Prepared/revised by Philip E. Eggers on 6/15/16	6							
			Surgi	cal Incisi	on Dev	ice		
Attribute	Hemostatix	Cold Scalpel	Monopolar	Monopolar	Harmonic	Ferromagnetically	Pulsed Monopolar	
	Thermal Scalpel		Electrosurgery-Cut	Electrosurgery-Coag	Incision	Heated Loop	Electrosurgery	
UTTINIC EEECTIVENIEGG								
UTTING EFFECTIVENESS Provides scalpel tactile feedback sufficient to distinguish tissue types			×	×	<b>↔</b>	*	↔	
				* •	•••		*	
Provides precise tissue incision equivalent to cold scalpel Incises with low-drag in all tissue types			*	* · · · · · · · · · · · · · · · · · · ·	*		*	
Reduces operating time to both cut and coagulate tissue		×			▲			
Eliminates need to adjust tip-to-tissue air gap distance during incision	V V	~						
Emmates need to adjust up-to-tissue an gap distance during metsion								
EMOSTASIS EFFECTIVENESS								
Allows surgeon to set scalpel maximum temperature	<ul> <li>✓</li> </ul>	×	×	×	×	*	*	
Minimizes collateral thermal damage to nearby vital structures	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	×	×	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	✓	
Seals most blood vessels as they are incised providing dry field	<ul> <li>✓</li> </ul>	×	×		×	<ul> <li>✓</li> </ul>	*	
Enables application of tamponade to seal larger vessels prior to incision	<ul> <li>✓</li> </ul>	×	×	×	<ul> <li>✓</li> </ul>	×	*	
Minimizes depth of necrosis at surface of incision	<ul> <li>✓</li> </ul>	✓	×	*	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	✓	
AFETY								
Eliminates possibility of electrical tissue stimulation	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	×	×	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	*	
Eliminates possibility of dispersing airborne, viable tumor cells and virions	<ul> <li>✓</li> </ul>	✓	×	*	×	<ul> <li>✓</li> </ul>	*	
Avoids interference with Pacemakers, Implantable Defibrillators, Cochlear implants	<ul> <li>✓</li> </ul>	✓	*	*	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	*	
Eliminates need for smoke evacuation	<ul> <li>✓</li> </ul>	✓	×	*	×	×	*	
Eliminates grounding pad	<ul> <li>✓</li> </ul>	✓	×	*	✓	<ul> <li>✓</li> </ul>	*	
	~	<b>v</b>	×	*	✓	<ul> <li>✓</li> </ul>	*	
Avoids electrical current flow is tissue, unwanted collateral electrical tissue injury	•	•						

		Surgi	cal Incisi	on Devi	ce		
Hemostatix	Cold Scalpel	Monopolar	Monopolar	Harmonic	Ferromagnetically	Pulsed Monopolar	
<b>Fhermal Scalpel</b>		Electrosurgery-Cut	Electrosurgery-Coag	Incision	Heated Loop	Electrosurgery	
<ul> <li></li> </ul>	✓	*	*	*	*	*	
<ul> <li></li> </ul>	✓	*	*	*	*	*	
<ul> <li></li> </ul>		✓	*	*			
<b>v</b>	*	✓		*	✓		
✓	✓	✓	✓		✓		
✓	*	*	*	*	*	*	
<b>v</b>	$\checkmark$	*	×	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	✓	
<b>v</b>	×	*	✓	×	<ul> <li>✓</li> </ul>	*	
<b>v</b>	×	×	×	<ul> <li>✓</li> </ul>	×	*	
<ul> <li>Image: A start of the start of</li></ul>	✓	*	*	✓	✓	✓	
<ul> <li></li> </ul>	$\checkmark$	×	×	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	*	
V	~	×	*	*	<ul> <li>✓</li> </ul>	*	
<b>v</b>	<ul> <li>✓</li> </ul>	×	×	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	*	
~	~	×	×	×	×	*	
~	~	×	×	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	*	
<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	×	×	✓	<ul> <li>✓</li> </ul>	*	
		{see Notes 1, 2, 3 and 6}	{see Notes 1, 2, 3 and 6}	{see Notes 1, 2, 3 and 5}		{see Notes 1, 2 and 3}	
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