	Type and duration	Intervention	Comparator	Primary outcome	Results	Other comments/limitations
Author, year,	of study/					
reference	setting					
Bellchambers,	RCT	Disposable	Reusable fabric	SSI using the wound	Sternal wounds:	Allocation was stratified according to
1999 ¹⁴		paper drape system	drapes (not	scoring system		whether or not the patient had previous
	18 months (July 1995 -	including an	specified)	ASEPSIS (Additional	Intervention: 13/250	coronary artery surgery.
	December 1996)	iodophor-	including an	treatment the		
		impregnated	iodophor-	presence of Serous	Comparator: 12/236	Patients were allocated using sealed
	Australia	adhesive plastic	impregnated	disaharga Erutharga		envelopes containing a series of
		drape, which	adhesive plastic	discharge, Erythema,	<i>P</i> =0.87	computer_generated random numbers
	505 coronary artery	covered the central	drape covering	Purulent discharge		computer-generated random numbers.
	surgery patients	thorax and	the anterior	and Separation of the	Leg wounds:	Outcome assessor blinded
		abdomen (no	thorax.	deep tissues, the		outcome assessor onnaed.
	Each patient followed	further	T1	Isolation of bacteria	Intervention: 27/234	15 patients died during the follow-up
	up for 3 months	specifications for	The operating	and the duration of	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	period of the study. No further
	1	this type of drape).	surgeon,	inpatient Stav).	Comparator: 31/216	comments on the cause of death.
	Tertiary referral centre		assistants	1	D 0 50	
	for cardiac surgery	The operating	and scrub nurses		P =0.78	
		surgeon, assistants	the same	The total score		
		and scrub nurses	material as the	used to reflect the		
		wore gowns of the	drapes	severity of infection is		
		same material as	urapes.	as follows:		
		the drapes.		0–10 🗆 🗆 satisfactory		
				healing		
				11–20 🗆 disturbance		
				of healing		
				21–30 🗆 🗆 minor		
				wound infection		
				$31-40 \square \square$ moderate		
				wound infection		
				>41 🗆 severe wound		
				infection.		

Comparison 2.1: Single-use disposable drapes and/or surgical gowns vs. reusable drapes and/or surgical gowns

	Type and duration	Intervention	Comparator	Primary outcome	Results	Other comments/limitations
Author, year,	of study/					
reference	setting					
Belkin, 1998	Quasi-RCT (2-week alternate cycle use of intervention and comparator), 5 months USA Class 1 clean and class 2 clean-contaminated General, cardiothoracic, orthopaedic, neuro- surgery, plastic and other surgery Each patient followed up 7 to 28 days Teaching hospital	Disposable, non- woven gowns and drapes (spun-laced material identified commercially as Sontara®, Jacob Holm Group, Basel, Switzerland)	Reusable fabric gowns and drapes (128- thread count fabric consisting of a blend of 65% polyester, 34% cotton, and 1% stainless steel. Sleeves and front of the gowns were made with two- ply.	Infected wound: defined as when pus is visible in wound (not matching with CDC definition).	Wound infection: Intervention: 108/2139 Comparator: 133/2223 P =0.177	Excluded from the study: - classes 3 and 4: contaminated or dirty - ophthalmology - no visible wound - any procedure performed outside the operating room - if no primary closure Outcome assessor blinded

	Type and duration	Intervention	Comparator	Primary outcome	Results	Other comments/limitations
Author, year,	of study/					
reference	setting					
Castro Ferrer,	Observational, single	Single-use	Conventional	Wound infection rate	Wound infection	- Additional outcomes were also
2004 16	non-teaching centre	adhesive surgical	reusable drapes	(incisional SSI)	Single-use: 31/421	analyzed, such as staff satisfaction.
	One year of observation	drapes (the	and gowns		(7.4%)	– Analysis of the different properties of
[Full text in	(before intervention and	adhesive concept			Reusable drapes	the new material was done, that is:
Spanish]	after intervention);	applies to how the			18/396 (4.5%)	- impermeability
	6 months of training	drape is secured to			Stratified by type of	- isolation
	(wash-in phase) -	the surrounding			surgical	- inquiti absorption
	single-use drapes	area of the surgical			contamination:	resistance.
		field).			Clean:	
	Spain				I: 8/204 (3.9%)	Potential bias may have been introduced
		The intervention			C: 2/167 (1.29%)	due to different patient populations in the
	Type of procedures:	also included non-			Clean-contaminated	2 study periods. Nevertheless, the type of
	general surgery	reusable gowns			I: 5/96 (5.2%)	surgery regarding the degree of
		(Klinidrape,			C: 3/100 (3%)	contamination seems equipoise between
		Molnlycke Health			Contaminated-dirty	both periods. No data on additional risk
		Care).			I: 11/76 (14.5%)	factors that may have influenced SSI,
					C: 8/83 (9.6%)	such as the ASA score, are reported. No
					Dirty	data on the degree of wound infection.
					I: 7/45 (15.6%)	
					C: 5/46 (10.8%)	- No data about blinding assessment of
						SSI is reported or participant blinding.
						- Interestingly, adverse effects of
						adhesive drapes are taken into
						consideration (9% of skin rash or
						eczema).

	Type and duration	Intervention	Comparator	Primary outcome	Results	Other comments/limitations
Author, year,	of study/					
reference	setting					
Gallagher,	Prospective non-	Simplified draping	Traditional	Suspected and	Intervention: 1/250	Intervention procedures performed by the
2007 17	randomized study, 3	method: disposable	draping: involves	confirmed infection		same experienced operator (first operator
	years	single adhesive	the use of		Comparator: 6/114	experience >500 pacing procedures
		fenestrated drape	drapas: adhasiya		R = 0.014	before the current series); control
	Italy	designed originally	strips and	Definition not	P =0.014	procedures performed by 3 other
	264 macamakan and	for use in cardiac	draping clamps	Definition not		operators in the same catheterization
	implentable cordioverter	catheterization.	are used to	provided		laboratory over the same period. These
	defibrillator nationta		maintain the			operators were less experienced, each
	denormator patients		position of			having first operator experience of <100
			drapes.			cases at the start of the study period.
						 Cephalic access was used for 71% of ventricular leads and 60% of atrial leads; in both cases significantly lower proportions than in the study group (<i>P</i>= 0.001) Poor comparability between intervention and comparator.
Treggiari,	Prospective, non-	Disposable non-	Conventional	Wound infection	Wound infection:	– SSI definitions not reported
1992 ¹⁸	randomized, non-	woven fabric	reusable cotton	(named as		 Surveillance only until postoperative
	controlled study	drapes and gowns	drapes and	"postoperative	Non-woven fabric	day 10.
[Full text in		(TNT fabric 450).	gowns.	infection)	drapes: 4/25	
Italian]	Italy				Conventional cotton	
					drapas: 4/25	
					urapes. 4/25	
					Non-significant	

SSI: surgical site infection; RCT: randomized controlled trial; CDC: Centers for Disease Control and Prevention; I: Intervention; C: Comparator.