

Lead Preparation for Lead Extraction

Bruce L. Wilkoff MD

Cleveland Clinic

Professor: Cleveland Clinic Lerner College of Medicine of Case Western Reserve University

Deb Family Endowed Chair in Lead Management

Successful and safe transvenous lead extraction requires overcoming the clots, fibrosis and calcifications that form on leads. This presentation explains the importance of leveraging the characteristics of the leads being removed and improving the tensile properties for controlled disruption of the fibrotic attachments. Producing a rail that does not stretch or deform as the sheaths are advanced is of utmost importance. Positioning rather than retracting the lead while maintaining the rail is the goal. New research on the lead most commonly employed for conduction system pacing has enabled a superior lead preparation for all leads. Use of a thin and strong suture plus the constrictor knot was compared to other preparation techniques and proven to improve the prep for the conduction system leads but also for all other leads. There is also a relaunch of [LEADconnection.org](https://www.leadconnection.org) as a resource for all of the lead extraction community. Monthly podcasts, all of the extraction literature and much more is available for everyone. Use this QR code.

