SUPPLEMENTARY MATERIALS

Fig. 1s Intersection over union (IOU).

Source: Keita Otani

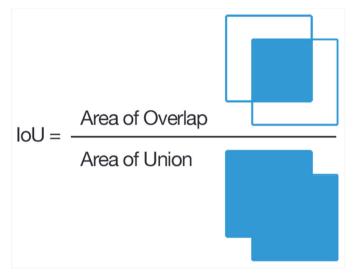




Table 1s. STROBE STATEMENT checklist of items that should be included in reports of Observational Studies

SECTION/TOPIC	Item No.	Checklist Item	Reported on page No. (of the accepted manuscript)
TITLE AND ABSTRACT	1	(a) Identification as a randomised trial in the title	1
		(b) Structured summary of trial design, methods, results, and conclusions (for specific guidance see CONSORT for abstracts)	2
INTRODUCTION			
Background/rationale	2	(a) Scientific background and explanation of rationale	3
Objectives		(b) Specific objectives or hypotheses	3
METHODS			
Trial design	3	(a) Description of trial design (such as parallel, factorial) including allocation ratio	3
Setting		(b) Important changes to methods after trial commencement (such as eligibility criteria), with reasons	4
Participants	4	(a) Eligibility criteria for participants	3
		(b) Settings and locations where the data were collected	
Interventions	5	The interventions for each group with sufficient details to allow replication, including how and when they were actually administered	
Outcomes	6	(a) Completely defined pre-specified primary and secondary outcome measures, including how and when they were assessed	4
		(b) Any changes to trial outcomes after the trial commenced, with reasons	4
Sample size	7	(a) How sample size was determined	

		(b) When applicable, explanation of any interim analyses and stopping guidelines	4
Randomization: sequence	8	(a) Method used to generate the random allocation sequence	4
generation			
		(b) Type of randomisation; details of any restriction (such as blocking and block size)	
Allocation: concealment	ocation: concealment 9 Mechanism used to implement the random allocation sequence (such as sequentially		4
mechanism		numbered containers), describing any steps taken to conceal the sequence until	
		interventions were assigned	
Implementation	10	Who generated the random allocation sequence, who enrolled participants, and who	
		assigned participants to interventions	
Blinding	11	(a) If done, who was blinded after assignment to interventions (for example,	
		participants, care providers, those assessing outcomes) and how	
		(b) If relevant, description of the similarity of interventions	
Statistical methods	12	(a) Statistical methods used to compare groups for primary and secondary outcomes	
		(b) Methods for additional analyses, such as subgroup analyses and adjusted analyses	
RESULTS			
Participants	13*	(a) Report numbers of individuals at each stage of study—e.g., numbers	5
		potentially eligible, examined for eligibility, confirmed eligible, included in	
		the study, completing follow-up, and analyzed	
		(b) Give reasons for non-participation at each stage	Figure 1
		(c) Consider use of a flow diagram	Figure 1
Descriptive data	14*	(a) Give characteristics of study participants (e.g., demographic, clinical,	5
		social) and information on exposures and potential confounders	



		(b) Indicate number of participants with missing data for each variable of interest	5
		(c) Cohort study—Summarize follow-up time (e.g., average and total amount)	Not applicable
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time Case-control study—Report numbers in each exposure category, or summary measures of exposure Cross-sectional study—Report numbers of outcome events or summary	5
		measures	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (e.g., 95% confidence interval). Make clear which confounders were adjusted for and why they were included	5, Table2
		(b) Report category boundaries when continuous variables were categorized	5
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	Not applicable
Other analyses	17	(d) Report other analyses done—e.g., analyses of subgroups and interactions, and sensitivity analyses	5, Table2
DISCUSSION			
Key results	18	Summarize key results with reference to study objectives	5, 6
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	6



Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	6
Generalizability OTHER INFORMATION	21	Discuss the generalizability (external validity) of the study results	6
Funding	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based		7

^{*}Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.



Table 2s. Ability of AI and endoscopists to detect gastric cancer as a crossover method among a further 250 patients

Outcome	AI diagnosis, 51 natients with	Expert endoscopist diagnosis, 49	Risk Difference	
	Ai diagnosis, 31 patients with	Expert chaoscopist diagnosis, 47	(95% confidence interval)	
	gastric cancer with 786 images	patients with gastric cancer with 748		
		images		
Main outcome				
Per-patient rate of	51/51 (100)	47/49 (95.92)	4.08 (-1.46 to 9.62)	
gastric cancer				
diagnosis				
Other outcomes				P-value
Per-patient rate of	25/25 (100)	22/22 (100)	Not applicable	Not applicable
invasive gastric				
cancer diagnosis				
Per-patient rate of	26/26 (100)	25/27 (92.59)	7.41 (-2.47 to 17.29)	0.491
early gastric cancer				
diagnosis				
Per-image rate of	786/786 (100)	618/748 (82.62)	17.38(14.66 to 20.10)	< 0.001
gastric cancer				
diagnosis				
IOU of gastric	0.845 ± 0.256	0.948 ± 0.133	-0.10 (-0.12 to -0.08)	< 0.001
cancer \S , mean \pm SD				