

3 結果

3.1 医学文献の収集

実施計画に従い、現在医学文献の収集及び文献サマリの作成を順次実施した。図表 0-1 にその概況を示す。

図表 0-1 医学文献の収集結果

カテゴリー	調査対象 文献	収集済み 文献	備考
①国際的な活動として取り組まれ信頼性の高い文献（基点とする文献）	803	598	国会図書館、JAEA 図書館、放医研図書館、IMIC 図書館、ネットフリーDL のいずれでも収集できなかったものが未収集となった。
②市民組織的立場からの知見	86	18	未入手分は、書誌情報が不正確なもの、入手困難なものであった。
③最近の知見	117	25	委員の先生方の知見を参考に、リスク推定値等の検討に有用な最新の文献を収集した。

① 国際的な活動として取り組まれ信頼性の高い文献（基点とする文献）

厚生労働省から事前提供された文献(507 件)、放射線影響研究所レビューで使用された文献 (610 件)、原子力安全研究協会レビューで使用された文献 (116 件) からその重複を除いたもの (579 件) に、UNSCEAR2006 においてリスク推定に使われた文献 (205 件) を追加して、その重複を除いた。その結果 775 件となり、このうち 570 件を収集した。このリストを図表 0-3 に示す。未収集の文献は、国立国会図書館、日本原子力研究開発機構 (JAEA) 図書館、独立行政法人放射線医学総合研究所図書室、一般財団法人 国際医学情報センター文献複写サービス、インターネットからのフリーダウンロードのいずれでも収集できなかったものである。

② 市民組織的立場からの知見

欧州放射線リスク委員会(European Committee on Radiation Risk, ECRR)の調査結果を参考に、調査対象となりうる文献を選定 (86 件) した。このリストを図表 0-4 に示す。書誌情報が不正確なものや入手困難なものが多く収集は 18 件に留まった。

③ 最新の知見

Pubmed にて、以下の検索式を用いて 2008 年以降の直近 5 年間の関連論文を抽出した結果、461 件の文献がヒットした。

((Search ((radiation) AND epidemiology) AND cancer) AND dose[AllFields])AND exposure[All Fields]) AND ("2008"[PDAT] : "3000"[PDAT])

これら文献の論文タイトル及びアブストラクトから本調査に適切と考えられる文献の絞り込みを行い、117件を選定し、25件を収集した。この結果を図表 0-5 に示す。

なお収集した文献にて扱われていたリスクを推定するための評価モデルは以下のとおりであった。

図表 0-2 リスクを推定するための評価モデル一覧

モデル	概要
ERR モデル	過剰相対リスクモデル (Excess Relative Risk Model) リスクが被ばく量にともない相対的に変動するとするモデル。
EAR モデル	過剰絶対リスクモデル (Excess Attributable Risk Model) リスクが被ばく量にともない絶対的に変動するとするモデル。
SMR	標準化死亡比(Standardized Mortality Ratio) 調査対象集団に外部の標準的な集団の死亡率をあてはめた場合の、観察死亡数と期待死亡数の比。
SIR	標準化罹患比(Standardized Incidence Ratio) 調査対象集団に外部の標準的な集団の罹患率をあてはめた場合の、観察罹患数と期待罹患数の比。

図表 0-3 収集文献リスト（①国際的な活動として取り組まれ信頼性の高い文献（基点とする文献））

収集	ID	著者	タイトル	書誌情報
	1	Abdel-Wahab M,Reis IM,Wu J,Duncan R	Second primary cancer risk of radiation therapy after radical prostatectomy for prostate cancer:an analysis of SEER data	Urology74: 866–871;2009
	2	Abdel Ghany HA	Enhancement of radon exposure in smoking areas	Environ Geochem Health29:249–255;2007
O	3	Acquavella JF,Tietjen GL,Wilkinson GS,Key CR,Voelz GL	Malignant melanoma incidence at the Los Alamos National Laboratory	Lancet1:883–4;1982
O	4	Acquavella JF,Wilkinson GS,Tietjen GL,Key CR,Stebbins JH,Voelz GL	A melanoma case-control study at the Los Alamos National Laboratory	Health Phys45:587–592; 1983
O	5	Adams MJ,Dozier A,Shore RE,Lipshultz SE,Schwartz RG,Constine LS,Pearson TA,Stovall M,Winters P,Fisher SG	Breast cancer risk55+years after irradiation for an enlarged thymus and its implications for early childhood medical irradiation today	Cancer Epidemiol Biomarkers Prev19:48–58;2010
O	6	Agate L,Mariotti S,Elisei R,Mossa P,Pacini F,Molinaro E,Grasso L,Masserini L,Mokhort T,Vorontsova T,Aryncyn A,Tronko MD,Tsyb A,Feldt-Rasmussen U, Juul A,Pinchera A	Thyroid autoantibodies and thyroid function in subjects exposed to Chernobyl fallout during childhood:evidence for a transient radiation-induced elevation of serum thyroid antibodies without an increase in thyroid autoimmune disease	J Clin EndocrinolMetab93:2729–2736;2008
O	7	Akiba S,Tokonami S,Bochicchio F,McLaughlin J,Tomasino L,Harley N	Thoron:its metrology,health effects and implications for radon epidemiology:a summary of roundtable discussions	Radiat Prot Dosimetry 141:477–481;2010
O	8	Akleyev AV,Dimov GP,Varfolomeyeva TA	Late effects in hemopoiesis and bone tissue among people with incorporated osteotropic isotope ⁹⁰ Sr	Health Phys98:819–824; 2010
	9	Alavanja MC,Brownson RC,Lubin JH,Berger E,Chang J,Boice JD, Jr	Residential radon exposure and lung cancer among nonsmoking women	J Natl Cancer Inst86: 1829–1837;1994
O	10	Alavanja MC,Lubin JH,Mahaffey JA,Brownson RC	Residential radon exposure and risk of lung cancer in Missouri	Am J Public Health89:1042–1048;1999
O	11	Alexanin SS,Slozina NM,Neronova EG,Makarova NV	Chromosomal aberrations and sickness rates in Chernobyl clean-up workers in the years following the accident	Health Phys98:258–260;2010
O	12	Almgren S,Barregard L,Isaksson M	Measurements and comparisons of gamma radiation doses in a high and a low(¹³⁷ Cs deposition area in Sweden	J Environ Radioact99: 1750–1755;2008
O	13	Amabile JC,Leuraud K,Vacquier B,Caer-Lorho S,AckerA,Laurier D	Multifactorial study of the risk of lung cancer among French uranium miners:radon,smoking and silicosis	Health Phys97:613–621;2009
O	14	Andersson M,Carstensen B,Visfeldt J	Leukemia and other related hematological disorders among Danish patients exposed to Thorotrast	Radiat Res134:224–233;1993
O	15	Andersson M,Engholm G,Ennow K, Jessen KA,Storm HH	Cancer risk among staff at two radiotherapy departments in Denmark	Br J Radiol64:455–60;1991
	16	Andersson M,Storm HH	Cancer incidence among Danish Thorotrast-exposed patients	J Natl Cancer Inst84:1318–1325;1992
	17	Aoyama T,Futamura A,Kato Hea	Mortality study of Japanese radiological technologists	J. Jpn.Assoc.Radiol.Tech:91–96; 1987

収集	ID	著者	タイトル	書誌情報
	18	Archer VE,Wagoner JK,Lundin FE,Jr	Cancer mortality among uranium mill workers	J OccupMed15:11-14;1973
	19	Armstrong K,Moye E,Williams S,Berlin JA,Reynolds EE	Screening mammography in women40 to49 years of age:a systematic review for the American College of Physicians	Ann Intern Med 146:516-526;2007
	20	Ashmore JP,Gentner NE,Osborne RV	Incomplete data on the Canadian cohort may have affected the results of the study by the International Agency for Research on Cancer on the radiogenic cancer risk among nuclear industry workers in15 countries	J Radiol Prot30:121-129;2010
O	21	Ashmore JP,Krewski D,Zielinski JM, Jiang H,Semenciw R,Band PR	First analysis of mortality and occupational radiation exposure based on the National Dose Registry of Canada	Am J Epidemiol148:564-574;1998
	22	Atkinson WD,Law DV,Bromley KJ	A decline in mortality from prostate cancer in the UK Atomic Energy Authority workforce	J Radiol Prot27:437-445;2007
O	23	Atkinson WD,Law DV,Bromley KJ,Inskip HM	Mortality of employees of the United Kingdom Atomic Energy Authority,1946-97	Occup Environ Med61:577-585; 2004
O	24	Atkinson WD,Marshall M,Wade BO	Prostatic cancer and radionuclides. Cancer risk has no effect on mortality.	Bmj308:268-269;1994
O	25	Austin DF,Reynolds PJ,Snyder MA,Biggs MW,Stubbs HA	Malignant melanoma among employees of Lawrence Livermore National Laboratory	Lancet2:712-716; 1981
O	26	Auvinen A,Makelainen I,Hakama M,Castren O,Pukkala E,Reisbacka H,Rytomaa T	Indoor radon exposure and risk of lung cancer:a nested case-control study in Finland	J Natl Cancer Inst88:966-972;1996
O	27	Baker PJ,Hoel DG	Meta-analysis of standardized incidence and mortality rates of childhood leukaemia in proximity to nuclear facilities	Eur J Cancer Care(Engl)16:355-363; 2007
	28	Ballard TJ,Lagorio S,De Santis M,DeAngelis G,Santaquilani M,Caldora M,Verdecchia A	A retrospective cohort mortality study of Italian commercial airline cockpit crew and cabin attendants,1965-1996	Int J Occup Environ Health8:87-96;2002
	29	Band PR,Spinelli JJ,Ng VT,Moody J,Gallagher RP	Mortality and cancer incidence in a cohort of commercial airline pilots	Aviat Space Environ Med61:299-302; 1990
	30	Barros-Dios JM,Barreiro MA,Ruano-Ravina A,Figueiras A	Exposure to residential radon and lung cancer in Spain:a population-based case-control study	Am J Epidemiol156: 548-555;2002
O	31	Barton CJ,Roman E,Ryder HM,Watson A	Childhood leukaemia in West Berkshire	Lancet 2:1248-9;1985
	32	Baysson H,Tirmarche M,Tymen G,Gouva S,Caillaud D,Artus JC,Vergnenegre A,Ducloy F,Laurier D	Indoor radon and lung cancer in France	Epidemiology15:709-716; 2004
	33	Beehler GP,Baker JA,Falkner K,Chegerova T,Pryshchepava A,Chegerov V,Zevon M,Bromet E,Havenaar J,Valdismarsdottir H,Moysich KB	A multilevel analysis of long-term psychological distress among Belarusians affected by the Chernobyl disaster	Public Health 122:1239-1249;2008
O	34	Belyi D,Kovalenko A,Bazyka D,Bebeshko V	Non-cancer effects in acute radiation syndrome survivors in Ukraine	Health Phys98:876-884;2010
	35	Beral V,Fraser P,Carpenter L,Booth M,Brown A,Rose G	Mortality of employees of the Atomic Weapons Establishment,1951-1982	Bmj297:757-70;1988
	36	Beral V,Inskip H,Fraser P,Booth	Mortality of employees of the United Kingdom Atomic Energy	Br Med J(Clin Res Ed)291:

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		M,Coleman D,Rose G	Authority,1946–1979	440-7;1985
O	37	Berrington de Gonzalez A,Berg CD,Visvanathan K,Robson M	Estimated risk of radiation-induced breast cancer from mammographic screening for young BRCA mutation carriers	J Natl Cancer Inst 101:205–209;2009
O	38	Berrington de Gonzalez A,Curtis RE,Gilbert E,Berg CD,Smith SA,Stovall M,Ron E	Second solid cancers after radiotherapy for breast cancer in SEER cancer registries	Br J Cancer 102:220–226;2010
O	39	Berrington de Gonzalez A,Darby S	Risk of cancer from diagnostic X-rays:estimates for the UK and 14 other countries	Lancet 363:345–351;2004
O	40	Berrington de Gonzalez A,Kim KP,Berg CD	Low-dose lung computed tomography screening before age55:estimates of the mortality reduction required to outweigh the radiation-induced cancer risk	J Med Screen 15:153–158;2008
	41	Berry DA,Cronin KA,Plevritis SK,Fryback DG,Clarke L,Zelen M,Mandelblatt JS,Yakovlev AY,Habbema JD,Feuer EJ	Effect of screening and adjuvant therapy on mortality from breast cancer	N Engl J Med 353:1784–1792;2005
	42	Bertell R,Ehrle LH,Schmitz–Feuerhake I	Pediatric CT research elevates public health concerns:low-dose radiation issues are highly politicized	Int J Health Serv 37:419–439;2007
O	43	Bhatti P,Struewing JP,Alexander BH,Hauptmann M,Bowen L,Mateus-Pereira LH,Pineda MA,Simon SL,Weinstock RM,Rosenstein M,Stovall M,Preston DL,Linet MS,Doody MM,Sigurdson AJ	Polymorphisms in DNA repair genes,ionizing radiation exposure and risk of breast cancer in U.S. Radiologic technologists	Int J Cancer 122:177–182;2008
O	44	Bigsby RM,Valluri S,Lopez J,Mendonca MS,Caperell-Grant A,DesRosiers C,Dynlacht JR	Ovarian hormone modulation of radiation-induced cataractogenesis:dose-response studies	Invest Ophthalmol Vis Sci 50:3304–10;2009
O	45	Bingham D,Harrison JD,Phipps AW	Biokinetics and dosimetry of chromium,cobalt, hydrogen,iron and zinc radionuclides in male reproductive tissues of the rat	Int J Radiat Biol 72:235–248;1997
O	46	Bitell JF,Dutton SJ,Draper GJ,Neary NM	Distribution of childhood leukaemias and non-Hodgkin's lymphomas near nuclear installations in England and Wales	Bmj 309: 501–5;1994
O	47	Bitell JF,Stewart AM	Pre-natal irradiation and childhood malignancy:a review of British data from the Oxford Survey	Br J Cancer 31:271–287;1975
	48	Bitell JF,Stiller CA	A new calculation of the carcinogenic risk of obstetric X-raying	Stat Med 7:857–864;1988
O	49	Bjerkhagen B,Smeland S,Walberg L,Skjeldal S,Hall KS,Nesland JM,Smastuen MC,Fossa SD,Saeter G	Radiation-induced sarcoma:25-year experience from the Norwegian Radium Hospital	Acta Oncol 47:1475–1482;2008
O	50	Black C,de Verteuil R,Walker S,Ayres J,Boland A,Bagust A,Waugh N	Population screening for lung cancer using computed tomography,is there evidence of clinical effectiveness?A systematic review of the literature	Thorax 62:131–138; 2007
O	51	Black RJ,Sharp L,Finlayson AR,Harkness EF	Cancer incidence in a population potentially exposed to radium-226 at Dalgety Bay,Scotland	Br J Cancer 69:140–143; 1994
O	52	Black RJ,Urquhart JD,Kendrick SW,Bunch KJ,Warner J,Jones DA	Incidence of leukaemia and other cancers in birth and schools cohorts in the Dounreay area	Bmj 304:1401–1405;1992
O	53	Blettner M,Zeeb H,Auvinen A,Ballard TJ,Caldora M,Eliasch H,Gundestrup M,Haldorsen T,Hammar	Mortality from cancer and other causes among male airline cockpit crew in Europe	Int J Cancer 106:946–952; 2003

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		N,Hammer GP,Irvine D,Langner I,Paridou A,Pukkala E,Rafnsson V, Storm H,Tulinius H,Tveten U,Tzonou A		
O	54	Bochicchio F,Forastiere F,Farchi S,Quarto M,Axelson O	Residential radon exposure,diet and lung cancer:a case-control study in a Mediterranean region	Int J Cancer 114: 983-991;2005
	55	Boffetta P,Stellman SD,Garfinkel L	A case-control study of multiple myeloma nested in the American Cancer Society prospective study	Int J Cancer 43:554-559;1989
O	56	Boffetta P,van der Hel O,Norppa H,Fabianova E,Fucic A,Gundy S,Lazutka J, Cebulska-Wasilewska A,Puskailerova D,Znaor A,Kelecsenyi Z,Kurtinaitis J, Rachtan J,Forni A,Vermeulen R,Bonassi S	Chromosomal aberrations and cancer risk:results of a cohort study from Central Europe	Am J Epidemiol 165:36-43; 2007
O	57	Bogdanova NV,Antonenkova NN,Rogov YI,Karstens JH,Hillemanns P,Dork T	High frequency and allele-specific differences of BRCA1 founder mutations in breast cancer and ovarian cancer patients from Belarus	Clin Genet 78:364-372;2010
O	58	Boice JD	Uncertainties in studies of low statistical power	J Radiol Prot 30:115-120; 2010
O	59	Boice JD,Cohen SS,Mumma MT,Dupree Ellis E,Eckerman KF,Leggett RW,Boecker BB,Brill AB,Henderson BE	Mortality among radiation workers at Rocketdyne(Atomics International),1948-1999	Radiat Res 166:98-115;2006
	60	Boice JD,Hutchison GB	Leukemia in women following radiotherapy for cervical cancer:ten-year follow-up of an international study	J Natl Cancer Inst 65:115-129; 1980
	61	Boice JD, Jr.,Cohen SS,Mumma MT,Chadda B,Blot WJ	Mortality among residents of Uravan,Colorado who lived near a uranium mill,1936-84	J Radiol Prot 27:299-319; 2007
O	62	Boice JD, Jr.,Day NE,Andersen A,Brinton LA,Brown R,Choi NW,Clarke EA,Coleman MP,Boice JD, Jr.,Engholm G,Kleinerman RA,Blettner M,Stovall M,Lisco H,Moloney WC,Austin DF,Bosch A,Cookfair DL,et al	Radiation dose and second cancer risk in patients treated for cancer of the cervix	Radiat Res 116:3-55;1988
O	63	Boice JD, Jr.,Miller RW	Childhood and adult cancer after intrauterine exposure to ionizing radiation	Teratology 59:227-233;1999
	64	Boice JD, Jr.,Morin MM,Glass AG,Friedman GD,Stovall M,Hooverumeni JF, Jr	Diagnostic x-ray procedures and risk of leukemia,lymphoma,and multiple myeloma	Jama 265:1290-1294;1991
	65	Boice JD, Jr.,Mumma M,Schweitzer S,Blot WJ	Cancer mortality in a Texas county with prior uranium mining and milling activities,1950-2001	J Radiol Prot 23:247-262; 2003
O	66	Boice JD, Jr.,Mumma MT,Blot WJ	Cancer mortality among populations residing in counties near the Hanford site,1950-2000	Health Phys 90:431-45;2006
O	67	Boice JD, Jr.,Mumma MT,Blot WJ	Cancer and noncancer mortality in populations living near uranium and vanadium mining and milling operations in Montrose County,Colorado,1950-2000	Radiat Res 167:711-726;2007
	68	Boice JD, Jr.,Mumma MT,Blot WJ,Heath CW, Jr.	Childhood cancer mortality in relation to the St Lucie nuclear power station	J Radiol Prot 25:229-240;2005
	69	Boice JD, Jr.,Rosenstein M,Trout ED	Estimation of breast doses and breast cancer risk associated with repeated fluoroscopic chest examinations of women with tuberculosis	Radiat Res 73:373-390;1978

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	70	Boivin JF,Hutchison GB,Evans FB,Abou-Daoud KT, Junod B	Leukemia after radiotherapy for first primary cancers of various anatomic sites	Am J Epidemiol123:993–1003;1986
O	71	Boivin JF,Hutchison GB,Lubin JH,Mauch P	Coronary artery disease mortality in patients treated for Hodgkin's disease	Cancer69:1241–1247;1992
	72	Boivin JF,Hutchison GB,Lyden M,Godbold J,Chorosh J,Schottenfeld D	Second primary cancers following treatment of Hodgkin's disease	J Natl Cancer Inst72:233–341;1984
	73	Boivin JF,Hutchison GB,ZauberAG,Bernstein L,Davis FG,Michel RP,Zanke B,Tan CT,Fuller LM,Mauch P,et al	Incidence of second cancers in patients treated for Hodgkin's disease	J Natl Cancer Inst87:732–741;1995
O	74	Bolling T,Willich N	Long-term overall and cardiovascular mortality after childhood cancer:the problem of retrospective estimated radiation doses	J Clin Oncol28:e436;author reply e437–438;2010
O	75	Bonassi S,Norppa H,Ceppi M,Stromberg U,Vermeulen R,Znaor A,Cebulska–Wasilewska A,Fabianova E,Fucic A,Gundy S,Hansteen IL,Knudsen LE,Lazutka J,Rossner P, Sram RJ,Boffetta P	Chromosomal aberration frequency in lymphocytes predicts the risk of cancer:results from a pooled cohort study of 22 358 subjects in 11 countries	Carcinogenesis29:1178–1183;2008
O	76	Bonassi S,Znaor A,Ceppi M,Lando C,Chang WP,Holland N,Kirsch–Volders M,Zeiger E, Ban S,Barale R,Bigatti MP,Bolognesi C,Cebulska–Wasilewska A,Fabianova E, Fucic A,Hagmar L,Joksic G,Martelli A,Migliore L,Mirkova E,Scarfi MR,Zijno A, Norppa H,Fenech M	An increased micronucleus frequency in peripheral blood lymphocytes predicts the risk of cancer in humans	Carcinogenesis28:625–631;2007
O	77	Brenner D,Elliston C,Hall E,Berdon W	Estimated risks of radiation-induced fatal cancer from pediatric CT	AJR Am J Roentgenol176:289–296;2001
	78	Bridges BA	COMARE10th Report "The incidence of childhood cancer around nuclear installations in Great Britain	COMARE10th Report;2005
O	79	Brill AB,Stabin M,Bouville A,Ron E	Normal organ radiation dosimetry and associated uncertainties in nuclear medicine,with emphasis on iodine-131	Radiat Res166: 128–140;2006
O	80	Brooks AL,Eberlein PE,Couch LA,Boecker BB	The role of dose-rate on risk from internally-deposited radionuclides and the potential need to separate dose-rate effectiveness factor(DREF)from the dose and dose-rate effectiveness factor(DDREF)	Health Phys97:458–469;2009
	81	Brown LM,Chen BE,Pfeiffer RM,Schairer C,Hall P,Storm H,Pukkala E,Langmark F, Kaijser M,Andersson M, Joensuu H,Fossa SD,Travis LB	Risk of second non-hematological malignancies among 376,825 breast cancer survivors	Breast Cancer Res Treat 106:439–451;2007
O	82	Brown LM,Pottern LM,Hoover RN	Prenatal and perinatal risk factors for testicular cancer	Cancer Res46:4812–4816;1986
O	83	Bunch KJ,Muirhead CR,Draper GJ,Hunter N,Kendall GM,O'Hagan JA,Phillipson MA, Vincent TJ,Zhang W	Cancer in the offspring of female radiation workers:a record linkage study	Br J Cancer 100:213–218;2009
O	84	Burma S,Chen BP,Murphy	ATM phosphorylates histone H2AX in response to DNA double-strand	J Biol

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	85	Busby C	Is there a sea coast effect on childhood leukaemia in Dumfries and Galloway,Scotland,1975–2002	Occup Environ Med65:286;author reply286–287;2008
	86	Cadwell KK,Whitehouse CA,Tarone RE, Janet Tawn E	Comparison of in vivo translocation frequencies with in vitro G2 radiosensitivity in radiation workers occupationally exposed to external radiation	J Radiol Prot28:101–116;2008
O	87	Cardis E,Gilbert ES,Carpenter L,Howe G,Kato I, Armstrong BK,Beral V,Cowper G, Douglas A,Fix J,et al	Effects of low doses and low dose rates of external ionizing radiation:cancer mortality among nuclear industry workers in three countries	Radiat Res142:117–132;1995
O	88	Cardis E,Vrijheid M,Blettner M,Gilbert E,Hakama M,Hill C,Howe G,Kaldor J,Muirhead CR,Schubauer-Berigan M,Yoshimura T,Bermann F,Cowper G,Fix J,Hacker C,Heinmiller B,Marshall M,Thierry-Chef I,Utterback D,Ahn YO,Amoros E,Ashmore P,Auvinen A,Bae JM,Bernar J,Biau A,Combalot E,Deboodt P,Diez Sacristan A, Eklof M,Engels H,Engholm G,Gulis G,Habib RR,Holan K,Hyvonen H,Kerekes A,Kurtinaitis J,Malker H,Martuzzi M,Mastauskas A,Monnet A,Moser M,Pearce MS, Richardson DB,Rodriguez-Artalejo F,Rogel A,Tardy H,Telle-Lamberton M,Turai I, Usel M,Veress K	The 15-Country Collaborative Study of Cancer Risk among Radiation Workers in the Nuclear Industry:estimates of radiation-related cancer risks	Radiat Res167:396–416;2007
O	89	Carpenter L,Higgins C,Douglas A,Fraser P,Beral V,Smith P	Combined analysis of mortality in three United Kingdom nuclear industry workforces,1946–1988	Radiat Res138:224–238;1994
O	90	Carr ZA,Kleinerman RA,Stovall M,Weinstock RM,Griem ML,Land CE	Malignant neoplasms after radiation therapy for peptic ulcer	Radiat Res157:668–677; 2002
O	91	Carr ZA,Land CE,Kleinerman RA,Weinstock RW,Stovall M,Griem ML,Mabuchi K	Coronary heart disease after radiotherapy for peptic ulcer disease	Int J Radiat Oncol Biol Phys61:842–850;2005
O	92	Cartwright RA,Dovey GJ,Kane EV,Gilman EA	The onset of the excess of childhood cancer in Seascale,Cumbria	J Public Health Med23:314–322;2001
	93	Charles MW	Radon exposure of the skin:I. Biological effects	J Radiol Prot27:231–252; 2007
	94	Charles MW	Radon exposure of the skin:II. Estimation of the attributable risk for skin cancer incidence	J Radiol Prot27:253–274;2007
O	95	Chaturvedi AK,Engels EA,Gilbert ES,Chen BE,Storm H,Lynch CF,Hall P,Langmark F, Pukkala E,Kaijser M,Andersson M,Fossa SD, Joensuu H,Boice JD,Kleinerman RA, Travis LB	Second cancers among 104,760 survivors of cervical cancer:evaluation of long-term risk	J Natl Cancer Inst99:1634–1643;2007

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図表 0-4 収集文献リスト（②市民組織的立場からの知見）

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O	116	Sarah C. Darby, Ph.D., Marianne Ewertz, D.M.Sc., Paul McGale, Ph.D., Anna M. Bennet, Ph.D., Ulla Blom-Goldman, M.D., Dorthe Brønnum, R.N., Candace Correa, M.D., David Cutter, F.R.C.R., Giovanna Gagliardi, Ph.D., Bruna Gigante, Ph.D.,	Risk of Ischemic Heart Disease in Women after Radiotherapy for Breast Cancer.	N Engl J Med 2013; 368:987–998
O	117	Gilbert ES, Sokolnikov ME, Preston DL, Schonfeld SJ, Schadilov AE, Vasilenko EK, Koshurnikova NA.	Lung cancer risk from Plutonium An updated analysis of data from the Mayak worker cohort	Radiation Research: March 2013, Vol. 179, No. 3, pp. 332–342.

1.1 レビューサマリ作成

(1) レビューシートの作成

医学文献「①国際的な活動として取り組まれ信頼性の高い文献（基点とする文献）」のうち、レビュー使用可能性の高いものについては「文献レビューシート」を作成した。

レビュー使用可能性の判定は暫定的に以下の基準で行っており、Sランクのものについて「レビューシート」を適用した。

図表 0-6 レビュー使用可能性の判定基準と結果

ランク	判定基準	件数
S	UNSCEAR にてリスク推定の根拠として利用、かつ、人年あり	99*
A	UNSCEAR にてリスク推定の根拠として利用、かつ、人年なし	21
B	UNSCEAR にて疫学論文としてピックアップ、かつ、人年あり	88
C	UNSCEAR にて疫学論文としてピックアップ、かつ、人年あり	60
D	UNSCEAR にて疫学論文としてピックアップなし	507

*入手できたのは 89 件

なお、循環器系疾患と白内障については、ICRP Publication 118 「ICRP Statement on Tissue Reactions / Early and Late Effects of Radiation in Normal Tissues and Organs Threshold Doses for Tissue Reactions in a Radiation Protection Context」で採用されている文献に基づいて「レビューシート」を適用した。

(2) 対応表の作成

(1) で作成したレビューシートにおいては、1つの文献で複数のがんに対する解析を行なっていることが多い。そこで、がんの部位と各論文との対応関係について、図表 3-7 に示す 94 件の対応表を作成した。この対応表では、解析の結果有意であったものはもとより、有意でなかったという報告があったものについても合わせて整理した。

(3) レビューサマリの作成

(2) の対応表をもとに、がんの部位別のレビューサマリを作成した。文献レビューの構成は、厚生労働省「電離放射線障害の業務上外に関する検討会」報告書「食道がんと放射線被ばくに関する医学的知見について」（平成 24 年 9 月）を参考に以下の通りとした。

I. ○○がんに関する文献レビュー結果

1. 原爆被ばく者を対象とした疫学調査
2. 放射線作業者を対象とした疫学調査
3. 放射線診療を受けた患者を対象とした疫学調査
4. 高自然放射線地域や核実験場周辺の住民等を対象とした疫学調査

5. その他

II. 文献レビュー結果のまとめ

1. 被ばく線量（ばく露評価）に関するまとめ
2. 最小被ばく線量に関するまとめ
3. 潜伏期間に関するまとめ

図表 0-7 レビュー対象文献と部位別がんの対応

ID	著者	タイトル	1.全頭部 がん	2.脳・中枢 神経系の がん	3.口腔・咽 頭のがん	4.皮膚が ん	5.甲状腺 がん	6.食道が ん	7.胃がん	8.肺がん	9.乳がん	10.肝がん	11.胆のう がん	12.腸がん	13.腎がん	14.大腸が ん(直腸が ん、直腸 子宮が ん)	15.子宮の がん(子宮 がん、子宮 頸が ん)	16.卵巣が ん	17.前立腺 がん	18.膀胱が ん	19.その他 のがん	20.凝溶腫 瘍(特に粘 膜表皮が ん)、肉腫
686	Krestinova, L. Y., D. L. Preston, E. V. Ostrovnova et al.	Protracted radiation exposure and senior mortality in the Techa River cohort	有がんを 示す(癌形 がん)																			
702	Mori, T., C. Kido, K. Fukushima et al.	Summary of entire Japanese thyroid cancer follow-up study, updated 1988																				
747	Maxon, H. R. & L. Saenger, S. R. Thomas et al.	Clinical treatment-related secondary thyroid disease. A controlled study																				
752	Morrison, I., P. J. Villeneuve, J. H. Lubin et al.	Radiation exposure and lung cancer risk in a cohort of Newfoundland fluorspar miners																				
760	Laurier, D. M., M. Timarche, N. Milton et al.	Incidence of thyroid nodularity among French uranium miners: extended follow-up and search for causes																				
763	Little, M. P., M. W. Charles, J. W. Hislop et al.	Assessment of skin doses	非黒色癌 皮膚がん																			
768	Land, C. E., T. Saku, Y. Hayashi et al.	Incidence of salivary gland tumors among atomic bomb survivors, 1950-1985: Evaluation of radiation-dose-response																				
632	Matsson, A. B. I., Ruden, J. Palmgren et al.	Dose- and time-response for breast cancer after external radiation therapy for benign breast disease																				
634	Patterson, L. M., M. M. Kaplan, P. R. Larsen et al.	Thyroid nodularity after childhood irradiation: a case-control study: a comparison of questionnaire and clinical findings																				
766	Preston, D. L., D. A. Pierce, Y. Shimizu et al.	Effect of dose changes in atomic bomb survivor dosimetry on cancer mortality risk estimates	全頭部が ん																			
572	Preston, D. L., D. A. Pierce, D. A. Ronan et al.	Definition of atomic bomb survivors. Report 13: solid cancer and noncancer disease mortality (1950-1998)	全頭部が ん																			
765	Preston, D. E., Ron, S. Tokouka et al.	Solid cancer incidence in atomic bomb survivors: 1958-1998	全頭部が ん	神経がん	口腔がん	皮膚がん	甲状腺が ん	食道がん	胃がん	肺がん	乳がん	肝がん	胆のうが ん	腎のうが ん	膀胱がん (直腸がん 有り差なし)	結腸がん (直腸がん 有り差なし)	子宮がん (有り差なし)	卵巣がん (有り差なし)	前立腺が ん(有り差 なし)	膀胱がん (有り差なし)		
754	Pruett, E. P. & K. G. St. Clair	Lung cancer in Swedish iron miners exposed to low doses of radon daughters																				
664	Riegel, A., N. Carre, E. Amoros et al.	Mortality of workers exposed to ionizing radiation at the French national electricity company																				
616	Ron, E., B. Modan, D. Preston et al.	Thyroid nodularity and low-dose radiation in childhood																				
617	Ron, E., B. Modan, D. Preston et al.	Lung cancer in children with skin carcinomas of the head and neck																				
618	Ron, E., B. Modan, J. D. Boice Jr. et al.	Tumors of the brain and nervous system after radiotherapy in children																				
678	Ron, E., M. M. Doody, D. V. Becker et al.	Cancer mortality following treatment for adult hyperthyroidism	脳・神経系 のがん	口腔が ん	皮膚が ん	甲状腺が ん	食道が ん	胃が ん	肺が ん	乳が ん	肝が ん	胆のうが ん	腎のうが ん	膀胱が ん(直腸が ん有り差 なし)	結腸が ん(直腸が ん有り差 なし)	子宮が ん(有り差 なし)	卵巣が ん(有り差 なし)	前立腺が ん(リスク減 少)	膀胱が ん(有り差 なし)			
772	Ryberg, M., M. Lundell, B. Nilsson et al.	Malignant disease after radiation treatment of benign gynaecological disorders: a study of a cohort of metroplastis patients	脳がん(有 り差なし) ・神経 系のがん (有り差 なし)																			
622	Shore, R. E., N. Hildreth, E. Wooldard et al.	Breast cancer among women given x-ray therapy for acute postpartum mastitis																				
619	Shore, R. E., M. M. Miseison, X. Xue et al.	Skin cancer after x-ray treatment for scalp ringworm																				
742	Shore, R. E.	Classification of biological evidence regarding radiation-induced thyroid cancer																				
625	Shore, R. E., N. Hildreth, P. D'Urso et al.	Thyroid nodularity in persons given x-ray treatment in infancy for childhood cancer																				
755	Simet, J. M., D. R. Pathak, M. V. Morgan et al.	Lung cancer mortality and exposure to radon progeny in a population-based cohort of uranium miners																				
627	Schneider, A. B., E. Ron, J. Lubin et al.	Dose-response relationships for radiation-induced thyroid cancer and other cancers in the study for the prolonged effects of radiation on the thyroid																				
738	Selderski, S., A. Chetrit, L. Freedman et al.	Long-term follow-up for brain tumor incidence after childhood radiation after radiotherapy for glioma	脳の腫瘍																			
598	Travis, L. B., M. Gospodarowicz, R. E. Curtis et al.	Classification of biological evidence regarding radiation-induced thyroid cancer																				
596	Travis, L. B., M. A., P. H. Morris Jones, J. D. Boice Jr. et al.	Lung cancer mortality and exposure to radon progeny in a population-based cohort of uranium miners																				
761	Timarche, M., A. Raphalen, F. Allin et al.	Mortality from cancer in a cohort of relatively low radon concentrations																				
702	Travis, L. B., M. Hauptmann, L. K. Gaul et al.	Site-specific cancer incidence and mortality following radiotherapy with radioiodine therapy																				
591	van Leeuwen, F. E., W. J. Klokman, M. Stovall et al.	Roles of radiotherapy and smoking in the development of lung cancer in radon daughter-exposed miners																				
593	van Leeuwen, F. E., W. J. Klokman, M. Stovall et al.	Role of radiation doses, chemotherapy, and hormonal factors in the development of second cancers following radiotherapy																				
746	Wang, J. X., L. A. Zhang, B. X. Li et al.	Cancer incidence and mortality following radiotherapy for cervical cancer	皮膚が ん																			
710	Wiggs, L. D., E. R. Johnson, C. A. Cov Devore et al.	Radon daughter exposures at the Radium Hill uranium mine and lung cancer mortality in former workers, 1952-87		中核神經 系がん																		
759	Woodward, A. D., Roder, A. J., McMichael et al.	Mortality from cancer in a cohort of plutonium production workers at the Los Alamos National Laboratory: considering exposures to plutonium and plutonium decay products																				
650	Wilkinson, G. S., G. L. Tietjen, L. D. Wiggs et al.	A comparison of cancer incidence and mortality between plutonium and other radiation workers at a plutonium weapons facility	頭蓋内腫瘍																			
749	Xuan, X. Z., J. H. Lubin, J. Y. Li et al.	A comparison of cancer incidence and mortality between plutonium and other tin miners exposed to radon and radon decay products																				