Significance of Adjuvant Chemotherapy for Elderly Patients Over 80 Years Old in Colorectal Cancer

Yasunari Sawada(PGY-2)¹, Shigeaki Sawada¹, Shigeki Matsumoto^{1,2}, Masakazu Nagamori^{1,2}, Kenta Sukegawa^{1,2}, Fuminori Yamagishi¹, Tsutomu Fujii²

COI Disclosure

Yasunari Sawada

The author have no financial conflicts of interest to disclose concerning the presentation.



¹Department of Surgery, Itoigawa General Hospital, Niigata Federation of Agricultural Cooperative Associations, Niigata, JAPAN



²Department of Surgery and Science, Faculty of Medicine, Academic Assembly, University of Toyama, Toyama, JAPAN

Conclusions

Adjuvant Chemotherapy for over 80 years old in colorectal cancer could suggest that

it is crucial to aim for 6 month completion with fluoropyrimidine mono-therapy.

Patient and Methods

A total of 188 radical resection patients of colorectal cancer performed at our department from April 2017 to December 2022.

Among them 98 patients (52%) were treated with adjuvant chemotherapy under our criteria.

We retrospectively analyzed comparisons between the patients $aged \le 79$ years (Control group) and $aged \ge 80$ years (Elderly group).

Results

Table 1. Differences of patient characteristics between Control and Elderly group in patients with AC criteria

Age (years)*[range] 74.9 [33-91] 70.0 [33-79] 84.8 [80-99] Sex Male 50(51) 34(52) 16(48) n.s. BMI* (range) 22.6 [16.1-32.2] 22.8 [16.1-32.0] 22.5 [17.5-32.2] 0.6922 PS 2s 0(0) 0(0) 0(0) 0(0) 0.000 ASA-PS 1/Z/3/4 2/67/29/0 2/50/13/0 0/17/16/0 ASA-PS 3s 29(30) 13(20) 16(48) 0.0035 Location, rectum (%) 34(35) 26(40) 8(24) n.s. Comorbidities Comorbidities Comorbidities Comorbidities 19(19) 12(18) 7(21) n.s. Hypertension 32(33) 18(28) 14(42) n.s. Hypertension 32(33) 18(28) 14(42) n.s. Heart diseases 7(7) 4(6) 3(9) n.s. Humonary diseases 5(5) 4(6) 1(3) n.s. nothing 44(45) 29(45) 15(45) n.s. Laparoscopic operation 70(71) 50(77) 20(61) Op. time (min)* (range) 289.0 [60-574] 308.4 [14.5-74] 258.7 [60-417] 0.0158 Op. bleeding (m1)* (range) 88.5 [0.795] 79.5 [0.795] 104.1 [0.660] 0.4692 Complications none 68(69) 43(66) 25(76) 0.4575 CD Illas 6(6) 3(3) 3(3) 3(5) 0(0) n.s. Urinary tract infection 4(4) 3(5) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Bleeding of anastomosis 2(2) 1(2) 1(3) n.s. delirium 1(1) 1(2) 0(0) n.s. Urinary tract infection 4(4) 3(5) 1(3) n.s. Bleeding of anastomosis 2(2) 1(2) 1(3) n.s. delirium 1(1) 1(2) 0(0) n.s. aspiration pneumonia 4(4) 3(5) 1(3) n.s. others (aparticin preumonia 5(5) 5(5) 5(5) 5(5) 5(5) 5(5) 5(5) 5(5		January January 1				
Age (years)*[range] 74.9 (33-91] 70.0 [33-79] 84.8 [80-99] Sex Male 50(51) 34(52) 16(48) n.s. BMM* {range} 22.6 [16.1-32.2] 22.8 [16.1-32.0] 22.5 [17.5-32.2] 0.6922 PS 2≥ 0(0) 0(0) 0(0) 0(0) 0.00 ASA-PS 1/2/3/4 2/677/29/0 2/50/13/0 0/17/16/0 ASA-PS 3≥ 29(30) 13(20) 16(48) 0.0035 Location, rectum (%) 34(35) 26(40) 8(24) n.s. Comorbidities Comorbidities Comorbidities (>2) 34(35) 20(31) 14(42) n.s. DM 19(19) 12(18) 7(21) n.s. Hypertension 32(33) 18(28) 14(42) n.s. Pulmonary diseases 7(7) 4(6) 3(9) n.s. Pulmonary diseases 7(7) 4(6) 1(3) n.s. nothing 44(45) 29(45) 15(45) n.s. Laparoscopic operation 70(71) 50(77) 20(61) Op. time (min)* [range] 289.0 [60-574] 308.4 [143-574] 258.7 [60-417] 0.0158 Op. bleeding (mi)* [range] 88.5 [0.795] 79.5 [0.795] 104.1 [0-660] 0.492 Complications none 68(69) 43(66) 25(76) 0.4575 CD Illas 6(6) 3(5) 3(9) 0.0966 SSI 8(8) 7(11) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Leakage of anastomosis 2(2) 1(2) 1(3) n.s. Bleeding of anastomosis 2(2) 1(2) 1(3) n.s. eleilirum 1(1) 1(2) 0(0) n.s. Urinary tract infection 4(4) 3(5) 1(3) n.s. Bleeding of anastomosis 2(2) 1(2) 1(3) n.s. eleilirum 1(1) 1(2) 0(0) n.s. within 14 days after Op. 83(85) 55(85) 28(85) Pathological Stage II/II/IV 4/150/7 28/30/7 13/20/0 Adiuvant ves		all	Control group	Elderly group		
Sex Male 50(51) 34(52) 16(48) n.s. BMIF (range) 22.6 (16.1-32.2) 22.8 (16.1-32.0) 22.5(17.5-32.2) 0.697.2 PS 2s 0(0) 0(0) 0(0) 0(0) 0(0) 0.0001 ASA-PS 1/2/3/4 2/67/29/0 2/50/13/0 0/17/16/0 0.0035 ASA-PS 3s 29(30) 13(20) 16(48) 0.035 Comorbidities 0 2(31) 14(42) n.s. Comorbidities 0 12(18) 7(21) n.s. DM 19(19) 12(18) 7(21) n.s. Hypertension 32(33) 18(28) 14(42) n.s. Heart diseases 7(7) 4(6) 3(9) n.s. Pulmonary diseases 5(5) 4(6) 1(3) n.s. nothing 44(4(5) 29(45) 15(45) n.s. Laparoscopic operation 70(71) 50(77) 20(61) 0.015 Op. bleeding (ml)* (range) 88.5 (0.795) 79.5 (0.795)	Variables	n=98(%)	n=65(%)	n=33(%)	<i>p</i> -value	
BMI* (range) 22.6 [16.1-32.2] 22.8 [16.1-32.0] 22.5 [17.5-32.2] 0.6922 PS 2* 0(0) 0(0) 0(0) 0(0) 0(0) 0,0001 ASA-PS 1/2/3/4 29(30) 13(20) 16(48) 0.0035 Location, rectum (%) 34(35) 20(40) 8(24) n.s. Comorbidities Comorbidities (-2) 34(35) 20(31) 14(42) n.s. DM 19(19) 12(18) 7(21) n.s. Hypertension 32(33) 18(28) 14(42) n.s. Pulmonary diseases 7(7) 4(6) 3(9) n.s. Pulmonary diseases 5(5) 4(6) 1(3) n.s. nothing 44(45) 29(45) 15(45) n.s. Laparoscopic operation 70(71) 50(77) 20(61) Op. time (min)* [range] 289.0 [60-574] 388.5 [0-795) 79.5 [0-795) 104.1 [0-660] 0.4692 Complications none 68(69) 43(66) 3(5) 3(9) 0.058 SSI 8(8) 7(11) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Urinary tract infection 4(4) 3(5) 1(3) n.s. Urinary tract infection 4(4) 3(5) 1(3) n.s. delirium 1(1) 1(2) 0(0) n.s. aspiration pneumonia 4(4) 3(5) 1(3) n.s. others 12(12) 6(9) 6(18) n.s. Post Op. hospital stay (days)* [range] 16(8-61) 15(8-54) 17(8-61) 0.4438 writhin 14 days after Op. 8(10) 8(24) 0,0001 8(24) 0,0013 0,0013 0,0035 0,0013 0,0013 0,0014 0,0015	Age (years) ^a [range]	74.9 [33-91]	70.0 [33-79]	84.8 [80-99]		
PS 2≤ 0(0) 0(0) 0(0) 0(0) <0.0001 ASA-PS 1/2/3/4 2/671/29/0 2/501/3/0 0/17/16/0 ASA-PS 1/2/3/4 2/671/29/0 2/501/3/0 0/17/16/0 ASA-PS 3≤ 29(30) 13(20) 16(48) 0.0035 Location, rectum (%) 34(35) 26(40) 8(24) n.s. Comorbidities Comorbidities Comorbidities Comorbidities Comorbidities Comorbidities Comorbidities DM 19(19) 12(18) 7(21) n.s. Hypertension 32(33) 18(28) 14(42) n.s. Heart diseases 7(7) 4(6) 3(9) n.s. Pulmonary diseases 5(5) 4(6) 1(3) n.s. nothing 44(45) 29(45) 15(45) n.s. Laparoscopic operation 70(71) 50(77) 20(61) Op. time (min) ¹ (range) 289,0 160-574] 308,4 [143-574] 258,7 [60-417] 0.0158 Op. bleeding (ml) ² (range) 88.5 [0-795] 79.5 [0-795] 104.1 [0-660] 0.4692 Complications none 68(69) 43(66) 25(76) 0.4575 CD IIIa≤ 6(6) 3(5) 3(9) 0.0966 SSI 8(8) 7(11) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Bleeding of anastomosis 2(2) 1(2) 1(3) n.s. Bleeding of anastomosis 2(2) 1(2) 1(3) n.s. delirium 1(1) 1(2) 0(0) n.s. aspiration pneumonia 4(4) 3(5) 1(3) n.s. delirium 1(1) 1(2) 0(0) n.s. aspiration pneumonia 4(4) 3(5) 1(3) n.s. POST Op. hospital stay (days) ¹ [range] 16 [8-61] 15 [8-54] 17 [8-61] 0.4438 writhin 14 days after Op. 70(71) 47(72) 23(70) writhin 14 days after Op. 83(85) 55(85) 28(85) Pathlological Stage II/III/IV 41/50/7 28/30/7 13/20/0 Pathlological Stage II/III/IV 41/50/7 28/30/7 13/20/0 Pathlological Stage II/III/IV 41/50/7 28/30/7 13/20/0	Sex Male	50(51)	34(52)	16(48)	n.s.	
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Comorbidities (>2) 34(35) 20(31) 14(42) n.s.	ocation, rectum (%)	34(35)	26(40)	8(24)	n.s.	
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Paper	Pulmonary diseases	5(5)	4(6)	1(3)	n.s.	
Op. time (min)a [range] 289.0 [60-574] 308.4 [143-574] 258.7 [60-417] 0.0158 Op. bleeding (ml)a [range] 88.5 [0-795] 79.5 [0-795] 104.1 [0-660] 0.4692 Complications 0.0096 0.4575 0.4575 0.4575 CD IIIa≤ 6(6) 3(5) 3(9) 0.0966 SSI 8(8) 7(11) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Ileus 3(3) 3(5) 0(0) n.s. Urinary tract infection 4(4) 3(5) 1(3) n.s. Bleeding of anastomosis 2(2) 1(2) 1(3) n.s. delirium 1(1) 1(2) 0(0) n.s. aspiration pneumonia 4(4) 3(5) 1(3) n.s. Post Op. hospital stay (days)a [range] 16 [8-61] 15 [8-54] 17 [8-61] 0.4438 within 14 days after Op. 70(71) 47(72) 23(70) within 21 days after Op. 83(85) 55(85) 28(85) Pathological Stage II/III/IV 41/50/7 28/30/7 17(52)	nothing	44(45)	29(45)	15(45)	n.s.	
Op. bleeding (ml)² (range) 88.5 [0-795] 79.5 [0-795] 104.1 [0-660] 0.4692 Complications none 68(69) 43(66) 25(76) 0.4575 CD IIIa≤ 6(6) 3(5) 3(9) 0.0966 SSI 8(8) 7(11) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Ileus 3(3) 3(5) 0(0) n.s. Urinary tract infection 4(4) 3(5) 1(3) n.s. Bleeding of anastomosis 2(2) 1(2) 1(3) n.s. delirium 1(1) 1(2) 0(0) n.s. aspiration pneumonia 4(4) 3(5) 1(3) n.s. Post Op. hospital stay (days)² [range] 16 [8-61] 15 [8-54] 17 [8-61] 0.4438 within 14 days after Op. 70(71) 47(72) 23(70) 23(70) within 21 days after Op. 83(85) 55(85) 28(85) Pathological Stage II/III/IV 41/50/7 28/30/7 13/20/0 Adjuvant ves 67(68) 50(77) 17(52) <td>aparoscopic operation</td> <td>70(71)</td> <td>50(77)</td> <td>20(61)</td> <td></td>	aparoscopic operation	70(71)	50(77)	20(61)		
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CD IIIa≤ 6(6) 3(5) 3(9) 0.0966 SSI 8(8) 7(11) 1(3) n.s. Leakage of anastomosis 5(5) 4(6) 1(3) n.s. Ileus 3(3) 3(5) 0(0) n.s. Urinary tract infection 4(4) 3(5) 1(3) n.s. Bleeding of anastomosis 2(2) 1(2) 1(3) n.s. delirium 1(1) 1(2) 0(0) n.s. aspiration pneumonia 4(4) 3(5) 1(3) n.s. others 12(12) 6(9) 6(18) n.s. Post Op. hospital stay (days) ^a [range] 16 [8-61] 15 [8-54] 17 [8-61] 0.4438 within 14 days after Op. 70(71) 47(72) 23(70) within 21 days after Op. 83(85) 55(85) 28(85) Pathological Stage II/III/IV 41/50/7 28/30/7 13/20/0 Adjuvant ves 67(68) 50(77) 17(52) 0.0106	Complications					
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Pathological Stage II/III/IV 41/50/7 28/30/7 13/20/0 Adjuvant, yes 50(77) 17(52) 0.0106	-	83(85)	55(85)	28(85)		
Adjuvant ves $67(68)$ $50(77)$ $17(52)$ 0.0106	-	41/50/7	28/30/7	13/20/0		
	Adjuvant, yes	67(68)	50(<mark>77</mark>)		0.0106	

Department of Surgery, Itoígawa General Hospítal, Níígata Federatíon of Agrícultural Cooperatíve Associations,

a Values of Average

Results

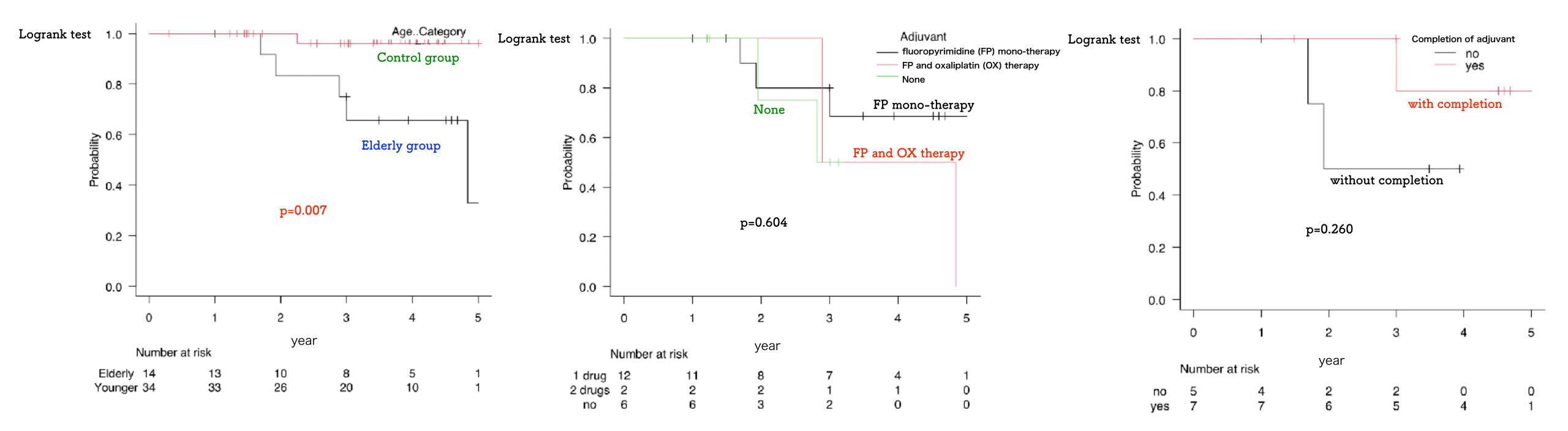


Figure 1. Difference of overall survival curve in pSt3+4 patient with AC between Control and Elderly group

Figure 2. Overall survival curve in pSt3+4 patient of Elderly group compared with AC regimen

Figure 3. Overall survival curve in pSt3+4 patient of Elderly group with or without completion of Single AC



Conclusions

Adjuvant Chemotherapy for over 80 years old in colorectal cancer could suggest that it is crucial to aim for 6 month completion with fluoropyrimidine mono-therapy.

