

# New Method for Measuring Chemotherapeutic Efficacy Evaluation by Computer System

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# Abstract

- We have developed a device to measure the area of both primary and metastatic lesion, promptly and accurately.
- We will report on the usefulness of this device by indicating the example.

# Criteria for Evaluating efficacy

Type of Primary Lesion	Measurable lesion (a)	Not measurable, but evaluable lesion (b)	Diffusely infiltrated lesion (c)
Evaluating Scale	Tumor shrinkage rate	Macroscopic change Margin: flattening Ulcer: decrease	extension rate of affected area
CR	not detected (aCR)	not detected (bCR)	not detected (cCR)
PR	$\geq 50\%$ (aPR)	$\geq 50\%$ evaluated (bPR)	$\geq 50\%$ (cPR)
NC	$< 50\%$ (aNC)	$< 50\%$ evaluated (bNC)	$< 50\%$ (cNC)
MR	$\geq 25\%$ $< 50\%$ (aMR) $\geq 50\%$ ( $< 4\text{wks}$ ) (aMR)	$\geq 25\%$ $< 50\%$ (bMR) $\geq 50\%$ ( $< 4\text{wks}$ ) (bMR)	$\geq 25\%$ $< 50\%$ (cMR) $\geq 50\%$ ( $< 4\text{wks}$ ) (cMR)
PD	$\geq 25\%$ increase (aPD)	progression (bPD)	progression (cPD)

# Conclusions

- We have assessed the scope of the progress of gastric cancer over time by using a novel method for measuring the area of lesion in X-ray photograph accurately.
- Compared with the conventional methods, our method can be useful in measurement for lesion more promptly and accurately.