

Appendix:

Survey for the surgeons:

Q1	What is your age				1	20-30
					2	31-40
					3	41-50
					4	51-60
					5	61-70
					6	>70
Q2	What is your gender				1	female
					2	male
Q3	In which surgical specialty are you working				1	General Surgery
					2	Colorectal Surgery
					3	Upper GI Surgery
					4	Bariatric/Endocrine Surgery
					5	Orthopedic/Trauma Surgery
					6	Other Surgical Specialty (ENT, Urology, Gynaecology, Ophthalmology)
					7	Other non surgical specialty
					8	Not a medical professional
Q4	What type of hospital do you work at				1	General
					2	District
					3	Specialised
Q5	At what Level of institutional/hospital hierarchy are you currently working				1	Senior or Chief Consultant
					2	Junior Consultant
					3	Doctor in Training
					4	Nurse
					5	Self employed/Private Practice
					6	Others
Q6.1	Improvement in surgical treatment quality is needed in the following categories: Structure (Context in which care is delivered: Utilities, Financing, Staff)				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q6.2	Improvement in surgical treatment quality is needed in the following categories: Process (Transaction between patients and providers)				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q6.3	Improvement in surgical treatment quality is needed in the following categories: Outcome Measurement (Effects of healthcare on the health status of patients)				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given
Q7.1	Please rank the following categories according to their capability to improve overall quality (1 biggest impact, 3 lowest impact) Structure (Context in which care is delivered: Utilities, Financing, Staff)				1	highest impact
					2	
					3	lowest impact
Q7.2	Please rank the following categories according to their capability to improve overall quality (1 biggest impact, 3 lowest impact) Structure (Context in which care is delivered: Utilities, Financing, Staff)				1	highest impact

					2	
					3	lowest impact
Q7.3	Please rank the following categories according to their capability to improve overall quality (1 biggest impact, 3 lowest impact) Structure (Context in which care is delivered: Utilities, Financing, Staff)				1	highest impact
					2	
					3	lowest impact
Q8.1	Concerning the "process" category the American College of Surgeons has defined several chronological steps describing the before mentioned category. In your opinion can an improvement in the following steps lead to an improvement in overall quality				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q8.2	Concerning the "process" category the American College of Surgeons has defined several chronological steps describing the before mentioned category. In your opinion can an improvement in the following steps lead to an improvement in overall quality				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q8.3	Concerning the "process" category the American College of Surgeons has defined several chronological steps describing the before mentioned category. In your opinion can an improvement in the following steps lead to an improvement in overall quality				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q8.4	Concerning the "process" category the American College of Surgeons has defined several chronological steps describing the before mentioned category. In your opinion can an improvement in the following steps lead to an improvement in overall quality				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q8.5	Concerning the "process" category the American College of Surgeons has defined several chronological steps describing the before mentioned category. In your opinion can an improvement in the following steps lead to an improvement in overall quality				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given
Q9.1	Which of the following steps can improve overall quality AND need further investigation				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q9.2	Which of the following steps can improve overall quality AND need further investigation				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q9.3	Which of the following steps can improve overall quality AND need further investigation				1	strongly disagree
					2	disagree
					3	not decided

					4	agree
					5	strongly agree
Q9.4	Which of the following steps can improve overall quality AND need further investigation				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q9.5	Which of the following steps can improve overall quality AND need further investigation				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given
Q10.1	Looking at specific elements of the intraoperative phase of care the following element will have a big impact on overall quality				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q10.2	Looking at specific elements of the intraoperative phase of care the following element will have a big impact on overall quality				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q10.3	Looking at specific elements of the intraoperative phase of care the following element will have a big impact on overall quality				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q10.4	Looking at specific elements of the intraoperative phase of care the following element will have a big impact on overall quality				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given
Q11.1	What is your experience with intraoperative processes at your institution?				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q11.2	What is your experience with intraoperative processes at your institution?				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given
Q12.1	Concerning the team members and preoperative readiness				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q12.2	Concerning the team members and preoperative readiness				1	strongly disagree
					2	disagree
					3	not decided

					4	agree
					5	strongly agree
Q12.3	Concerning the team members and preoperative readiness				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given
Q13.1	The following team members of the operating team are informed about the indication for, the type of and the milestones of the procedure?				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q13.2	The following team members of the operating team are informed about the indication for, the type of and the milestones of the procedure?				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q13.3	The following team members of the operating team are informed about the indication for, the type of and the milestones of the procedure?				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q13.4	The following team members of the operating team are informed about the indication for, the type of and the milestones of the procedure?				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given
Q14.1	Please rank the following aspects in their capability to affect outcome				1	highest impact
					2	
					3	lowest impact
Q14.2	Please rank the following aspects in their capability to affect outcome				1	highest impact
					2	
					3	lowest impact
Q14.3	Please rank the following aspects in their capability to affect outcome				1	highest impact
					2	
					3	lowest impact
Q15.1	Addressing the improvement of intraoperative processes the following intervention will most likely be effective in avoiding intraoperative delays/variability of operation times				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q15.2	Addressing the improvement of intraoperative processes the following intervention will most likely be effective in avoiding intraoperative delays/variability of operation times				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q15.3	Addressing the improvement of intraoperative processes the following intervention will most likely be effective in avoiding intraoperative delays/variability of operation times				1	strongly disagree
					2	disagree
					3	not decided

					4	agree
					5	strongly agree
Q15.4	Addressing the improvement of intraoperative processes the following intervention will most likely be effective in avoiding intraoperative delays/variability of operation times				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q15.5	Addressing the improvement of intraoperative processes the following intervention will most likely be effective in avoiding intraoperative delays/variability of operation times				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q15.6	Addressing the improvement of intraoperative processes the following intervention will most likely be effective in avoiding intraoperative delays/variability of operation times				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given
Q16.1	Addressing the improvement of intraoperative processes the following intervention will be effective in avoiding intraoperative complications				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q16.2	Addressing the improvement of intraoperative processes the following intervention will be effective in avoiding intraoperative complications				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q16.3	Addressing the improvement of intraoperative processes the following intervention will be effective in avoiding intraoperative complications				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q16.4	Addressing the improvement of intraoperative processes the following intervention will be effective in avoiding intraoperative complications				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q16.5	Addressing the improvement of intraoperative processes the following intervention will be effective in avoiding intraoperative complications				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q16.6	Addressing the improvement of intraoperative processes the following intervention will be effective in avoiding intraoperative complications				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given

Q17.1	The following element is a likely pitfall in quality improvement programs for intraoperative processes	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
Q17.2	The following element is a likely pitfall in quality improvement programs for intraoperative processes	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
Q17.3	The following element is a likely pitfall in quality improvement programs for intraoperative processes	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
Q17.4	The following element is a likely pitfall in quality improvement programs for intraoperative processes	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
Q17.5	The following element is a likely pitfall in quality improvement programs for intraoperative processes	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
		1	no Comment given
		2	Comment given
Q18.1	Standardisation of operative procedures should be lead the following team members respectively these team members should be involved	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
Q18.2	Standardisation of operative procedures should be lead the following team members respectively these team members should be involved	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
Q18.3	Standardisation of operative procedures should be lead the following team members respectively these team members should be involved	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
Q18.4	Standardisation of operative procedures should be lead the following team members respectively these team members should be involved	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
Q18.5	Standardisation of operative procedures should be lead the following team members respectively these team members should be involved	1	strongly disagree
		2	disagree
		3	not decided
		4	agree
		5	strongly agree
		1	no Comment given

					2	Comment given
Q19.1	The degree of standardisation of surgical procedures should involve the following				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q19.2	The degree of standardisation of surgical procedures should involve the following				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q19.3	The degree of standardisation of surgical procedures should involve the following				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
Q19.4	The degree of standardisation of surgical procedures should involve the following				1	strongly disagree
					2	disagree
					3	not decided
					4	agree
					5	strongly agree
					1	no Comment given
					2	Comment given
Q20.1	Concerning the future of surgical interventions which elements of standardisation are you expecting to see in clinical practice in the next 20 years				1	in 95% of surgical procedures in your specialty
					2	in 75% of surgical procedures in your specialty
					3	in 50% of surgical procedures in your specialty
					4	in 25% of surgical procedures in your specialty
					5	in less than 5% of surgical procedures in your specialty
Q20.2	Concerning the future of surgical interventions which elements of standardisation are you expecting to see in clinical practice in the next 20 years				1	in 95% of surgical procedures in your specialty
					2	in 75% of surgical procedures in your specialty
					3	in 50% of surgical procedures in your specialty
					4	in 25% of surgical procedures in your specialty
					5	in less than 5% of surgical procedures in your specialty
Q20.3	Concerning the future of surgical interventions which elements of standardisation are you expecting to see in clinical practice in the next 20 years				1	in 95% of surgical procedures in your specialty
					2	in 75% of surgical procedures in your specialty
					3	in 50% of surgical procedures in your specialty
					4	in 25% of surgical procedures in your specialty

					5	in less than 5% of surgical procedures in your specialty
Q20.4	Concerning the future of surgical interventions which elements of standardisation are you expecting to see in clinical practice in the next 20 years				1	in 95% of surgical procedures in your specialty
					2	in 75% of surgical procedures in your specialty
					3	in 50% of surgical procedures in your specialty
					4	in 25% of surgical procedures in your specialty
					5	in less than 5% of surgical procedures in your specialty
Q20.5	Concerning the future of surgical interventions which elements of standardisation are you expecting to see in clinical practice in the next 20 years				1	in 95% of surgical procedures in your specialty
					2	in 75% of surgical procedures in your specialty
					3	in 50% of surgical procedures in your specialty
					4	in 25% of surgical procedures in your specialty
					5	in less than 5% of surgical procedures in your specialty
					1	no Comment given
					2	Comment given
Q21	Do you have any comments or questions?				1	no Comment given
					2	Comment given