



可調整之心肺復甦裝置

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市場及需求： 醫院內常常需要對病人施行心肺復甦術進行急救，耗時耗體力。因此出現機械心肺復甦裝置，但現今裝置仍無法用於孕婦和嬰兒身上，其架設速度也因按壓柱位置對不準而不夠快。本研究針對此需求設計出一裝置解決上述問題。

技術摘要(含成果)： 設計一機械調整裝置，使裝置可快速調整按壓柱功能，並根據美國心臟學會的心肺復甦標準，設計一高度調整機構、一傾斜單元和一圓盤半徑調整單元使裝置能用於嬰兒及孕婦病患。

優勢： 可使用於嬰兒、孕婦等病患，並有快速調整按壓柱位置的功能，讓更多病患能夠接受更有品質的機械心肺復甦術。

競爭產品： LUCAS、AutoPulse、Thumper

專利現況：

(1)暫無專利

聯絡方式(請不用填)：

臺大產學合作總中心

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Adjustable CPR device

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Market Needs: Since it is time-consuming and exhausting to perform CPR in the hospital, mechanical CPR device was invented in order to solve those problems. However, current device cannot be used on pregnant patients and infant patients. Its set-up time is usually delayed due to the incorrect piston position. We have designed a novel device to solve these problems.

Our Technology: We have designed an adjustable mechanism which allows our device to adjust the piston position. We took American Heart Association CPR guideline as a reference and designed a height adjustable unit, a tilting unit and a radius switching unit to make the device available on pregnant patients and infant patients.

Strength: Our device can be used on pregnant patients and infant patients. It also has the function to adjust the piston position quickly. Our device can let more patients receive higher quality mechanical CPR.

Competing Products: LUCAS 、 AutoPulse 、 Thumper

Intellectual Properties: None

Contact (do not need to fill out):

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