

**Table S1** Characteristics of the SUPER Delphi expert panel

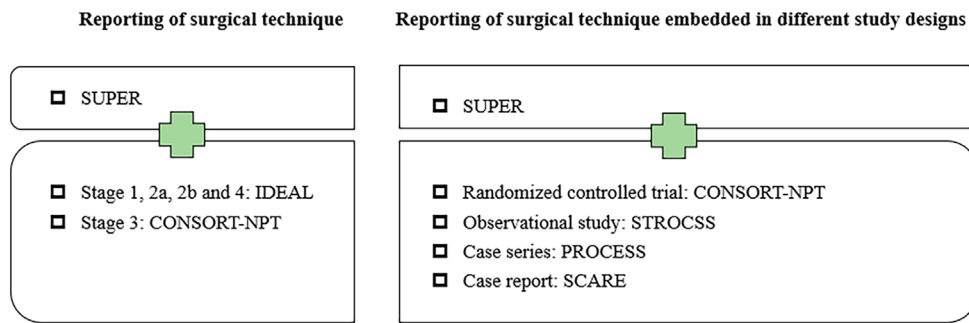
Characteristics	SUPER Delphi expert panel (N=21)
Professional role	
Surgeon	21
Sex	
Male	19
Female	2
Number of years qualified	
0–4	0
5–9	2
10–14	1
15–19	6
≥20	12
Specialty	
Thoracic surgery	15
Digestive surgery	3
Cardiothoracic surgery	1
Surgical oncology	1
Gynecological surgery	1
Location	
Italy	5
The United States of America	3
Spain	2
China (Hong Kong)	2
Belgium	1
The United Kingdom	1
Germany	1
Denmark	1
Brazil	1
Canada	1
Japan	1
France	1
Switzerland	1

SUPER, Surgical techniQe rePorting chEcklist and standaRds.

**Table S2** SUPER three rounds of Delphi scores

Item	1st round Delphi survey (21/23)			2nd round Delphi survey (17/23)			3rd round Delphi survey (14/23)		
	Score 1–2, N (%)	Score 3, N (%)	Score 4–5, N (%)	Score 1–2, N (%)	Score 3, N (%)	Score 4–5, N (%)	Score 1–2, N (%)	Score 3, N (%)	Score 4–5, N (%)
1	2 (9.5)	9 (42.9)	10 (47.6)	4 (23.5)	5 (29.4)	8 (47.1)	2 (14.3)	2 (14.3)	10 (71.4)
2	2 (9.5)	3 (14.3)	16 (76.2)	–	–	–	–	–	–
3	1 (4.8)	2 (9.5)	18 (85.7)	–	–	–	–	–	–
4	3 (14.3)	1 (4.8)	17 (81.0)	–	–	–	6 (42.9) <sup>§</sup>	3 (21.4) <sup>§</sup>	5 (35.7) <sup>§</sup>
5	1 (4.8)	3 (14.3)	17 (81.0)	–	–	–	–	–	–
6	3 (14.3)	2 (9.5)	16 (76.2)	–	–	–	–	–	–
7	9 (42.9)	6 (28.6)	6 (28.6)	2 (11.8)	2 (11.8)	13 (76.5)	–	–	–
8	1 (4.8)	1 (4.8)	19 (90.5)	–	–	–	–	–	–
9	2 (9.5)	2 (9.5)	17 (81.0)	–	–	–	–	–	–
10	0 (0)	2 (9.5)	19 (90.5)	–	–	–	–	–	–
11	6 (28.6)	5 (23.8)	10 (47.6)	0 (0)	4 (23.5)	13 (76.5)	–	–	–
12	0 (0)	0 (0)	21 (100.0)	–	–	–	–	–	–
13	1 (4.8)	3 (14.3)	17 (81.0)	–	–	–	–	–	–
14	1 (4.8)	1 (4.8)	19 (90.5)	–	–	–	–	–	–
15	0 (0)	6 (28.6)	15 (71.4)	0 (0)*	1 (5.9)*	16 (94.1)*	–	–	–
16	0 (0)	5 (23.8)	16 (76.2)	–	–	–	–	–	–
17	4 (19.0)	7 (33.3)	10 (47.6)	1 (5.9)	7 (41.2)	9 (52.9)	1 (7.1)	2 (14.3)	11 (78.6)
18	0 (0)	2 (9.5)	19 (90.5)	–	–	–	–	–	–
19	5 (23.8)	5 (23.8)	11 (52.4)	1 (5.9)	8 (47.1)	8 (47.1)	1 (7.1)	3 (21.4)	10 (71.4)
20	0 (0)	2 (9.5)	19 (90.5)	–	–	–	–	–	–
21	1 (4.8)	1 (4.8)	19 (90.5)	2 (11.8) <sup>†</sup>	3 (17.6) <sup>†</sup>	12 (70.6) <sup>†</sup>	–	–	–
22	1 (4.8)	2 (9.5)	18 (85.7)	–	–	–	–	–	–

Scores range from 1 to 5, corresponding with the lowest to the highest level of importance. Consensus on any item is conditional to  $\geq 66\%$  of the responses having agreed on the rating in one category. \*, only survey on the “video format” in item 15; †, only survey on the “cost” in item 21; §, only survey on the “degree of difficulty” in item 4. SUPER, Surgical technique Reporting checklist and standards.



**Figure S1** Scheme of suggested collaborative use of reporting guidelines in surgical technique. Stages 1, 2a, 2b, 3 and 4 refer to the IDEAL criteria for different stages of surgical innovations. IDEAL, The Idea, Development, Exploration, Assessment, Long Term Study (IDEAL) Framework and Recommendations; CONSORT-NPT, The Consolidated Standards of Reporting Trials Statement to Randomized Trials of Nonpharmacologic Treatment; STROCSS, Strengthening the reporting of cohort, cross-sectional and case-control studies in surgery; PROCESS, Preferred Reporting Of CasE Series in Surgery; SCARE, Surgical CAse REport (SCARE) Guidelines; SUPER, Surgical techniQe rePorting chEcklist and standaRds.