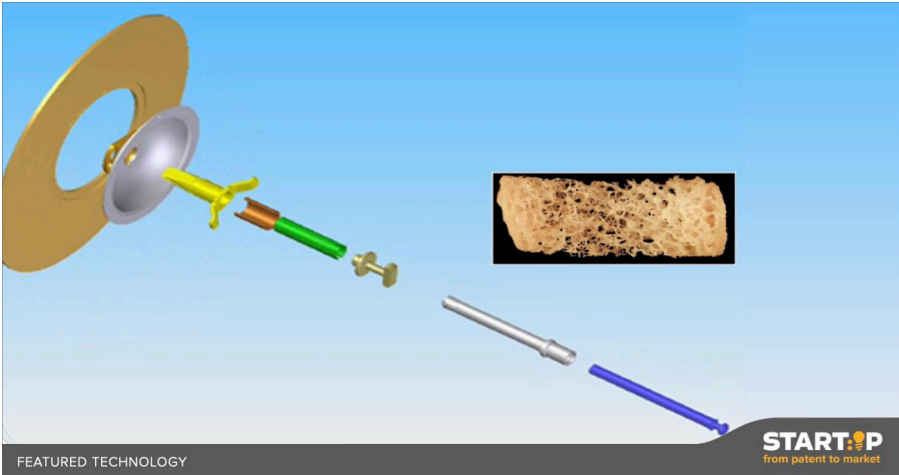


ACMIT GmbH

## 19-BONE HARVESTING TOOL

*Bone sample cylinders are difficult to obtain because they need to be much larger than bone marrow biopsies. Small biopsies break easily, limiting their utility for analysis of diseases. Obtaining large intact bone samples is technically difficult with conventional instruments, requiring pressure that is traumatic for the patient and can easily damage the bone. This technology is a simple to use tool designed to simplify the procedure of collecting an intact bone cylinder.*



The current procedure for taking a large bone cylinder is so difficult that it is often avoided altogether by many medical clinics. This is a major limitation for effective diagnosis and prognosis of diseases, such as rare bone diseases, bone marrow edema, or problems with implants. The tool consists of three integrated parts to enable precise and controlled bone harvesting: a specialized retractor to hold open a surgical incision, an optimized drilling apparatus and collection tube to hold the harvested bone cylinder. The retractor acts as a centering tool, so the tool does not slip and cause accidental damage to the bone. The optimized drill reduces the physical pressure required in standard bone biopsy procedures, and the collection tube makes it simple to hold the final sample and prevent any damage to it. The implementation of this tool into clinical practice would enable clinicians to accurately assess several diseases and decide on the appropriate treatments for patients.



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