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 Even conventional endoscopic hemostasis is primary treatment of gastrointestinal bleeding, it is sometimes difficult since it needs sophiscated targeting, and experienced skills.
Nexpowder (Nextbiomedical CO., Incheon, South Korea)

is a newly developed endoscopic hemostatic powder generating gelation effect on bleeding focus.









Add on effect of New Hemostatic Spray 'Nexpowder' on Conventional Endoscopic Treatment

in managing Non-variceal Upper Gastrointestinal Bleeding

D

: A Prospective, multi-center, Randomized Controlled Trial

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Consecutive Acute upper GI bleeding patients (>18y) Multicenter and randomized controlled trial (March 2019 to March 2020 in Korea) Emergency Endoscopy Forrest classification Ia, Ib, and IIa who achieved immediate hemostasis

through **Conventional Endoscopic Therapy** (CET) (n=141)



Compare Outcome variables

Primary: re-bleeding rate in 3 days and 30 days after therapy Secondary: safety profiles for Nexpowder.

(Trial registration number: NCT04124588)

Inclusion Criteria

С

Consecutive patients (>18 years) with acute UGIB Forrest classification Ia, Ib, and IIa achieved immediate hemostasis through (CET)

	Exclusion Criteria	
Un	corrected coagulopathy	

Continuous anticoagulantian Continuous anticoagulant or aspirin Pregnant and lactating women Endoscopic treatment is contraindicated due to comorbid diseases, Participants who participanted any other clinical trial

Table 1. Baseline characteristics					
	Case	Control	Р		
	Group	Group			
	(n=71)	(n=70)			
Enrolled hospital			0.08		
GMC, n(%)	43(60.6%)	45(64.3%)			
IH, n(%)	12(16.9%)	11(15.7%)			
SCH, n(%)	16(22.5%)	14(20.0%)			
Age, mean±SD	64.7±13.9	63.5±14.6	0.64		
Female, n(%)	15(21.1%)	21(30.0%)	0.31		
Height(cm),mean±SD	166.3±8.5	165.1±9.2	0.41		
Weight(cm),mean±SD	63.21±15.3	63.2±12.0	0.97		
Systolic BP(mmHg),mean±SD	121.5±16.8	118.9±19.4	0.39		
Diastolic BP (mmHg),mean±SD	70.0±10.9	71.1±12.8	0.56		
Pulse(bpm),mean±SD	81.1±16.7	83.6±14.0	0.33		
Temperature(°C),mean±SD	36.7±0.4	36.7±0.4	0.99		
RR	19.2±3.6	19.1±1.9	0.53		
GBS score	10.2±4.2	10.9±3.9	0.27		

Result

Abbreviation: GMC, Gil medical cancer; IH, Inha medical center; SCH, Sunchunhang medical center; SD, standard deviation BP, blood pressure; RR, respiratory rate; GBS, Glasgow-Blatchford bleeding score

Table 2. Endoscopic findings between groups

	Case Group (n=71)	Control Group (n=70)	Р
lcer type (%)			0.90
Forrest Ia, n(%)	11(15.5%)	12 (17.1)	
Forrest Ib, n(%)	40(56.3%)	43(61.4%)	
Forrest IIa, n(%)	20(28.2%)	15(21.4%)	
Cause of bleeding			0.22
Gastric ulcer	53(74.6%)	49(70.0%)	
Duodenal ulcer	18(25.4%)	21(30.0%)	
ite of bleeding			0.33
Upper body	16(22.5%)	22(31.5%)	
Lower body	14(19.7%)	10(14.3%)	
Antrum	23(32.4%)	17(24.3%)	
Duodenum	18(25.4%)	21(30.0%)	
Indoscopic bleeding co	ontrol method		0.42
efore randomization			
Epinephrine	9(12.7%)	6(8.6%)	
Hemoclipping	10(14.1%)	12(17.1%)	
Forcep	32(45.1%)	27(38.6%)	
Hemocoagulation	16(22.5%)	20(28.6%)	

Table 3. Comparison	for	re-bleeding	risk	between	case	and
control group						

	Case Group (n=71)	Control Group (n=70)	Р
3day re-bleeding case, n (%)	3 (4.2%)	11(15.7%)	0.02
30day re-bleeding case, n (%)	3(4.2%)	5(7.1%)	0.70

During study and follow up period, there was no adverse event regarding Nexpowder

E	Conclusion	

Nexpowder application with conventional endoscopic therapy(CET) was safe and effective in achieving acute and subacute hemostasis for UGIB as compared to those of CET only group

Nexpowder application during CET might be promising choice for physicians to care in acute emergent UGIB setting.

Disclosure of Conflicts of Interest

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