	Weight		Disposable electrocautery with disposable tips	Autoclavable electrocautery with disposable tips	Autoclavable electrocautery with autoclavable tips	Solar-powered disposable electrocautery	electrocautery	Autoclavable electrocautery with extendable tips/scapel	Autoclavable electrocautery with extendable tips/heated scalpel	Heating a metal probe over a fire
Safety	2	0	1	1	1	1	1	2	3	-2
Cost	1	0	-2	-1	1	0	2	2	1	3
Reliability	1.5	0	1	1	1	-1	1	1	1	-2
Portability and surgical convenience	1.5	0	1	1	1	-2	2	2	3	0
Maintenance	1	0	2	1	1	0	1	1	1	1
Local manufacturing	1	0	1	1	1	-1	1	1	0.5	2
Total		0	6	6	8	-3.5	10.5	12.5	14.5	-0.5

	Weight	Datum: electrosurgery machine	Removable, non- rechargeable batteries; copper prongs	Attachment to an AC source; copper prongs	Aluminum foil probes; externally rechargeable batteries (cell phone-inspired model)	Copper probes; externally rechargeable batteries (cell phone-inspired model)	Mechanically rechargeable battery, copper prongs	
Safety	2	0	++	++	++	++	++	
Cost	1	0	-	+	++	+	0	
Reliability	1.5	0	0	0	-	0		
Portability	1.5	0	++	0	++	++	++	
Maintenance	1	0	-	0	++	+	-	
Local manufacturing	1	0	+	0	+	+	+	
Total		0	6	5	10.5	10	4	
	Weight	Solar- powered electrocautery	Butane powered (or other type of of fuel) electrocautery	Coaxial prongs: copper inner, aluminum outer; externally rechargeable batteries	Ball point tip with conducting fluid as probe; externally rechargeable batteries	Laser cautery (modified laser pointer)	Chemical cautery (in ballpoint pen style)	Heating a metal prod over a fire
Safety	2	++	-	++	++	+	0	
Cost	1		-	+	0	+	-	
Reliability	1.5		0	0	0	0	0	
Portability	1.5		++	++	++	++	0	+
Maintenance	1	0	+	0	0	+		+
Local manufacturing	1	-	-	-	+	-	-	++
Total		-3.5	0	7	8	6	-4	-4.5

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