

Temporal changes in immune cell composition and cytokines in response to chemoradiation in rectal cancer

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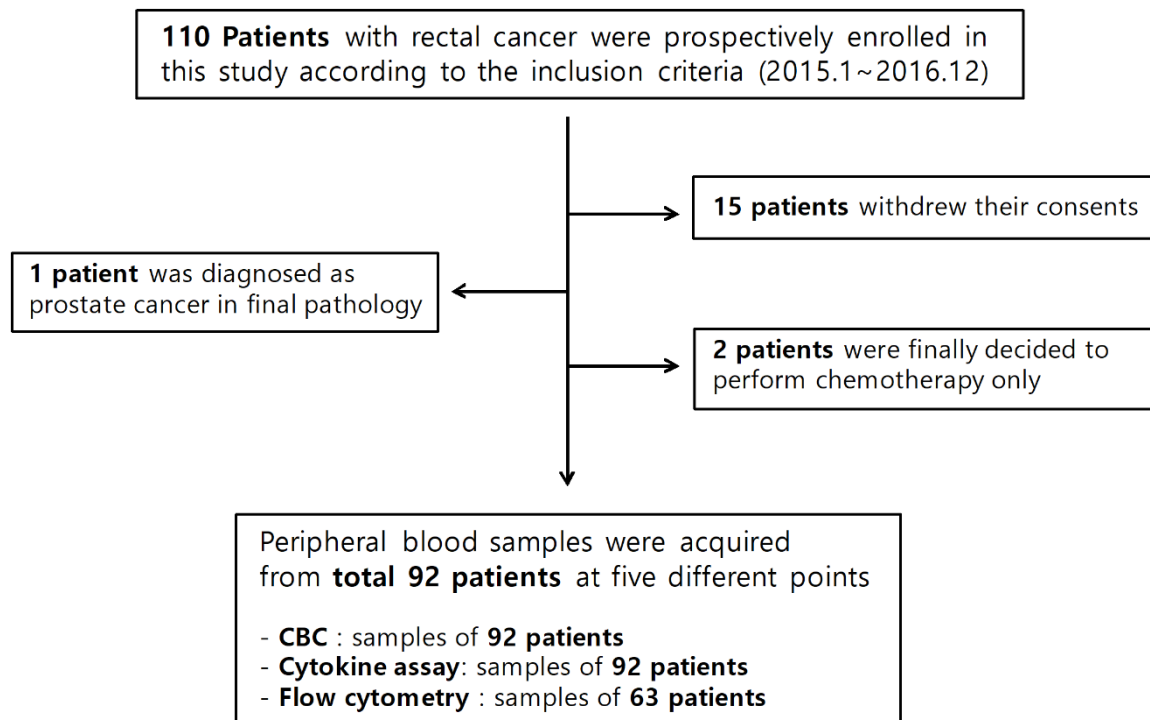
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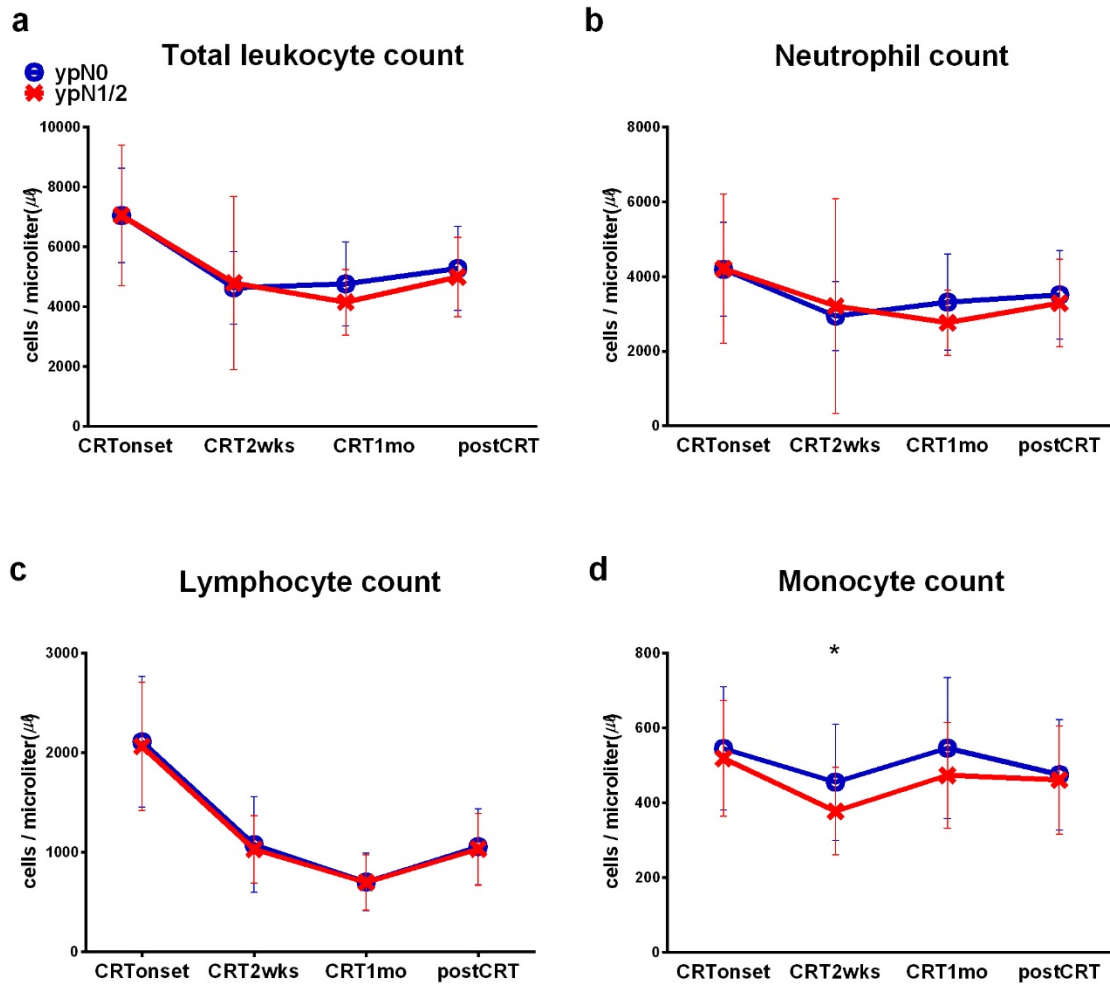
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Supplementary Figure S1



Supplementary Figure S1. Study flow diagram. CBC=complete blood count

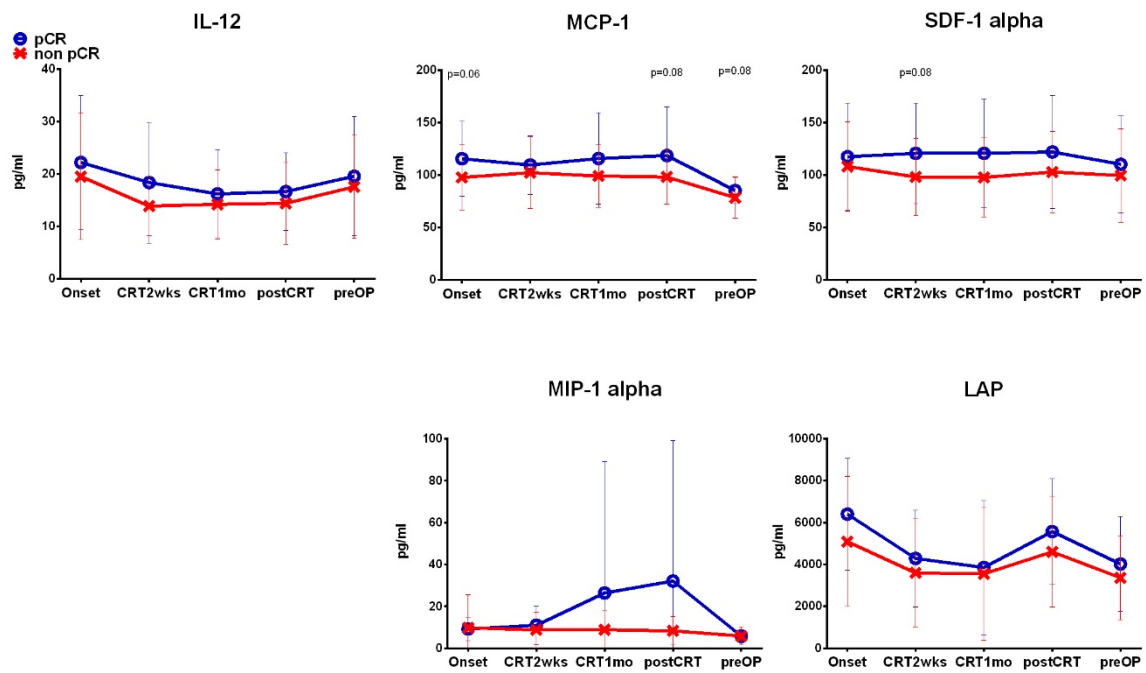
Supplementary Figure S2



Supplementary Figure S2. Predictive value of leukocyte components regarding residual lymph node metastasis. Patients were divided into two groups: patients without a residual lymph node metastasis (ypN0, n=63) and patients with a residual lymph node metastasis (ypN1 or ypN2, n=29). a) Mean($\pm$ standard deviation, SD) total leukocyte counts of the two groups at each time point. Repeated-measures ANOVA; time effect $p < 0.001$; group effect $p = 0.483$; time-group interaction $p = 0.255$. (b) Mean ($\pm$ SD) neutrophil counts of the two groups at each time

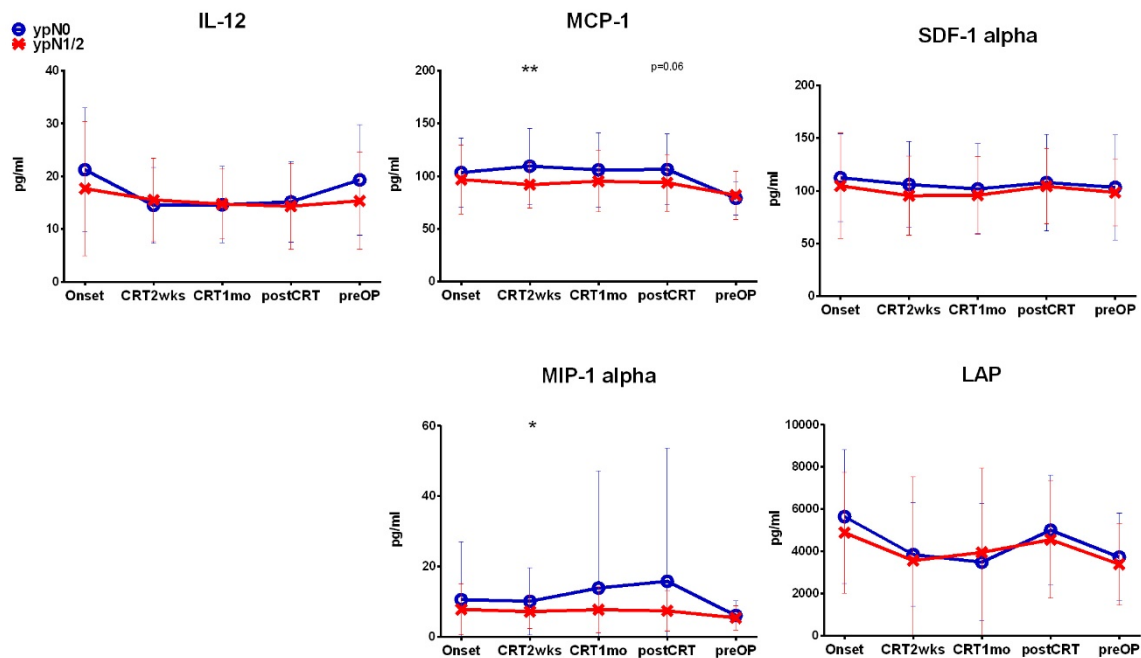
point. Repeated-measures ANOVA; time effect $p < 0.001$; group effect $p = 0.020$; time-group interaction $p = 0.120$. (c) Mean ($\pm$ SD) lymphocyte counts of the two groups at each time point. Repeated-measures ANOVA; time effect $p < 0.001$; group effect $p = 0.583$; time-group interaction $p = 0.939$. (d) Mean ($\pm$ SD) monocyte counts of the two groups at each time point. Repeated-measures ANOVA; time effect $p < 0.001$; group effect $p = 0.067$; time-group interaction $p = 0.258$. The intergroup differences were analysed using the two-tailed Welch's t-test. * $p < 0.05$; ** $p < 0.0125$ (adjusted significance level by Bonferroni's method); *** $p < 0.001$. CRTonset=the onset of CRT; CRT2wks= 2 weeks after the onset of CRT; CRT1mo=1 month after the onset of CRT; postCRT=1 month after the termination of CRT.

Supplementary Figure S3



Supplementary Figure S3. Predictive value of serum cytokine levels regarding pathologic complete response (pCR). Patients were divided into two groups: patients with a pCR (n=19) and patients without a pCR (n=73). Two-tailed Welch's T-test was used. * $p < 0.05$; ** $p < 0.01$ (adjusted significance level by Bonferroni's method); *** $p < 0.001$. Data are presented as the mean $\pm$ standard deviation. Onset=the onset of CRT; CRT2wks= 2 weeks after the onset of CRT; CRT1mo=1 month after the onset of CRT; postCRT=1 month after the termination of CRT; preOP=just before surgery.

Supplementary Figure S4



Supplementary Figure S4. Predictive value of serum cytokine levels regarding residual lymph node metastasis. Patients were divided into two groups: patients without a residual lymph node metastasis (ypN0, n=63) and patients with a residual lymph node metastasis (ypN1 or ypN2, n=29). Two-tailed Welch's T-test was used. * $p < 0.05$; ** $p < 0.01$ (adjusted significance level by Bonferroni's method); *** $p < 0.001$. Data are presented as the mean $\pm$ standard deviation. Onset=the onset of CRT; CRT2wks= 2 weeks after the onset of CRT; CRT1mo=1 month after the onset of CRT; postCRT=1 month after the termination of CRT; preOP=just before surgery.