

Surgery COVID-19 Guidelines

Society	Country/region	Overall management of surgical patients				Operating room				PPE		Surgical considerations		
		Elective Sx	Triage	Surgical Indications	Management of pts requiring urgent OR	Designated OR	Air Exchange	Closed pt circuit	Personnel in OR	PPE non-AGMP	PPE AGMP	Surgical considerations	Laparoscopy	Case Completion
TSBC	Canada	--	--	--	--	--	--	--	Only essential	N95, face shield, gloves, gown	Same	Most experienced provider	Potentially AGMP if risk of enteric breach. Smoke filter	--
ACS	US	Cancel	ACS/MeNTs	Consider non-op	Mask only	--	--	--	Only essential	--	--	Consider avoiding laparoscopy	Consider avoiding laparoscopy	Remove all PPE, minimal personnel at handover
EAST	US	Cancel	MDR	Unchanged	All pts assumed positive	--	--	--	Only essential if COVID+	--	--	Most experienced provider. Laparoscopy as per standard of care.	Laparoscopy as per standard of care. Potentially AGMP, smoke evacuator, limit cautery, vent ports through suction/smoke evacuator	Recover in OR. Hold everyone in room 20-30 minutes post-extubation
SAGES	US	Cancel	--	Unchanged	All pts assumed positive	Yes	>20 cycles/h	Yes	Only essential and most experienced.	If PPE is available, airborne precautions for all	N95 mask (+/- surgical mask), face shield, double glove	Best practice	Smoke evacuator with ULPA filter. If not available, considering doing procedure open with minimal use of energy device or non op management	Recover in OR. Hold everyone in room 10-30 min post extubation, remove all PPE.
ASA	US	Cancel	--	--	All pts assumed positive	Yes	Negative pressure	Yes	Only essential	N95, face shield, double gloves, gown	Same	--	--	Recover in OR, or dedicated COVID isolation area, allow adequate time between patients based on number of air exchanges https://www.cdc.gov/infectioncontrol/guidelines/environmental/appendix/air.html#table1
RCS UK	UK	Cancel	NCEPOD	Unchanged	--	--	Ventilation in both laminar flow and conventionally ventilated theatres should remain fully on	--	Minimum staff. Trainees should work under close supervision and with appropriate training	Surgical mask, eye/face protection, gloves, fluid repellent gown	Same plus FFP3 respirator	Consider avoiding laparoscopy	Potentially AGMP. Safety mechanisms (filter, traps, careful delating)	--
COSECSA	Africa	Cancel	ACS/MeNTs	--	--	Yes	Neutral or negative pressure	Yes	No trainees	Surgical mask, goggles of face shield, heavy duty gloves, long sleeved gown, boots	Same plus N95 or KN95	Limit operating time	Potentially AGMP. Limit free release of pneumoperitoneum	Recover in OR. Runner to be sent out to clear path for patient transport
ESTES	Europe	Cancel	MDR	Unchanged	Standard precautions (anesthesia may use respirator if available)	Yes	>=25 cycles/h	Yes	Only essential	Respirator and surgical mask, eye/face shield, double glove, disposable head cover	Same	Most experienced, limit electrocautery/energy device	HEPA filter	Recover in OR, buddy doffing, transport staff maintain mask but change gown/gloves, change scrubs immediately
SIC	Italy	Cancel	--	--	All pts assumed positive	Yes	>25 cycles/h or negative pressure	Yes	Only essential	FFP2, eye protection, gloves, gown, caps and shoe covers	Same plus FFP3 respirator	--	Not AGMP. FFP3 not recommended	Remove all PPE in dedicated area, wear new PPE if have to transport patient
ICRC	International	Cancel	--	Consider non-op	--	Yes	--	--	Only essential (to preserve PPE)	FFP2 and N95, goggles or visors, gloves, gown	Same	Avoid diathermy	--	--
MSF	International	Cancel	--	Unchanged	--	--	--	Yes	Only essential	Surgical mask, eye protection, gown, gloves	Same plus FFP2/N95	Perform all minor procedures in isolation zone and not in OR	--	Recover in OR. Limit staff present during extubation

Societies	TSBC	ACS	EAST	SAGES	ASA	RCS UK	COSECSA	ESTES	SIC	ICRC	MSF
	Trauma Services British Columbia	American College of Surgeons	Eastern Association for the Surgery of Trauma	Society for American Gastrointestinal and Endoscopic Surgeons	American Society of Anesthesia	Royal College of Surgeons of England	College of Surgeons of East, Central and Southern Africa	European Society of Trauma and Emergency Surgery	Società Italiana Chirurgia	International Committee of the Red Cross	Medecins Sans Frontieres

Legend Box	MeNTs	NCEPOD	MDR	PPE	AGMP	FFP2/3	HEPA
	Medically Necessary Time Sensitive	National Confidential Enquiry into Patient Outcome and Death	Multi-disciplinary review	Personal Protective Equipment	Aerosol Generating Medical Procedure	Filtering Face Piece 2/3	High Efficiency Particulate Air



THE UNIVERSITY OF BRITISH COLUMBIA
Continuing Professional Development
 Faculty of Medicine

(Credit: Table created by Dr. Dean Percy, MD and Dr. Claudia Arenas, MD, trauma fellows Vancouver General Hospital, Canada)