Hurdles implementing complete sign-out (including iAE)

Most important items

HUMAN Hurdle	Possible solution
High turnover of employees	Training by e-learning with Q&A
Changing persons during operation	Include iAE during hand-over. Hand-over
	needs to structured and standardized.
Blame culture	Allow for open, repeating discussion so all
	can learn (style morbidity&mortality
	conference 1x/month)
	Listen-up, speak-up culture
	(everybody is part of the team)
Non-adherence to behavioral domains (WHO BARS)	Video-based e-learning.
"Why do we need to do this?"	Explain rational (e-learning, video, team training). Demonstrate relevance for the patient.
	Not all minor event needs to be recorded.
	Use definition such as iAE= "Deviation from
	the normal (ideal) course to be expected".
	Abweichung vom normaenl (ideal) zu
	erwartenden Verlauf
Anesthetist doctors and anesthetist nurses	Standardization, definitions (use existing
might not have the same understanding of	tools e.g. AQUA). All must be patient-
iAE.	centered.
Surgeons might not see the need to document iAE	everything must be patient-centered
How to react if something went not ideally	Allow for open discussions. Listen-up,
in another group of personnel? (eg.	speak-up culture. (e.g. if an iAE is
"Anesthetist thinks it is bleeding too much")	mentioned (even by another group), it is recorded).
How to keep the motivation after the study	Demonstrate relevance for patient,
is finished?	repetitive feedback (group discussions)
Not everything is of same importance to all.	Discuss protocol by hospital, by specialty,
	by personnel group (surgeons, anesthetists,
	scrub nurses, positioning persons).
Quantity is not quality. To fill out a form	Regular feedback to all stakeholders.
does not mean it is well done.	

ADMINISTRATIVE Hurdle	Possible solution
How to document?	For study: paper. Do not invest too much
	time to make it perfect.
	Post study: must be electronic (integrated
	in CIS), use standardized forms.

Timing of sign-out?	Use uniforms definition in hospital (e.g.
Tilling of Sign-out:	
	wound closure, or extraction of endoscope
	for minimal invasive procedures)
Who leads sign-out?	One person goes through check-list. One
	lead!. All are silent. Give time to prepare for
	sign-out (ask if all are ready for sign-out).
Who must be present during sign-out?	Ideally all 4 personnel groups (positioning
	person can be excused).
When to announce and to record iAE?	Announcing of iAE should be included in
	sign-out in a standardized manner. Give
	time to every personnel group to announce
	individually.
	Grading can be done afterwards.
	Recording can be done as it happened
	(most likely only possible for anesthesia and
	positionning persons)
What if iAE happens after sing-out	Include second check for iAE (for example
	during hand-over to wake-up area).
Document only relevant iAE.	Specific list per surgical specialty and per
But what is relevant?	personnel group (for surgeons, anesthetists,
	scrub nurses, positioning persons).
"Overreporting", too many iAE are	Awareness for quality improvement
documented	through enhanced reporting
Time issue.	Need for investment

Important next steps:

- 1. Information. Inform all stakeholders in your hospital that CIBOSurg study is ongoing within some departments and the gained information will be used to optimize the implementation of the sign-out and the recording of the iAE in the entire hospital. Prepare for roll-out.
- 2. Training. Train all personal. Everbody must be involved.
- 3. Perenisation: think already now how to perenize the sign-out and the recording of iAE. Needs repeating analysis of quality.