Su1542



Is it necessary to close all defects with hemoclips after hot biopsy during colonoscopy?

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Background

Endoscopic resection during colonoscopy (hot biopsy, polypectomy, endoscopic mucosal resection) is associated with bleeding, and delayed bleeding, although infrequent, is perhaps one of the most troublesome complications.

Aim

To investigate if prophylactic application of hemoclips after hot biopsy treatment during colonoscopy can reduce post resection delayed bleeding.

Patients and methods

Between July 2003 and March 2011, a removed with hot biopsy in a private 2009 and March 2011 (period B), all mucosal defects after hot biopsy were closed with hemoclips. The incidences hot biopsy treatment were compared for period A and period B. Subgroup analysis regarding the location of the removed polyp and time to bleeding was conducted.

Results

Male (%)

Male (%)

Mean age (y)

Location

Period A

Period B

Total

Mean age (y)

Lesions treated with hot biopsy

Delayed bleeding after hot biopsy

Mean time to bleeding (median/range)

(160)

Period A

Cecum vs other site

Rb vs Other site

(117)

(104)

(145)

(226)

Table values are numbers of bleeding lesions, <% of total>, (number of total).

Mean lesion size (mm)

Mean lesion size (mm)

A total of 4936 polyps in 3008 patients in period A and 1488 polyps in 978 patients in period B were removed with hot biopsy. The overall incidences of delayed bleeding were 0.38% (19/4936) and 0.27% (4/1488) in period A and period B, respectively.

In period A, the incidence of delayed bleeding was significantly higher (2.7%, p < 0.001) for polyps located in the cecum than for polyps from other sites.

In period B, the incidence of delayed bleeding was significantly higher (2.5%, p < 0.001) for polyps located in the lower part of rectum than for polyps in other sites.

Comparison of characteristics in Period A and Period B

The median times to bleeding were 7 days and 4 days in period A and period B, respectively.

2003.7-2009.4 (Period A)

(no hemoclip)

(3008 patients)

1835 patients (61.0%)

59.8

4936

4.3

19 lesions (0.38%)

11 patients (57.9%)

59.4

7.5 day (7/0-20)

3<0.2%>

(1768)

(425)

4<0.2%>

(2193)

Period B

Cecum vs other site

Rb vs other site

3<0.3%>

(924)

(227)

3<0.3%>

(1151)

Distribution of Lesions with Delayed Bleeding after Hot Biopsy Treatment

(329)

(433)

(1165)

Rb = rectum(below the peritoneal reflection); Ra = rectum(above the peritoneal reflection);

RS =rectosigmoid; S = sigmoid; D = descending; T = transverse; A = ascending; C = cecum.

P < 0.001

NS

2009.5-2011.3 (Period B)

(hemoclip)

(978 patients)

534 patients (54.6%)

60.5

1488

4.2

4 lesions (0.27%)

4 patients (100%)

56.8

4.0

4.0 day (4/1-8)

9<2.7%>

(328)

9<2.0%>

(441)

P < 0.001

Total

19<0.4%>

(4936)

4<0.3%>

(1488)

23<0.4%>

(6424)

Conclusion

Closing all the defects after hot biopsy treatment did not reduce the overall incidence of delayed bleeding, however, it might reduce delayed bleeding of polyps located in the right-sided colon and could make subsequent colonoscopies for hemostatic procedures easier.

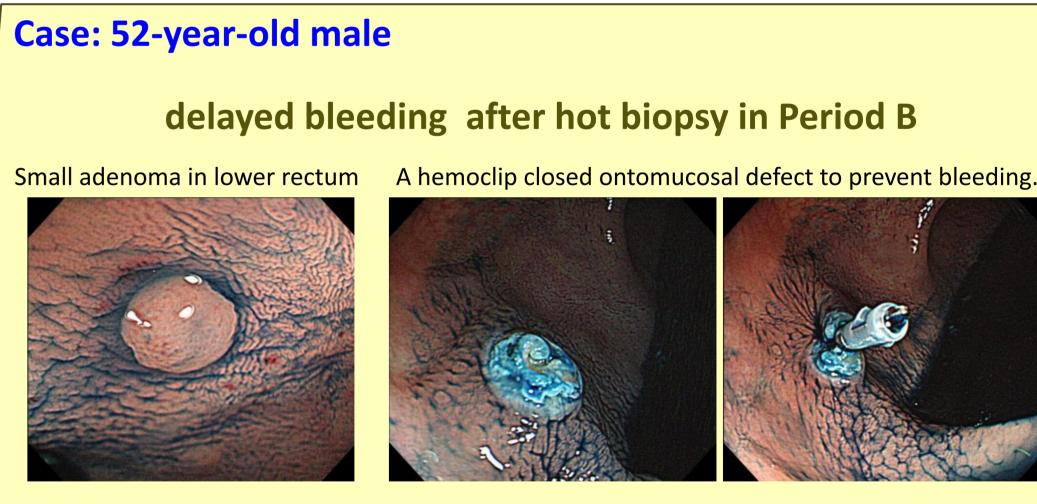
Delayed Bleeding after Hot Biopsy Treatment

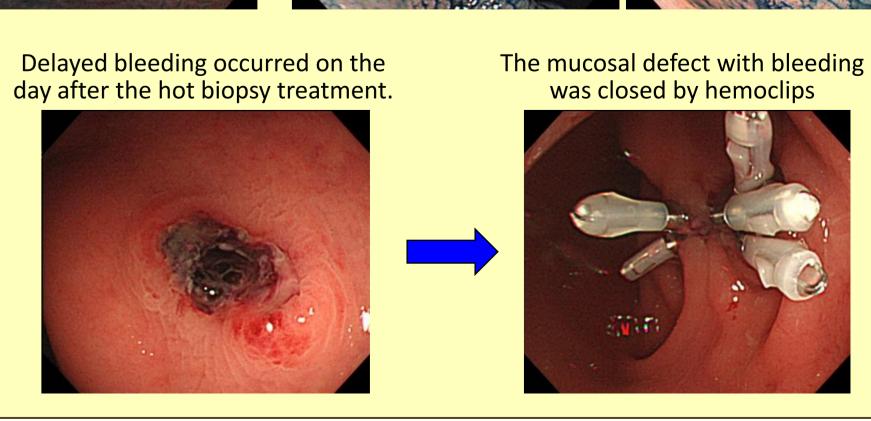
Period A (no hemoclip)									
Location	Gender	Age (y)	Macroscopic Type	Size (mm)	Histology	The time to bleeding (day)			
Cecum	M	71	lla	5	adenoma	3			
Cecum	F	30	lla	5	adenoma	3			
Cecum	M	61	lla	3	adenoma	6			
Cecum	F	50	lla	6	adenoma	7			
Cecum	F	62	lla	2	HP	7			
Cecum	M	68	lla	5	adenoma	8			
Cecum	M	60	lla	5	HP	8			
Cecum	M	58	lla	3	HP	11			
Cecum	F	73	lla	3	adenoma	20			
Ascending	M	40	lla	3	adenoma	4			
Ascending	F	55	lla	6	HP	9			
Ascending	M	68	Is(sessile)	7	HP	10			
Ascending	F	71	lla	4	adenoma	12			
Ascending	M	67	lla	6	adenoma	15			
Transverse	F	56	lla	4	HP	4			
Sigmoid	M	41	lla	7	adenoma	0			
RS	M	61	lla	6	HP	3			
Rb	M	67	lla	3	adenoma	1			
Rb	F	70	lla	4	HP	11			

Period B (hemoclip)

Location	Gender	Age (y)	Macroscopic Type	Size (mm)	Histology	The time to bleeding (day)
Rb	M	74	lla	3	HP	8
Rb	M	52	Is(sessile)	5	HP	1
Rb	M	59	lla	2	HP	5
Transverse	M	42	ls	6	adenoma	2

Case: 61-year-old male delayed bleeding after hot biopsy in Period A Mucosal defect after hot biopsy Small adenoma in cecum. treatment, no hemoclips used Delayed bleeding occurred 6 days The mucosal defect with bleeding after hot biopsy treatment. was closed by hemoclips





total of 3986 patients with 6424 polyps clinic was recruited in this study. During July 2003 and April 2009 (period A), no hemoclips were applied after hot biopsy for prophylactic purposes. Between May of delayed bleeding associated with the