

ABSTRACT

A ROBOTIC SURGICAL CART

A robotic surgical cart (300) for a robotic arm (201) is disclosed herein. The robotic surgical cart (300) comprises a column (401) having a first end (403) and a second end (405). The robotic surgical cart (300) further comprises a top plate (407) affixed on the first end (403) of the column (401), where the top plate (407) is configured to mount the robotic arm (201) thereon, and at least one guiding shaft (411) affixed on one end to the top plate (407), that provides a controlled channel for movement of the robotic arm (201). The robotic surgical cart (300) further comprises a telescopic pillar (415) including two or more tubular members (417, 419), affixed below the top plate (407). The telescopic pillar (415) defines a longitudinal axis to provide upward and downward movement of the two or more tubular members (417, 419) in the channel provided by the at least one guiding shaft (411) such that the telescopic pillar (415) moves the robotic arm (201) in a position in which a portion of the robotic arm (201) is exposed to contact a patient on a surgical table.

Figure 4(a)