

I would like to take this opportunity to wish everyone and stakeholders in AWAK a happy and healthy new year ahead, as we work together towards "*Saving, Sustaining and Enhancing Lives.*"

**2011 Summary of Events & Happenings**

Animal Study in SingHealth Experimental Medical Centre (SEMC)

2 patient clinical trial in Tübingen University Hospital (Germany)

Production and Pre-clinical testing

ERA-EDTA Exhibition in June 2011 (Prague)

ASN Exhibition in Nov 2011 (Philadelphia)

## “AiO” Design Showcase at American Society of Nephrology (ASN) 2010

More than 500 conference participants crowded the AWAK booth at the American Society of Nephrology (ASN) Conference 2010 in Denver, USA, to view the latest “All-in-One” (AiO) design.



The visitors were impressed with the concept of “wearability” and “ease of use” after they were given explanations of the functionalities, usage and demonstrations of AWAK. We continue to receive many requests for participations in clinical trials.

The AiO incorporates feedbacks from past conference participants with emphasis on the sterility, infections, weight and form. The new design, which is less than 1kg, eliminates major risks in the previous design. It enhances sterility by eliminating the monthly disposables in the past design by having all components in the dialysate circuit disposable. It also reduces the infection risks by having only one connector to the catheter for AWAK.

AWAK Technologies also put up 2 posters to inform and educate the renal community on our studies and design.

The 1<sup>st</sup> poster was on Tidal Peritoneal Dialysis conducted by Dr Marjorie Foo of Singapore General Hospital. In this 8-patient study, it concluded that the tidal peritoneal dialysis is able to deliver higher than industry standard performance factor with dialysate flow rate of 4 liters per hour.

The 2<sup>nd</sup> poster was on peritoneal-based wearable artificial kidney by Dr Christian G. Bluchel. It explained the use and various technical considerations of sorbent in the design of wearable dialysis machine. This poster has attracted many participants eager to understand the constraints and possibilities that such technology can bring to the patients in the future.



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**1st Poster (Top Left) - Tidal Peritoneal Dialysis (TPD) - Based Large Volume Dialysate Exchange (LVDE) Using Low Reserve and Tidal Volume. Principal Investigator: Dr. Marjorie Foo Wai Yin;**

**2nd Poster (Top Right) - First Prototype Of A Peritoneal Dialysis-Based Automated Wearable Artificial Kidney (AWAK). Principal Investigator: Dr. Christian G. Bluchel.**

**We welcome more feedbacks  
at [info@awak.com](mailto:info@awak.com)**