

## **A Multichannel Long-Term Reliability Testing Setup for Thin Film-based Implantable Devices**

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A standard protocol to evaluate the durability of thin film-based implantable devices has yet to be established, in contrast to metal packages. In this study, we instrumented a long-term reliability testing setup specifically for thin film-based neuroprosthetic implants to quantitatively assess and compare the encapsulation performance of various materials. The lifetime of the polymer packaging was automatically measured and analyzed by soaking the polymer-coated test samples in hot phosphate-buffered saline (PBS) to accelerate the aging process.