# Contents Supplement

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# **Supplementary Figure:**

Study name				Ever			
	Event rate	Lower limit	Upper limit	and	95%	CI	
Nakamura 2024	0.01	0.00	0.07				
Uemura 2019	0.02	0.00	0.11				
Pooled	0.01	0.00	0.05				

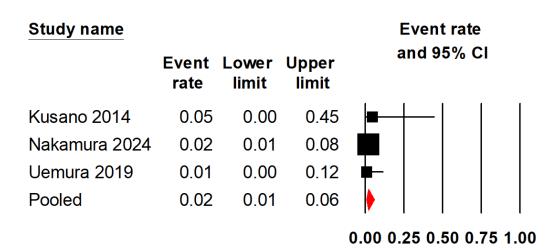
0.00 0.25 0.50 0.75 1.00

# Perforation (Na Alginate)

Supplementary Figure 1: Perforation rates with 0.6 % Na Alginate

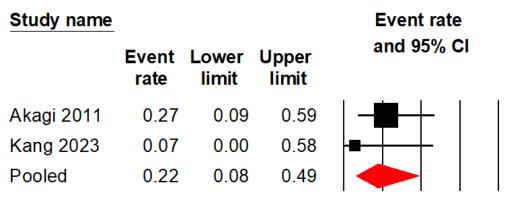
Study name				Event rate
	Event rate	Lower limit	Upper limit	and 95% Cl
Akagi 2011	0.27	0.09	0.59	
Kusano 2014	0.05	0.00	0.45	
Kang 2023	0.07	0.00	0.58	
Nakamura 2024	0.02	0.01	80.0	
Uemura 2019	0.01	0.00	0.12	●
Pooled	0.05	0.01	0.20	
				0.00 0.25 0.50 0.75 1.00
			Delay	ed bleeding (Na Alginate)

Supplementary Figure 2: Delayed bleeding with both 0.4 % and 0.6 % Na Alginate



Delayed bleeding (0.6 Na Alginate)

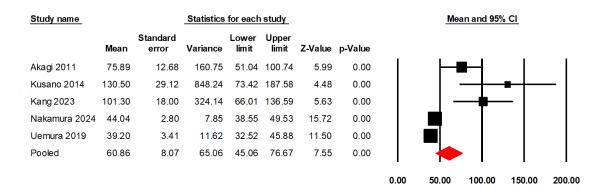
Supplementary Figure 3: Delayed bleeding (0.6 % Na Alginate)



0.00 0.25 0.50 0.75 1.00

Delayed bleeding (0.4 Na Alginate)

Supplementary Figure 4: Delayed bleeding (0.4 % Na Alginate)



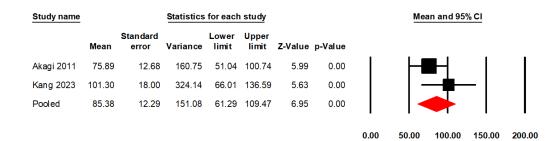
## Procedure time (Na Alginate)

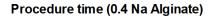
Supplementary Figure 5: Procedure time with (both 0.4 % and 0.6 % Na Alginate)

akamura 2024 44.04 2.80 7.85 38.55 49.53 15.72 0.00	tudy name			Statistics	for each	study			Me	an and 95%	6 CI
Nakamura 2024 44.04 2.80 7.85 38.55 49.53 15.72 0.00   Jemura 2019 39.20 3.41 11.62 32.52 45.88 11.50 0.00		Mean		Variance			Z-Value	p-Value			
Jemura 2019 39.20 3.41 11.62 32.52 45.88 11.50 0.00	Kusano 2014	130.50	29.12	848.24	73.42	187.58	4.48	0.00		+	-
	Nakamura 2024	44.04	2.80	7.85	38.55	49.53	15.72	0.00			
Pooled 45.77 6.54 42.80 32.94 58.59 7.00 0.00	Uemura 2019	39.20	3.41	11.62	32.52	45.88	11.50	0.00			
	Pooled	45.77	6.54	42.80	32.94	58.59	7.00	0.00	-		
0.00 50.00 100.00									 		150

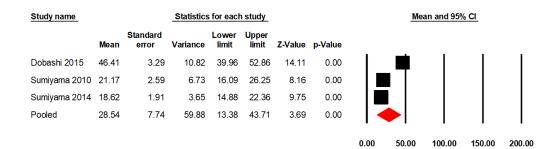
Procedure time (0.6 Na Alginate)

Supplementary Figure 6: Procedure time (0.6 % Na Alginate)





Supplementary Figure 7: Procedure time (0.4 % Na Alginate)



## Procedure time (Mesna)

### Supplementary Figure 8: Procedure time (Mesna)

tudy name			Statistics fo	or each st	udy		
	Difference in means	Standard error	Variance	Lower limit	Upper limit	Z-Value	p-Value
obashi 2015	-9.14	8.17	66.76	-25.15	6.87	-1.12	0.26
miyama 2014	-5.96	3.88	15.09	-13.57	1.65	-1.53	0.12
Pooled	-6.55	3.51	12.31	-13.42	0.33	-1.87	0.06

#### Comparative procedure time (Mesna)

Supplementary Figure 9: procedure time (Mesna vs normal saline)