

## عنوان مقاله:

Design and construction of small sized probe and safety testing

## محل انتشار:

دوازدهمین کنفرانس مهندسی پزشکی ایران (سال: 1384)

تعداد صفحات اصل مقاله: 8

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## خلاصه مقاله:

The electrical impedance (EI) probes are usually larger in diameter than that required for in vivo work such as bladder, cervix and oesophagus studies using electrical impedance measurements. The applied current in these probes is high input impedance and a very low sinusoidal (10  $\mu$ A) alternating current. Also, probe sensitivity and contact polarisation of probes have important rule in this procedure thus some parameters must be considered at the time of probe design and construction. Therefore, it was decided to design and construct a suitable probe for this type of studies. Therefore, different methods were used to construct, treat and perform safety tests on the probe before impedance measurements of the urinary bladder in this study.

## کلمات کلیدی:

electrical impedance, probe design and construction, in vivo studies

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/168434>

