**Weighing the weight of Bed Ridden patient by using**

**Strain Gauge**

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# Abstract



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In some cases there is a necessary of dose calculation of drug for administration based on the body weight, at that time normal patient have capable of getting their weight themselves by using some weighing machines, but at that movement mostly in case of bed ridden like coma patient they themselves cannot able to get their own weight and some man power also needed to lift them and putting them on the weighing machines etc., for this there is a possibility to get the weight by using strain gauge to reduce the manpower.

Although a few methods and devices like bed scale etc., are there in market for weight measuring of bed ridden patient but they didn’t have ability to give accurate, and they are not feasible i.e., they disturbing patient by lifting them and also for those existing methods manpower are needed. To avoid some of these difficulties it is better to use strain gauge to measure body weight of the bed ridden patient.

We are having the idea of placing the strain gauges at the certain points of the sides of the bed and place the network of the thread which is like in the form of seat belt mechanism and pass them just above the sensors, now place the patient on bed and tighten the thread until it will get tight fully, by this at the corners due to the strain on the thread which will directly acts on this sensors just below, by this strain we can calculate the weight of the patient.

**Keywords:** Strain gauge, Bed scale.

**References:**

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