# The GuideLiner® Catheter

C0:07/ 6:19 index to be used in conjunction with guide catheters to access discrite regions of the coronary and/or perpheral valculature, and to facilitate p

# The Engineering Story

//www.youtube.com/watch?v=ukQwAceNzPc

Medtronic Ex-1824 Medtronic v. Teleflex Page 1

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		Page	1
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2			
3			
4			
5			
6			
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12			
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14	VIDEO/AUDIO FILE TRANSCRIPTION		
15	GuideLiner V3 Catheter: The Engineering	Story	
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1	Page 2 The story of Guideliner is kind of the	1	Page find a coating that allowed the catheter to deliver into
	story of innovation.		that distal anatomy, but then also provided the backup
3	5		support. The silicone coating provides enough lubricity
	first guide extension catheter introduced into the		for movement, but it also allows the device to stay put
	market.	5	
6		6	Our bench tests show an 18 to 46 percent
7		7	-
	needed most. We recognized that there was a need for a	8	
9			hydrophilic coated guide extensions.
9 10		10	If you look at metal support options for
10			catheters, you're kind of left with two viable options,
11 12			and that's realistically a coil-reinforced design or a
			braid reinforced design.
13		13	We decided for the GuideLiner that the
14 15			
15	J 1		choice was obvious to go with a coil. We came to the
	your procedure.		conclusion right away that a braided design does not hold
17			its shape very well. In our bench testing, around a 7
18			and a half millimeter bend, a braided guide extension
19 20	5		catheter construction will give up 10 percent of its
20 21	, , , , , , , , , , , , , , , , , , , ,		diameter versus the coiled guide extension catheter does
21	5		not give up any of its diameter.
22	5 11 5	22	Our testing also found that the stiffer
	started to become the go-to catheter.		distal shaft of a competitive coiled guide extension
24	6 ,		catheter will give up 7 percent of its diameter versus
25	that stability as a basis of operation, you can continue	25	the GuideLiner V3 catheter's coiled distal shaft, which
	Page 3		Page
	to focus on delivering your devices where they need to	1	does not give up any of its diameter.
2	go.	2	In the coronary anatomy, you are
3	5 1		delivering the collar up and over the aortic arch. And
4	innovate that design. So it went from a simple metal	4	so we realized that if we could move that collar back to
5	collar design to a simple polymer collar design to what	5	a straighter section of the aorta, that you're going to
6	is now our current GuideLiner V3 that features a	6	have better luck delivering that device.
7	half-pipe that really does help with device delivery	7	What that does is reduces the wire wrap of
8	interactions. It really helps align those devices and	8	the wire within the guide catheter into the guide
9	get those delivered easier into the GuideLiner V3 and	9	extension. It reduces the interactions of interventional
10	into that distal anatomy.	10	devices with the collar of the guide extension.
11	The half-pipe design on the GuideLiner V3	11	The GuideLiner V3 catheter features a
12	catheter represents our commitment to continuous	12	17-centimeter polymer bond between the extension and th
13	improvement and continuous engineering and innovation on	13	push wire to minimize device separation. And we've sold
14			over a half a million GuideLiner V3 catheters, and we've
15	-		yet to have a collar separation in coronary PCI.
	the art of compromise. How feature rich do we make the	16	When we talk about effective ID, what
17	· · · · · · · · · · · · · · ·		we've really talking about is what's the smallest point
18			from the hemostasis valve all the way to the distal tip
-			of the guide catheter. And in most guide extension
19			catheters, the smallest area is in the guide catheter
			with the pushrod.
20	hydrophilic coating on a Guidel iner catheter and if		So when we were looking at the GuideLiner
20 21		22	
20 21 22	delivers amazingly. But the problem is you have no	22	
19 20 21 22 23 24	delivers amazingly. But the problem is you have no backup support. And it really comes down to laws of	23	catheter, we decided we wanted to use a
20 21 22	delivers amazingly. But the problem is you have no backup support. And it really comes down to laws of motion and physics.	23 24	

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1	Page 6 interventional devices. It allows you to deliver more	1 REPORTER'S CERTIFICATE	Pa
	gear, larger gear, through your guide catheter, through	2 STATE OF MINNESOTA ) ) ss.	
		3 COUNTY OF HENNEPIN )	
4	We're 56 thousandths from the moment you	4 I, Dawn Workman Bounds, hereby certify that I	
4 5		reported the above audio transcription to the best of my 5 ability on the 17th day of December, 2020, in	
		Minneapolis, Minnesota. 6	
6		That the cost of the original has been charged	
7		7 to the party who noticed the transcription, and that all	
8		parties who ordered copies have been charged at the same 8 rate for such copies;	
		9 That I am not a relative or employee or	
	makes a huge difference on whether or not your case is	attorney or counsel of any of the parties, or a relative 10 or employee of such attorney or counsel;	
	successful. 5 or 6 thousandths in effective ID, that's a	11 That I am not financially interested in the	
	big number.	action and have no contract with the parties, attorneys, 12 or persons with an interest in the action that affects or	
13		has a substantial tendency to affect my impartiality;	
	18 to 46 percent more backup support with a GuideLiner is	13 I further assert that the transcript may	
	a huge number. In the last 10 years, across the	14 contain unintelligible or inaudible portions that were	
	generations of GuideLiner catheters, we've sold more than	indecipherable to me and beyond my control. 15	
	a million catheters worldwide, and we've solidified our	16 WITNESS MY HAND AND SEAL THIS 18th day of	
18	place as a market leader in guide extension.	December, 2020. 17	
19		18	
20	seen a tremendous shift in the complexity of cases that	19 20	
21	are able to be treated due to the technology of	21	
22	GuideLiner. Whether those are, you know, longer lesions,	22 Notary Public, Hennepin County, Minnesota	
23	more tortuous lesions, more calcium, you know, the	My commission expires January 31, 2024	
24	GuideLiner is really a necessary tool for those.	23 24	
25	It represents the commitment to solving	25	
9 10 11 12 13 14 15 16 17 18 19	the procedural impacts of guide extension, and we've continued to improve our catheter to make sure that we address those issues. Physicians choose GuideLiner on a daily basis because they just know that when they pull a GuideLiner, it's going to work. (End of video/audio file.)		
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23			
23			

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1	aorta 5:5	centimeter 5:12	<b>cost</b> 8:6
	aortic 5:3	certificate 8:1	<b>counsel</b> 8:9,10
<b>10</b> 4:19 6:15,19	applications 2:22	certify 8:4	county 8:3,22
<b>17</b> 5:12	arch 5:3	charged 8:6,7	created 7:2,3
<b>17934</b> 8:21	area 5:20	choice 4:15	current 3:6
17th 8:5	art 3:16	choose 7:7	d
<b>18</b> 4:6 6:14	assert 8:13	chose 6:7	
<b>18th</b> 8:16	attorney 8:9,10	clinical 2:6,21 7:1	daily 7:7
2	attorneys 8:11	7:3	<b>dawn</b> 8:4,21
2009 2:3	<b>audio</b> 1:14 7:10	coated 4:9	<b>day</b> 8:5,16
<b>2020</b> 8:5,16	8:4	coating 3:21 4:1,3	<b>december</b> 8:5,16
2024 8:22	b	coil 4:12,15	<b>decided</b> 4:14 5:23
3		coiled 4:20,23,25	<b>deliver</b> 2:9 4:1
	back 2:3 3:18 5:4	collar 3:5,5 5:3,4	5:25 6:1
31 8:22	backup 2:7,14	5:10,15	deliverability 3:19
4	3:23 4:2,7 6:13,14	<b>comes</b> 3:23	delivered 3:9
<b>46</b> 4:6 6:14	basis 2:15,25 7:8	commission 8:22	delivering 3:1 5:3
5	<b>bench</b> 4:6,17	commitment 3:12	5:6
5 6:8,11	bend 4:18	6:25	delivers 3:22
<b>56</b> 6:4	best 8:4	compared 4:8	<b>delivery</b> 2:20 3:7
	better 5:6	competitive 4:8,23	<b>design</b> 3:4,5,5,11
6	beyond 8:14	competitors 6:6	4:12,13,16 6:9
<b>6</b> 6:8,11	<b>big</b> 6:12	complex 2:10	designed 2:13
7	bond 5:12	complexity 6:20	<b>device</b> 3:7,17 4:4
<b>7</b> 4:17,24	bounds 8:4,21	compromise 3:16	5:6,13
a	braid 4:13	3:25	<b>devices</b> 3:1,8 5:10
	<b>braided</b> 4:16,18	conclusion 4:16	6:1
ability 2:18 8:5	С	conduct 2:15	<b>diameter</b> 4:20,21
able 6:21	calcium 6:23	confidence 2:24	4:24 5:1
action 8:11,12	<b>case</b> 6:10	construction 4:19	difference 6:10
additional 2:14	cases 6:20	contain 8:14	differences 6:9
5:25	<b>catheter</b> 1:15 2:4,7	<b>continue</b> 2:25 3:3	<b>distal</b> 2:11,18 3:10
address 7:6	2:14,18,22,23 3:12	continued 7:5	4:2,23,25 5:18 6:6
affect 8:12	3:19,21 4:1,7,19	continuous 3:12	<b>due</b> 6:21
align 3:8	4:20,24 5:8,11,19	3:13	e
alleviated 2:19	5:20,23,25 6:2,5,8	contract 8:11	easier 3:9
allow 2:14	7:2,5	control 8:14	<b>effective</b> 5:16 6:11
allowed 2:9 4:1	catheter's 4:25	copies 8:7,8	<b>employee</b> 8:9,10
allows 4:4 6:1	catheters 4:8,11	<b>coronary</b> 2:19 5:2	engineering 1:15
amazingly 3:22	5:14,20 6:16,17	5:15	3:13,15
anatomy 2:11 3:10			
4:2 5:2			

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