ATTACHMENT A-18

ESTIMATES OF EFFECTIVE DOSE AND ABSORBED DOSE TO THE THYROID OF EVACUEES IN JAPAN FOR THE FIRST YEAR AFTER THE ACCIDENT AT THE FUKUSHIMA DAIICHI NUCLEAR POWER STATION

UNSCEAR 2020/2021 Report, Annex B, Levels and effects of radiation exposure due to the accident at the Fukushima Daiichi Nuclear Power Station: implications of information published since the UNSCEAR 2013 Report

Contents

This attachment details the summary tables for estimates of settlement-average effective doses, absorbed dose to the thyroid and to the red bone marrow of evacuated residents for the first year after the Fukushima Daiichi Nuclear Power Station accident. These summaries are provided for each age group (adults, 10-year-old children and 1-year-old infants) for 40 evacuation scenarios.

The “evacuation dose” is the dose received during the evacuation; the “destination dose” is the dose received for the remainder of the first year at the location to which the population was evacuated; the “total dose” is the sum of the “evacuation dose” and the “destination dose”. The “projected dose” is the dose for the first year for the locality if it had not been evacuated, and the “averted dose” is the dose saved by evacuation (i.e., the difference between the “projected dose” and the “total dose” received).

Notes

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Table A-18.1. Estimated effective doses to adults in the first year after the accident who were evacuated from locations in Fukushima Prefecture, including doses received before and during the evacuation and at the evacuation destination

Location	*Evacuation scenario*	*Destination*	*Estimated effective doses to evacuated adults in the first year after the accident (mSv)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Futaba	01(FT1)	Saitama City	0.27	0.084	0.35	0.093	1.1	43	43
Futaba	02(FT2)	Ibaraki Prefecture	0.50	0.29	0.79	0.25	2.0	43	43
Futaba	03(FT3)	Ibaraki Prefecture	0.29	0.29	0.58	0.22	1.4	43	43
Futaba	04(FT4)	Koriyama City	0.55	1.9	2.5	1.3	4.3	43	41
Futaba	05(FT5)	Tochigi Prefecture	0.078	0.53	0.61	0.33	1.0	43	43
Kawauchi	06(TM1)	Niigata City	0.041	0.005	0.046	0.027	0.072	2	2
Tomioka	07(TM2)	Chiba City	0.24	0.25	0.50	0.21	1.1	18	17
Tomioka	08(TM3)	Chiba City	0.13	0.25	0.38	0.20	0.67	18	17
Tomioka	09(TM4)	Iwaki City	0.39	0.39	0.77	0.31	1.8	18	17
Naraha	10(NR1)	Nasushiobara City	0.14	0.64	0.78	0.42	1.3	3	2
Naraha	11(NR2)	Chiba City	0.21	0.25	0.47	0.21	0.97	3	2
Naraha	12(NR3)	Iwaki City	0.39	0.39	0.77	0.30	1.8	3	2
Naraha	13(NR4)	Tochigi Prefecture	0.069	0.53	0.60	0.32	1.0	3	2
Naraha	14(NR5)	Iwaki City	0.27	0.39	0.66	0.29	1.4	3	2
Okuma	15(OK1)	Aizuwakamatsu City	0.32	0.33	0.65	0.25	1.5	37	37
Okuma	16(OK2)	Tamura City	0.34	0.46	0.80	0.34	1.7	37	37
Futaba	17(OK3)	Shinjuku Ward	0.23	0.10	0.33	0.11	0.86	43	43
Tamura	18(OK4)	Tamura City	0.71	0.46	1.2	0.37	3.2	1	-
Odaka	19(OK5)	Nasushiobara City	0.30	0.64	0.94	0.46	1.7	2	1
Namie	20(NM1)	Shinjuku Ward	0.15	0.10	0.25	0.10	0.57	16	16
Namie	21(NM2)	Soma City	0.44	0.69	1.1	0.50	2.3	16	15

Location	*Evacuation scenario*	*Destination*	*Estimated effective doses to evacuated adults in the first year after the accident (mSv)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Namie	22(NM3)	Koriyama City	0.34	1.9	2.3	1.2	3.8	16	14
Tsushima	23(NM4)	Nihonmatsu City	0.85	2.3	3.1	1.6	5.7	16	13
Namie	24(NM5)	Yonezawa City	0.31	0.058	0.37	0.068	1.3	16	16
Iitate	25(IT1)	Koriyama City	0.64	1.9	2.6	1.3	4.5	12	10
Iitate	26(IT2)	Aizu district	0.083	0.33	0.41	0.22	0.68	12	12
Iitate	27(IT3)	Saitama City	0.28	0.084	0.36	0.12	0.99	12	12
Iitate	28(IT4)	Iitate Village	3.6	1.9	5.5	3.0	9.1	12	7
Odaka	29(OD1)	Shinjuku Ward	1.0	0.10	1.1	0.18	3.9	2	1
Odaka	30(OD2)	Tsuruoka City	0.027	0.078	0.11	0.056	0.18	2	2
Haramachi	31(OD3)	Yokohama City	0.17	0.054	0.22	0.074	0.58	2	2
Odaka	32(OD4)	Shinjuku Ward	0.61	0.10	0.72	0.15	2.3	2	1
Odaka	33(OD5)	Saitama City	0.43	0.084	0.52	0.12	1.6	2	2
Haramachi	34(HK1)	Yokohama City	0.26	0.054	0.31	0.085	0.91	2	2
Iitate	35(HK2)	Yamagata City	0.13	0.078	0.21	0.10	0.44	12	12
Kashima	36(HK3)	Yokohama City	0.54	0.52	1.1	0.42	2.4	2	1
Haramachi	37(HK4)	Soma City	0.55	0.69	1.2	0.52	2.7	2	1
Hirono Town	10 (old)	Ono Town Office	0.46	0.30	0.75	0.23	2.1	2	1
Katsurao Village	12 (old)	Azuma Gymnasium	0.17	2.7	2.9	1.6	4.8	7	5
Katsurao Village Office	14 (old)	Azuma Gymnasium	1.2	2.7	3.9	1.8	7.4	7	4

Table A-18.2. Estimated effective doses to 10-year-old children in the first year after the accident who were evacuated from locations in Fukushima Prefecture, including doses received before and during the evacuation and at the evacuation destination

Location	*Evacuation scenario*	*Destination*	*Estimated effective doses to evacuated 10-year-old children in the first year after the accident (mSv)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Futaba	01(FT1)	Saitama City	0.35	0.095	0.44	0.13	1.2	55	55
Futaba	02(FT2)	Ibaraki Prefecture	0.63	0.34	1.0	0.32	2.4	55	54
Futaba	03(FT3)	Ibaraki Prefecture	0.44	0.34	0.79	0.29	1.9	55	54
Futaba	04(FT4)	Koriyama City	0.73	2.3	3.0	1.5	5.2	55	52
Futaba	05(FT5)	Tochigi Prefecture	0.13	0.62	0.75	0.41	1.2	55	54
Kawauchi	06(TM1)	Niigata City	0.095	0.006	0.10	0.060	0.15	2	2
Tomioka	07(TM2)	Chiba City	0.34	0.30	0.64	0.29	1.3	22	21
Tomioka	08(TM3)	Chiba City	0.20	0.30	0.51	0.27	0.87	22	21
Tomioka	09(TM4)	Iwaki City	0.54	0.46	1.0	0.40	2.3	22	21
Naraha	10(NR1)	Nasushiobara City	0.21	0.75	1.0	0.52	1.6	3	2
Naraha	11(NR2)	Chiba City	0.31	0.30	0.62	0.28	1.3	3	3
Naraha	12(NR3)	Iwaki City	0.53	0.46	1.0	0.39	2.3	3	2
Naraha	13(NR4)	Tochigi Prefecture	0.12	0.62	0.74	0.40	1.2	3	3
Naraha	14(NR5)	Iwaki City	0.37	0.46	0.83	0.37	1.7	3	2
Okuma	15(OK1)	Aizuwakamatsu City	0.41	0.39	0.80	0.33	1.8	47	46
Okuma	16(OK2)	Tamura City	0.45	0.55	1.0	0.43	2.1	47	46
Futaba	17(OK3)	Shinjuku Ward	0.32	0.12	0.44	0.16	1.1	55	55
Tamura	18(OK4)	Tamura City	0.83	0.55	1.4	0.47	3.6	1	-
Odaka	19(OK5)	Nasushiobara City	0.43	0.75	1.2	0.58	2.2	3	2
Namie	20(NM1)	Shinjuku Ward	0.24	0.12	0.36	0.15	0.82	20	20
Namie	21(NM2)	Soma City	0.63	0.81	1.4	0.62	3.1	20	19

Location	*Evacuation scenario*	*Destination*	*Estimated effective doses to evacuated 10-year-old children in the first year after the accident (mSv)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Namie	22(NM3)	Koriyama City	0.41	2.3	2.7	1.4	4.5	20	18
Tsushima	23(NM4)	Nihonmatsu City	1.0	2.7	3.7	1.9	6.7	20	17
Namie	24(NM5)	Yonezawa City	0.50	0.073	0.57	0.11	1.9	20	20
Iitate	25(IT1)	Koriyama City	0.79	2.3	3.1	1.6	5.3	15	12
Iitate	26(IT2)	Aizu district	0.15	0.39	0.54	0.30	0.89	15	14
Iitate	27(IT3)	Saitama City	0.41	0.095	0.51	0.18	1.3	15	14
Iitate	28(IT4)	Iitate Village	4.3	2.2	6.5	3.5	11	15	8
Odaka	29(OD1)	Shinjuku Ward	1.3	0.12	1.5	0.25	4.9	3	1
Odaka	30(OD2)	Tsuruoka City	0.057	0.083	0.14	0.077	0.23	3	3
Haramachi	31(OD3)	Yokohama City	0.24	0.065	0.30	0.12	0.70	3	3
Odaka	32(OD4)	Shinjuku Ward	0.83	0.12	1.0	0.22	3.0	3	2
Odaka	33(OD5)	Saitama City	0.63	0.095	0.73	0.18	2.2	3	2
Haramachi	34(HK1)	Yokohama City	0.37	0.065	0.44	0.14	1.2	3	2
Iitate	35(HK2)	Yamagata City	0.22	0.10	0.32	0.16	0.60	15	14
Kashima	36(HK3)	Yokohama City	0.73	0.61	1.3	0.54	3.0	2	1
Haramachi	37(HK4)	Soma City	0.78	0.81	1.6	0.66	3.5	3	1
Hirono Town	10 (old)	Ono Town Office	0.55	0.36	0.91	0.30	2.4	2	2
Katsurao Village	12 (old)	Azuma Gymnasium	0.22	3.2	3.4	1.8	5.7	9	5
Katsurao Village Office	14 (old)	Azuma Gymnasium	1.4	3.2	4.6	2.2	8.7	9	4

Table A-18.3. Estimated effective doses to 1-year-old infants in the first year after the accident who were evacuated from locations in Fukushima Prefecture, including doses received before and during the evacuation and at the evacuation destination

Location	*Evacuation scenario*	*Destination*	*Estimated effective doses to evacuated 1-year-old infants in the first year after the accident (mSv)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Futaba	01(FT1)	Saitama City	0.42	0.11	0.54	0.17	1.5	64	64
Futaba	02(FT2)	Ibaraki Prefecture	0.76	0.39	1.2	0.38	2.9	64	63
Futaba	03(FT3)	Ibaraki Prefecture	0.54	0.39	0.93	0.35	2.2	64	63
Futaba	04(FT4)	Koriyama City	1.0	2.7	3.6	1.8	6.4	64	60
Futaba	05(FT5)	Tochigi Prefecture	0.17	0.73	0.91	0.50	1.5	64	63
Kawauchi	06(TM1)	Niigata City	0.14	0.005	0.15	0.079	0.24	2	2
Tomioka	07(TM2)	Chiba City	0.42	0.35	0.78	0.35	1.6	25	24
Tomioka	08(TM3)	Chiba City	0.27	0.35	0.62	0.32	1.1	25	25
Tomioka	09(TM4)	Iwaki City	0.65	0.54	1.2	0.49	2.7	25	24
Naraha	10(NR1)	Nasushiobara City	0.26	0.89	1.2	0.62	1.9	4	3
Naraha	11(NR2)	Chiba City	0.38	0.35	0.74	0.33	1.5	4	3
Naraha	12(NR3)	Iwaki City	0.63	0.54	1.2	0.47	2.7	4	3
Naraha	13(NR4)	Tochigi Prefecture	0.16	0.73	0.89	0.48	1.5	4	3
Naraha	14(NR5)	Iwaki City	0.46	0.54	1.0	0.45	2.0	4	3
Okuma	15(OK1)	Aizuwakamatsu City	0.51	0.46	1.0	0.40	2.2	54	53
Okuma	16(OK2)	Tamura City	0.58	0.64	1.2	0.52	2.6	54	53
Futaba	17(OK3)	Shinjuku Ward	0.38	0.14	0.53	0.20	1.3	64	64
Tamura	18(OK4)	Tamura City	1.0	0.64	1.6	0.56	4.3	1	-
Odaka	19(OK5)	Nasushiobara City	0.55	0.89	1.4	0.70	2.7	3	2
Namie	20(NM1)	Shinjuku Ward	0.29	0.14	0.43	0.18	0.96	24	23
Namie	21(NM2)	Soma City	0.75	0.95	1.7	0.74	3.6	24	22

Location	*Evacuation scenario*	*Destination*	*Estimated effective doses to evacuated 1-year-old infants in the first year after the accident (mSv)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Namie	22(NM3)	Koriyama City	0.52	2.7	3.2	1.7	5.3	24	21
Tsushima	23(NM4)	Nihonmatsu City	1.2	3.2	4.4	2.2	7.8	24	19
Namie	24(NM5)	Yonezawa City	0.60	0.085	0.68	0.14	2.2	24	23
Iitate	25(IT1)	Koriyama City	1.0	2.7	3.6	1.9	6.3	17	14
Iitate	26(IT2)	Aizu district	0.23	0.46	0.69	0.37	1.2	17	17
Iitate	27(IT3)	Saitama City	0.52	0.11	0.64	0.23	1.5	17	17
Iitate	28(IT4)	Iitate Village	5.2	2.6	7.8	4.2	13	17	9
Odaka	29(OD1)	Shinjuku Ward	1.7	0.14	1.9	0.32	6.1	3	1
Odaka	30(OD2)	Tsuruoka City	0.079	0.095	0.17	0.095	0.28	3	3
Haramachi	31(OD3)	Yokohama City	0.31	0.074	0.38	0.15	0.86	3	3
Odaka	32(OD4)	Shinjuku Ward	1.1	0.14	1.2	0.28	3.8	3	2
Odaka	33(OD5)	Saitama City	0.80	0.11	0.92	0.24	2.7	3	2
Haramachi	34(HK1)	Yokohama City	0.47	0.074	0.54	0.18	1.4	3	3
Iitate	35(HK2)	Yamagata City	0.30	0.11	0.42	0.20	0.77	17	17
Kashima	36(HK3)	Yokohama City	0.87	0.72	1.6	0.65	3.5	2	1
Haramachi	37(HK4)	Soma City	1.0	0.95	2.0	0.80	4.4	3	1
Hirono Town	10 (old)	Ono Town Office	0.67	0.41	1.1	0.35	2.9	3	2
Katsurao Village	12 (old)	Azuma Gymnasium	0.26	3.8	4.0	2.2	6.7	10	6
Katsurao Village Office	14 (old)	Azuma Gymnasium	1.6	3.8	5.4	2.5	10	10	5

Table A-18.4. Estimated absorbed doses to the thyroid of adults in the first year after the accident who were evacuated from locations in Fukushima Prefecture, including doses received before and during the evacuation and at the evacuation destination

Location	*Evacuation scenario*	*Destination*	*Estimated absorbed doses to the thyroid of evacuated adults in the first year after the accident (mGy)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Futaba	01(FT1)	Saitama City	1.5	0.11	1.6	0.66	3.8	260	250
Futaba	02(FT2)	Ibaraki Prefecture	7.8	0.39	8.2	1.1	27	260	250
Futaba	03(FT3)	Ibaraki Prefecture	4.5	0.39	4.9	0.89	17	260	250
Futaba	04(FT4)	Koriyama City	4.7	2.4	7.0	2.3	19	260	250
Futaba	05(FT5)	Tochigi Prefecture	0.92	0.64	1.6	0.84	2.6	260	260
Kawauchi	06(TM1)	Niigata City	1.1	0.034	1.1	0.65	1.7	4	3
Tomioka	07(TM2)	Chiba City	2.0	0.29	2.3	1.0	5.0	55	52
Tomioka	08(TM3)	Chiba City	1.7	0.29	2.0	1.0	4.0	55	53
Tomioka	09(TM4)	Iwaki City	4.7	0.78	5.5	1.4	16	55	49
Naraha	10(NR1)	Nasushiobara City	1.3	0.76	2.1	1.1	3.7	7	5
Naraha	11(NR2)	Chiba City	2.7	0.29	2.9	1.0	7.9	7	4
Naraha	12(NR3)	Iwaki City	4.5	0.78	5.3	1.3	16	7	1
Naraha	13(NR4)	Tochigi Prefecture	0.95	0.64	1.6	0.90	2.6	7	5
Naraha	14(NR5)	Iwaki City	2.9	0.78	3.7	1.1	10	7	3
Okuma	15(OK1)	Aizuwakamatsu City	2.6	0.72	3.3	1.1	9.2	170	170
Okuma	16(OK2)	Tamura City	2.4	0.86	3.2	1.2	8.2	170	170
Futaba	17(OK3)	Shinjuku Ward	2.3	0.14	2.4	0.77	6.5	260	250
Tamura	18(OK4)	Tamura City	1.7	0.86	2.5	1.1	5.7	1	-
Odaka	19(OK5)	Nasushiobara City	2.8	0.76	3.6	1.4	8.9	11	7
Namie	20(NM1)	Shinjuku Ward	2.4	0.14	2.5	0.74	7.1	65	63
Namie	21(NM2)	Soma City	5.9	1.1	7.0	1.5	22	65	58

Location	*Evacuation scenario*	*Destination*	*Estimated absorbed doses to the thyroid of evacuated adults in the first year after the accident (mGy)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Namie	22(NM3)	Koriyama City	1.0	2.4	3.3	1.7	5.7	65	62
Tsushima	23(NM4)	Nihonmatsu City	5.2	2.7	7.9	2.6	21	65	57
Namie	24(NM5)	Yonezawa City	5.7	0.16	5.8	0.72	21	65	59
Iitate	25(IT1)	Koriyama City	6.7	2.4	9.1	3.0	25	33	24
Iitate	26(IT2)	Aizu district	1.3	0.72	2.0	1.2	3.2	33	31
Iitate	27(IT3)	Saitama City	3.3	0.11	3.4	1.3	8.6	33	30
Iitate	28(IT4)	Iitate Village	6.1	3.0	9.1	4.5	17	33	24
Odaka	29(OD1)	Shinjuku Ward	15	0.14	15	1.7	54	11	-
Odaka	30(OD2)	Tsuruoka City	0.61	0.17	0.79	0.41	1.3	11	10
Haramachi	31(OD3)	Yokohama City	1.3	0.083	1.4	0.75	2.3	11	10
Odaka	32(OD4)	Shinjuku Ward	11	0.14	12	1.5	40	11	-
Odaka	33(OD5)	Saitama City	6.1	0.11	6.2	1.2	20	11	5
Haramachi	34(HK1)	Yokohama City	2.8	0.083	2.9	1.0	7.6	11	8
Iitate	35(HK2)	Yamagata City	1.7	0.19	1.9	1.1	3.2	33	31
Kashima	36(HK3)	Yokohama City	5.3	0.56	5.9	1.5	17	10	4
Haramachi	37(HK4)	Soma City	6.9	1.2	8.1	1.9	25	11	3
Hirono Town	10 (old)	Ono Town Office	1.5	0.69	2.2	0.87	5.1	5	3
Katsurao Village	12 (old)	Azuma Gymnasium	0.39	3.2	3.6	1.9	6.0	18	14
Katsurao Village Office	14 (old)	Azuma Gymnasium	4.8	3.2	8.0	2.7	21	18	10

Table A-18.5. Estimated absorbed doses to the thyroid of 10-year-old children in the first year after the accident who were evacuated from locations in Fukushima Prefecture, including doses received before and during the evacuation and at the evacuation destination

Location	*Evacuation scenario*	*Destination*	*Estimated absorbed doses to the thyroid of evacuated 10-year-old children in the first year after the accident (mGy)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Futaba	01(FT1)	Saitama City	2.9	0.16	3.0	1.4	6.2	410	410
Futaba	02(FT2)	Ibaraki Prefecture	11	0.57	12	2.1	37	410	400
Futaba	03(FT3)	Ibaraki Prefecture	7.7	0.57	8.2	1.8	27	410	400
Futaba	04(FT4)	Koriyama City	7.4	3.1	11	3.4	28	410	400
Futaba	05(FT5)	Tochigi Prefecture	1.9	0.85	2.8	1.6	4.5	410	410
Kawauchi	06(TM1)	Niigata City	2.4	0.072	2.4	1.4	3.7	6	4
Tomioka	07(TM2)	Chiba City	3.8	0.36	4.2	2.0	8.4	83	78
Tomioka	08(TM3)	Chiba City	3.4	0.36	3.7	1.9	6.8	83	79
Tomioka	09(TM4)	Iwaki City	8.0	1.3	9.4	2.6	27	83	73
Naraha	10(NR1)	Nasushiobara City	2.5	1.0	3.5	1.8	6.2	10	7
Naraha	11(NR2)	Chiba City	4.8	0.36	5.1	1.9	13	10	5
Naraha	12(NR3)	Iwaki City	7.6	1.3	8.9	2.3	27	10	1
Naraha	13(NR4)	Tochigi Prefecture	2.0	0.85	2.8	1.6	4.5	10	7
Naraha	14(NR5)	Iwaki City	4.9	1.3	6.3	2.1	17	10	4
Okuma	15(OK1)	Aizuwakamatsu City	4.0	1.3	5.3	2.0	13	260	260
Okuma	16(OK2)	Tamura City	4.0	1.4	5.4	2.1	13	260	260
Futaba	17(OK3)	Shinjuku Ward	4.1	0.19	4.3	1.6	11	410	410
Tamura	18(OK4)	Tamura City	2.7	1.4	4.1	2.0	8.1	2	-
Odaka	19(OK5)	Nasushiobara City	5.1	1.0	6.1	2.4	15	17	11
Namie	20(NM1)	Shinjuku Ward	4.4	0.19	4.6	1.5	12	100	96
Namie	21(NM2)	Soma City	9.9	1.7	12	2.5	36	100	89

Location	*Evacuation scenario*	*Destination*	*Estimated absorbed doses to the thyroid of evacuated 10-year-old children in the first year after the accident (mGy)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Namie	22(NM3)	Koriyama City	1.7	3.1	4.8	2.6	8.1	100	96
Tsushima	23(NM4)	Nihonmatsu City	7.3	3.6	11	3.6	29	100	90
Namie	24(NM5)	Yonezawa City	10	0.31	10	1.6	36	100	91
Iitate	25(IT1)	Koriyama City	9.4	3.1	13	4.6	32	49	36
Iitate	26(IT2)	Aizu district	2.6	1.3	3.9	2.3	6.1	49	45
Iitate	27(IT3)	Saitama City	6.1	0.16	6.3	2.7	14	49	43
Iitate	28(IT4)	Iitate Village	11	2.2	13	6.3	24	49	36
Odaka	29(OD1)	Shinjuku Ward	21	0.19	22	3.1	75	17	-
Odaka	30(OD2)	Tsuruoka City	1.3	0.31	1.6	0.91	2.7	17	16
Haramachi	31(OD3)	Yokohama City	2.7	0.12	2.8	1.6	4.4	17	15
Odaka	32(OD4)	Shinjuku Ward	16	0.19	16	2.8	54	17	1
Odaka	33(OD5)	Saitama City	11	0.16	11	2.5	33	17	6
Haramachi	34(HK1)	Yokohama City	5.2	0.12	5.3	2.1	13	17	12
Iitate	35(HK2)	Yamagata City	3.6	0.31	3.9	2.2	6.2	49	45
Kashima	36(HK3)	Yokohama City	9.1	0.67	10	2.8	28	16	7
Haramachi	37(HK4)	Soma City	12	1.7	13	3.2	41	17	4
Hirono Town	10 (old)	Ono Town Office	2.4	1.2	3.6	1.6	7.8	8	4
Katsurao Village	12 (old)	Azuma Gymnasium	0.64	4.1	4.7	2.5	7.9	26	21
Katsurao Village Office	14 (old)	Azuma Gymnasium	7.4	4.1	11	3.6	31	26	14

Table A-18.6. Estimated absorbed doses to the thyroid of 1-year-old infants in the first year after the accident who were evacuated from locations in Fukushima Prefecture, including doses received before and during the evacuation and at the evacuation destination

Location	*Evacuation scenario*	*Destination*	*Estimated absorbed doses to the thyroid of evacuated 1-year-old infants in the first year after the accident (mGy)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Futaba	01(FT1)	Saitama City	3.7	0.19	3.9	1.8	7.8	490	490
Futaba	02(FT2)	Ibaraki Prefecture	14	0.68	15	2.8	47	490	490
Futaba	03(FT3)	Ibaraki Prefecture	10	0.68	11	2.3	33	490	480
Futaba	04(FT4)	Koriyama City	12	3.7	15	4.4	43	490	480
Futaba	05(FT5)	Tochigi Prefecture	2.8	1.0	3.8	2.0	6.4	490	490
Kawauchi	06(TM1)	Niigata City	3.5	0.087	3.5	1.9	5.9	7	4
Tomioka	07(TM2)	Chiba City	5.3	0.43	5.7	2.7	11	99	94
Tomioka	08(TM3)	Chiba City	4.7	0.43	5.1	2.6	9.3	99	94
Tomioka	09(TM4)	Iwaki City	10	1.6	12	3.5	33	99	87
Naraha	10(NR1)	Nasushiobara City	3.5	1.2	4.6	2.3	8.2	12	8
Naraha	11(NR2)	Chiba City	6.1	0.43	6.5	2.4	16	12	6
Naraha	12(NR3)	Iwaki City	9.5	1.6	11	3.0	32	12	1
Naraha	13(NR4)	Tochigi Prefecture	2.7	1.0	3.7	2.1	6.1	12	8
Naraha	14(NR5)	Iwaki City	6.3	1.6	7.9	2.7	20	12	4
Okuma	15(OK1)	Aizuwakamatsu City	5.4	1.5	6.9	2.6	17	320	310
Okuma	16(OK2)	Tamura City	5.9	1.7	7.6	2.8	19	320	310
Futaba	17(OK3)	Shinjuku Ward	5.3	0.23	5.5	2.1	13	490	490
Tamura	18(OK4)	Tamura City	3.7	1.7	5.4	2.5	10	3	-
Odaka	19(OK5)	Nasushiobara City	7.4	1.2	8.5	3.1	21	21	12
Namie	20(NM1)	Shinjuku Ward	5.7	0.23	5.9	2.0	15	120	110
Namie	21(NM2)	Soma City	12	2.0	14	3.2	45	120	110

Location	*Evacuation scenario*	*Destination*	*Estimated absorbed doses to the thyroid of evacuated 1-year-old infants in the first year after the accident (mGy)*						
			Evacuation (mSv)	*Destination (mSv)*	*Total dose (mSv)*			*Projected (mSv)*	*Averted (mGy)*
			Mean	*Mean*	*Mean*	*5%ile*	*95%ile*		
Namie	22(NM3)	Koriyama City	2.6	3.7	6.3	3.2	11	120	110
Tsushima	23(NM4)	Nihonmatsu City	9.0	4.2	13	4.5	34	120	110
Namie	24(NM5)	Yonezawa City	12	0.37	13	2.1	44	120	110
Iitate	25(IT1)	Koriyama City	12	3.7	16	5.8	39	57	41
Iitate	26(IT2)	Aizu district	4.2	1.5	5.7	3.0	9.6	57	51
Iitate	27(IT3)	Saitama City	8.3	0.19	8.5	3.5	18	57	48
Iitate	28(IT4)	Iitate Village	14	2.5	16	7.7	30	57	41
Odaka	29(OD1)	Shinjuku Ward	30	0.23	30	4.4	102	21	-
Odaka	30(OD2)	Tsuruoka City	1.8	0.38	2.2	1.2	3.6	21	19
Haramachi	31(OD3)	Yokohama City	3.9	0.15	4.0	2.2	6.6	21	17
Odaka	32(OD4)	Shinjuku Ward	23	0.23	23	4.0	76	21	-
Odaka	33(OD5)	Saitama City	14	0.19	15	3.5	44	21	6
Haramachi	34(HK1)	Yokohama City	7.0	0.15	7.1	2.8	17	21	14
Iitate	35(HK2)	Yamagata City	5.3	0.41	5.7	3.0	9.7	57	51
Kashima	36(HK3)	Yokohama City	12	0.78	12	3.7	34	20	7
Haramachi	37(HK4)	Soma City	16	2.0	18	4.3	56	21	2
Hirono Town	10 (old)	Ono Town Office	3.2	1.5	4.7	2.1	9.8	10	5
Katsurao Village	12 (old)	Azuma Gymnasium	0.77	4.7	5.5	2.9	9.2	30	25
Katsurao Village Office	14 (old)	Azuma Gymnasium	8.8	4.7	14	4.2	36	30	17