67128-Supplementary Material

DEMOGRAPHIC DATA:

Supplementary Material 1- Survey Instrument (11-point questionnaire)

1. Sex: Male Female
2. Age: years
3. Height m
4. Weight kg
5. Hand dominance Left Right
6. Are you a/an
a. Endoscopist
b. GI Resident
c. Endoscopy Nurse
d. Endoscopy Technician
PRACTICE RELATED DATA:
1. How much of your time do you spend performing muscle strengthening exercises biking, jogging/running per week?
a. <150 minutes of physical exercise every week
b. 150 minutes of physical exercise every week
c. >150 minutes of physical exercise every week
d. None
2. Do you currently perform endoscopy (please make a circle around the answer)
a. Yes
b. No
3. Number of years performing endoscopic procedures

4.	Approximate no. of endoscopies performed per week
5.	What percentage of work do you spend performing endoscopies?

6. Of the time you spend doing endoscopy, what percentage do you spend doing the following: (please circle)

Procedure	Percentage Time										
EGD	0	10	20	30	40	50	60	70	80	90	100
Colonoscopy	0	10	20	30	40	50	60	70	80	90	100
ERCP	0	10	20	30	40	50	60	70	80	90	100
EUS	0	10	20	30	40	50	60	70	80	90	100
Enteroscopy	0	10	20	30	40	50	60	70	80	90	100
Therapeutic endoscopies											
Bleeders	0	10	20	30	40	50	60	70	80	90	100
PEG insertion	0	10	20	30	40	50	60	70	80	90	100

- 7. Have you experienced injury (pain or numbness) in your neck, back, or upper or lower limbs, following endoscopy list or as a constant feature?
 - a. Yes
 - b. No

Facts about injury

- 1. Type of injury (circle multiple if needed):
 - a. Thumb pain i. Left ii. Right iii. Both
 - b. Shoulder pain i. Left ii. Right iii. Both
 - c. Hand pain i. Left ii. Right iii. Both
 - d. Neck/upper back pain
 - e. Lower back pain

	g. Hand numbness i. Left ii. Right iii. Both
	h. Carpal tunnel syndrome
	i. Other
2.	Is/was pain caused by endoscopy?
	a. Yes
	b. No
	c. Maybe
3.	When is/was pain evident?
	a. At work performing endoscopy
	b. At work performing endoscopy/clinic
	c. At work/outside work
	d. Outside work only
4.	How much does/did this bother you?
	a. 1 (least) b. 2 c. 3 d. 4 e. 5 (most)
	How long have you had these symptoms (circle unit after writing answer)? months/years
6.	Is it static or increasing?
7.	Have you ever had to take time off from performing endoscopy because of
	musculoskeletal injury perceived related to endoscopy?
	a. Yes
	b. No
8.	If yes to above, what is the longest consecutive amount of time you have taken off work because of a musculoskeletal injury perceived to be related to endoscopy (circle unit with answer)?

f. Elbow pain i. Left ii. Right iii. Both

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9.	Do/aia	you take any n	nedicine for your symptoms?
			How frequently?
		0.	now nequentry:
10.	Do you	perform any e	nvironmental modifications during endoscopy?
		a.	None
			Height-adjustable examination table
			Position of endoscopic monitor in front at eye level
			Position of the cardiac monitor in front
		e.	Stopped helping to move patients after procedures
		f.	Sit while you perform colonoscopy
		g.	Any other?
11	Whore	is the cordine r	agnitor placed during and accomiac?
11.			nonitor placed during endoscopies? le of the patient
			•
		Behind the pa	
			d of the patient
	u.	Other.	
12	Where	is the endoscor	oic monitor placed during endoscopies?
12.		-	le of the patient
		Behind the pa	<u> </u>
		-	d of the patient
13.	•	suggest any of multiple if need	The following changes should be made to improve ergonomics? (led)
	a.	Change in pos	sition of the cardiac monitor; where:
	b.	Change in pos	sition of the endoscopic monitor; where:
	c.	Monitors adju	sted at eye level
	d.	A chair to sit	on while performing your role for the duration of procedure
	e.	Break between	n consecutive procedures
	f.	Stopping to he	elp move patients after procedures
	g.	Other :	
	h.	None	

_____ days/months/years

Supplementary Material 2

Survey Instrument (13-point questionnaire)

Hospital Name:	
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Is the endoscopist monitor located directly in front of endoscopist?	Yes	No
Is the endoscopist monitor height adjustable to accommodate the height of endoscopist and his or her preferred viewing distance/ angle?	Yes	No
Monitor booms and mobile stands available	Yes	No
Time in-between patients less than 10 min	Yes	No
Endoscope support stand available	Yes	No
Anti-fatigue mats/gel floor pads available	Yes	No
2-piece lead apron	Yes	No
Height adjustable examination table	Yes	No
Tiltable examination table	Yes	No
Computer stations should be adjustable	Yes	No
Nonslip flooring and covering bundled wires	Yes	No
Is the cardiac monitor adjustable	Yes	No
Is ERCP room in the suite	Yes	No