



Fig. E-1

Fig. E-1A Knot holding-strength testing. The suture loop is mounted on the testing machine with the knot located in the middle. **Fig. E-1B** Suture strength testing. To avoid failure at the knot site, the suture is wrapped around a hooking rod four times, with an 8-throw square knot buried within the suture loops.

TABLE E-1 Failure Mode of Suture Loops According to Suture Material and Knot Configuration

Configuration	Suture Material	Failure (no.)		
		Suture Break at Midsubstance	Suture Break at Knot Site	Knot Sliding and Unraveling
Intact loop	FiberWire	10	0	0
	PDS	10	0	0
	Ethibond	10	0	0
TSOL knot	FiberWire	0	5	5
	PDS	0	10	0
	Ethibond	0	10	0
4-throw square knot	FiberWire	0	0	10
	PDS	0	3	7
	Ethibond	0	1	9