	Arithmetic mean	SD		Distrib		
	Anthmetic mean	30	1	2	3	4
Dread [1-4]	3.03	0.76	3%	18%	52%	27%
Unknown [1-4]	2.66	0.78	7%	32%	49%	12%
Delayed effects [1-4]	2.67	0.81	7%	33%	45%	15%
Genetic effects [1-4]	2.69	0.85	8%	33%	42%	18%

Table S1. Arithmetic mean, standard deviation (SD) and distributions of radiation risk perceptions.

 Table S2. Distributions of risk acceptance.

	Distributions
Never mind	19%
Acceptable	16%
Can't help but accept	17%
Unacceptable	16%
Can't judge	31%

Table S3. Distributions of evaluation for each radiological countermeasure.

	Very useful	Useful	Neither	Not useful	Not useful at all	Don't know
WBC	10%	44%	25%	10%	5%	6%
Food inspection	21%	47%	18%	7%	4%	3%
Air dose monitoring	16%	46%	20%	9%	6%	4%
Individual dose monitoring	7%	34%	33%	12%	7%	6%
Basic survey	7%	31%	34%	13%	10%	6%
Thyroid examination	12%	41%	29%	8%	6%	5%
Thyroid examination ^a	17%	47%	23%	8%	4%	2%
Explanatory meeting	6%	33%	36%	10%	8%	7%

WBC: whole body counter.

a: Respondents or their family members are subjects of examination.

Table S4. Basic characteristics of respondents.

		N (%)
Age	20s	137 (13%)
	30s	260 (25%)
	40s	291 (28%)
	50s	203 (20%)
	60s	132 (13%)
Gender	Men	488 (48%)
	Women	535 (52%)
Employment status	Company employees etc. ^a	499 (49%)
	Self-employed	78 (8%)
	Other ^b	446 (44%)
Location	Hamadori	228 (22%)
	Nakadori	663 (65%)
	Aizu	132 (13%)
Evacuation	Presence of evacuation experience	210 (21%)
	Absence of evacuation experience	813 (79%)
Spouse	Presence of spouse	664 (65%)
	Absence of spouse	359 (35%)
Children	Presence of children	619 (61%)
	Absence of children	404 (39%)
Grandchildren	Presence of grandchildren	92 (9%)
	Absence of grandchildren	931 (91%)
Educational background	Junior or high-school graduates	473 (46%)
	University graduates etc.	550 (54%)
Educational course		308 (30%)
	Science course ^c	
	Neither	240 (23%)
	Humanities course ^d	475 (46%)
Jobless person within the	Presence of a jobless person	122 (12%)
nousehold	Absence of a jobless person	841 (82%)
	Do not want to answer	60 (6%)
Household annual income	<3 million JPY	275 (27%)
	3 to <6 million JPY	314 (31%)
	≥6 million JPY	242 (24%)
	Do not want to answer	192 (19%)
Social activities	Paritipated	188 (18%)
	Not participated	835 (82%)
Trust of information	National newspapers, TVs, and radios	302 (30%)
	Local newspapers, TVs, and radios	380 (37%)
	Magazines	49 (5%)
	Central government	163 (16%)
	International organization	172 (17%)
	Local municipality	218 (21%)
	Explanatory meetings of central government and prefecture	90 (9%)
	Direct information from medical professionals	197 (19%)
	Direct information from experts	180 (18%)
	Books written by experts	94 (9%)
	Direct information from family and friends in Fukushima	64 (6%)
	prefecture Direct information from family and friends outside Fukushima prefecture	24 (2%)
	On-line information from experts	149 (15%)
		· · ·
	On-line information from other	58 (6%)
	Do not trust either above	309 (30%)
Advisors or counselors	Presence of advisors or counselors	676 (66%)
	Absence of advisors or counselors	347 (34%)
Life events within a year	Presence of life events	635 (62%)
	Absence of life events	388 (38%)

a: full-time non-management; management; company executives and managers; dispatch and contract employees; civil servants and non-profit organization employees; teachers and lecturers; health professionals; and other professionals.

b: part-time, casual, and sideline workers; home duties; students; jobless, retired, etc.

c: "Science course" and "science course chosen from between science course and humanities course".d: "Humanities course" and "humanities course chosen from between science course and humanities course".

Table S5. Distributions of each outcome.

						Score					
	0	1	2	3	4	5	6	7	8	9	10
SWL	3%	1%	4%	8%	5%	18%	14%	21%	18%	4%	3%
Enjoyment	46%	54%	-	-	-	-	-	-	-	-	-
Happiness	44%	56%	-	-	-	-	-	-	-	-	-
Laughter	19%	81%	-	-	-	-	-	-	-	-	-
Stress	26%	74%	-	-	-	-	-	-	-	-	-
Sadness	70%	30%	-	-	-	-	-	-	-	-	-
Worry	41%	59%	-	-	-	-	-	-	-	-	-
SH	-	2%	18%	50%	24%	6%	-	-	-	-	-
Improvement of SH	-	6%	26%	60%	7%	2%	-	-	-	-	-
Radiation anxiety	-	14%	40%	35%	12%	-	-	-	-	-	-
Reduction of radiation anxiety	-	7%	17%	40%	28%	8%	-	-	-	-	-
Acceptance of radiation risk	48%	52%	-	-	-	-	-	-	-	-	-

SWL: satisfaction with life; SH: self-rated health.

	Enjoyment	Happiness	Laughter	Stress	Sadness	Worry	SH	Improvements in SH	Radiation anxiety	Reduction in radiation anxiety	Acceptance of radiation risk
SWL	0.37 ***	0.43 ***	0.26	-0.14 ***	-0.14 ***	-0.23 ***	0.44 ***	0.32	-0.13 ***	0.15	0.15 ***
Enjoyment	-	0.74 ***	0.43	0.00 ns	0.00 ns	-0.05 ns	0.29	0.23	0.01 ns	0.04 ns	0.06 ns
Happiness	-	-	0.37	0.01 ns	-0.04 ns	-0.03 ns	0.31	0.22	0.02 ns	0.02 ns	0.04 ns
Laughter	-	-	-	0.04 ns	-0.10	-0.03 ns	0.23	0.17	-0.03	0.04 ns	0.07
Stress	-	-	-	-	0.28	0.46	-0.13 ***	-0.15	0.10	-0.01 ns	0.01 ns
Sadness	-	-	-	-	-	0.41	-0.16 ***	-0.11	0.11 ***	-0.03	-0.01 ns
Worry	-	-	-	-	-	-	-0.19 ***	-0.20	0.12 ***	-0.03 ns	-0.01 ns
SH	-	-	-	-	-	-	-	0.55	-0.22 ***	0.23	0.16
Improvements in SH	-	-	-	-	-	-	-	-	-0.25 ***	0.21	0.11
Radiation anxiety	-	-	-	-	-	-	-	-	-	-0.39 ***	-0.34 ***
Reduction in radiation anxiety	-	-	-	-	-	-	-	-	-	-	0.21

 Table S6. Spearman's correlation matrix among outcomes.

SWL: satisfaction with life; SH: self-rated health. ns: not significant; *: P < 0.05; **: P < 0.01; ***: P < 0.01; ***

0.001.

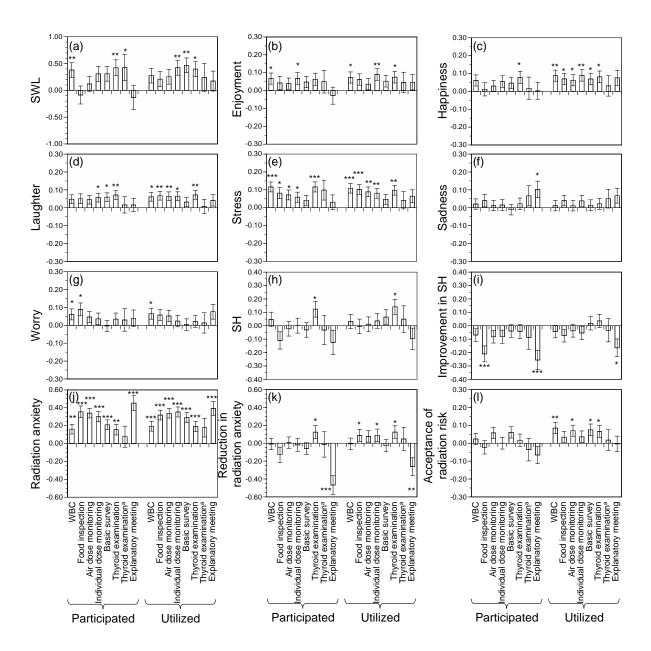


Figure S1. Differences in outcomes according to participation in/utilization of radiological measures before propensity score matching. The values represent differences in outcomes between "participated" and "did not participate" or between "utilized" and "did not utilize." The Mann-Whitney U test was used to test differences in outcomes according to participation in/utilization of radiological countermeasures. (a) SWL; (b) Enjoyment; (c) Happiness; (d) Laughter; (e) Stress; (f) Sadness; (g) Worry; (h) SH; (i) Improvement in SH; (j) Radiation anxiety; (k) Reduction in radiation anxiety; (l) Acceptance of radiation risk. Participated: respondents and/or their family participated. WBC: whole body counter; SWL: satisfaction with life; SH: self-rated health. Error bar represents standard error.*: P < 0.05; **: P < 0.01; ***: P < 0.001. ^a: Respondents or their family members are subjects of examination..