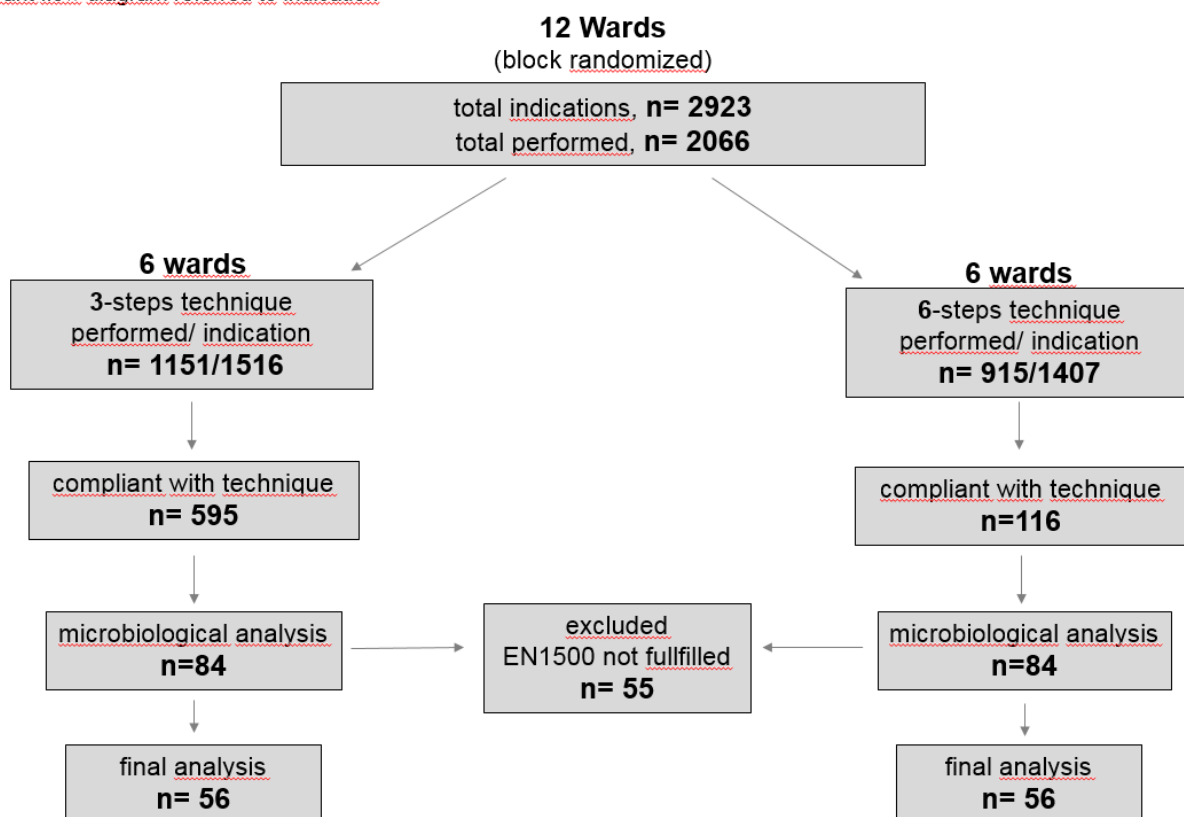


# 1. Participant Flow

Participant flow diagram referred to indication



## 2. Baseline Characteristics

Observed healthcare workers		3-step technique (n=153)		6-step technique (n=141)		p-value *
<b>Gender</b>	female	82	53.6%	76	53.9%	0.958
<b>Age</b>	<26	30	19.6%	25	17.7%	0.876
	26-35	49	32.0%	43	30.5%	
	36-45	40	26.1%	34	24.1%	
	46-55	25	16.3%	28	19.9%	
	>55	9	5.9%	11	7.8%	
<b>Profession</b>	Nurse	55	36.0%	46	32.6%	0.874
	Nurse-assistant	23	15.0%	20	14.2%	
	Medical student	5	3.3%	6	4.3%	
	Resident	20	13.1%	14	9.9%	
	Chief resident	12	7.8%	10	7.1%	
	Chair	8	5.2%	10	7.1%	
	Other medical staff	30	19.6%	35	24.8%	
<b>Finger rings **</b>		8	5.2%	17	12.1%	<b>0.039</b>
<b>Nail polish</b>		2	1.3%	5	3.6%	0.266
<b>Artificial finger nails</b>		0	0.0%	4	2.8%	0.052
<b>Participation educational tutorial</b>		55	64.1%	82	58.2%	0.300

**Table 1:** Distribution of observed health care worker's characteristics according to hand hygiene technique assignment.

\* Significant p-values are printed in bold

\*\* other than a wedding ring

### 3. Outcome Measures

#### 3.1 Primary endpoint

	3-step technique (n=1151)		6-step technique (n=915)	
Compliance with all steps	595	51.7%	116	12.7%

**Table 2:** Compliance with the assigned technique

	3-step technique		6-step technique	
Reduction factor (median and interquartile range)	0.97 log <sub>10</sub> CFU	0.39-1.59	1.04 log <sub>10</sub> CFU	0.49-1.52

**Table 3:** Reduction of bacterial counts on the hands of healthcare workers

#### 3.2 Secondary endpoint

Hand hygiene indication	3-step technique (n=1516)		6-step technique (n=1407)	
Before touching a patient	489	32.3%	386	27.4%
After touching a patient	671	44.3%	516	36.7%
Before clean/aseptic procedure	31	2.0%	93	6.6%
After body fluid exposure risk	70	4.6%	129	9.2%
After touching patient surroundings	255	16.8%	283	20.1%

**Table 4:** Distribution of observed hand hygiene indications according to hand hygiene technique assignment (overall p-value <0.001, chi square test).

## **4. Adverse Effects**

There were no adverse events associated with this trial.