

Supplementary Table S3. Therapy-Related APL in Adults

Primary Disease (n)	t-APL Cases (n)	Age Range (yrs)	Gender (M/F)	Time to APL (mo)	Treatment for Primary Disease (n)	Reference
breast carcinoma (4), laryngeal carcinoma (1)	5	N/A	N/A	N/A	radiation (5), mitoxantrone (4), cyclophosphamide (4), vincristine (1), doxorubicin (1), tamoxifen (1), 5-FU fluorouracil (1)	Mistry et. al (2005) [40]
colon cancer (1), breast cancer (2)	3	41- 66	0/3	N/A	topoisomerase II inhibitors (1), alkylating agents (1), radiation (2)	Bhavnani et. al (1994) [234]
breast carcinoma (6)	6	40 - 66	N/A	18 - 48	epirubicin (6), cyclophosphamide (6), radiation (5), 5-FU fluorouracil (2), methotrexate (2)	Mays et. al (2010) [247]
multiple sclerosis (13)	13	21 - 61	6/6 ^a	2 - 60	mitoxantrone (13)	Ellis and Bogglid (2009) [220]
seminoma (1), breast cancer (1)	2	22,69	1/1	31 30	etoposide (1), cisplatin, (1) bleomycin (1), tamoxifen (1), epirubicin (1), cyclophosphamide (1), 5-FU-fluorouracil (1), methotrexate (1), radiation (1)	Hoffman et. al (1995) [243]
Hodgkin lymphoma (3)	3	23 - 32	2/1	14 - 270	radiation (3), mechloethamine (2), vincristine (2), procarbazine (2), prednisone (2), adriamycin (1), bleomycin (1), vinblastine (1), dacarbazine (1)	Gillis et. al (1995) [241]
prostate carcinoma (1)	1	74	1/0	N/A	radiation (1)	Chen et. al (1996) [235]
chronic lymphocytic leukemia (1), prostate carcinoma (1)	1	69	1/0	N/A	radiation (1), leuprolide (1)	Molero et. al (2001) [248]
multiple sclerosis (1)	1	36	1/0	60	mitoxantrone (1)	Ghalie et. al (2002) [240]
prostate cancer (2), mixed germ cell tumor (1), breast cancer (5), follicular lymphoma (3), squamous cell carcinoma (2), malignant fibrous histiocytoma (1), diffuse large B-cell lymphoma (1), adeno-carcinoma (1), chronic lymphocytic leukemia (1)	17	35 - 81	9/8	17 - 116	radiation (14), interferon (2),cyclophosphamide (8), doxorubicin (7), vincristine (4), prednisone (4), ifosfamide (1), fluorouracil (4), methotrexate (2), tamoxifen (1), rituximab (2), fludarabine (2), 5-fluorouracil (1), anastrozole (1)	Yin et. al (2005) [253]
prostate cancer (2)	1	67	1/0	16	brachytherapy (radiation) (1)	Sinha et. al (2006) [252]
multiple sclerosis (2)	2	51, 48	1/1	22,2	mitoxantrone (2)	Ramkumar et. al (2008) [251]
multiple sclerosis (5)	5	23 - 59	2/3	1 - 45	mitoxantrone (5), interferon beta (3), azathioprine (1)	Pascual et. al (2009) [250]
ovarian carcinoma (1), choriocarcinoma (1), neuroectodermal tumor (1)	3	33 - 48	1/2	20 - 42	cisplatin (1), bleomycin (1), etoposide (3) methotrexate (1), actinomycin-D (1), vincristine (1), cyclophosphamide (1), carboplatin (1)	Malhotra et. al (2010) [245]
testicular cancer (2), non-Hodgkin lymphoma (4), prostate cancer (5), cervical cancer (2), head and neck squamous cell carcinoma (2), breast cancer (8), arthritis (1), stomach cancer, small lymphocytic lymphoma (1), myelodysplastic syndrome/acute myeloid leukemia (1), seminoma (1), multiple sclerosis (1), malignant fibrous histiocytoma ^b	29	35 - 81	15/14	1 - 19	adriamycin (6), bleomycin (2), cisplatin (4), cyclophosphamide (8), doxorubicin (4), vincristine (4), prednisone (4), mitoxantrone (6), etoposide (2), methylprednisone (1), high-dose cytarabine (1), paclitaxel (4), capecitabine (1), rituximab (2), 5-fluorouracil (2), fludarabine (1), cytarabine (1), idarubicin (1), epirubicin (1), docetaxel (1), ifosfamide (1), radiation (23)	Dayyani et. al (2011) [237]
testicular cancer (1), prostate cancer (1), breast cancer (3), pancreatic cancer (1), cardiac transplant (1), membranous glomerulonephropathy (1), myelodysplastic syndrome (1)	9	29 - 69	4/5	14 - 132	radiation (5), alkylating agent (1), topoisomerase II inhibitor (2), unspecified chemotherapy (1), antimetabolite chemotherapy (1), immunosuppression (2)	Duffield et. al (2012) [238]
lung carcinoma (2), prostate carcinoma (2), breast carcinoma (2), endometrium carcinoma (1), non-Hodgkin lymphoma (1), rheumatoid arthritis (2), Crohn's disease (1)	11	18 - 76	6/5	N/A	etoposide (2), carboplatin (2), radiation (6), adriamycin (3), cyclophosphamide (3), paclitaxel (1), herceptin (1), bleomycin (1), vinblastine (1), vincristine (1), procarbazine (1), prednisone (1), azathioprine (2), mitoxantrone (3), TNF-alpha inhibitor (2), 6-mercaptopurine (1)	Elliot et. al (2012) [239]
non-Hodgkin lymphoma (1), multiple sclerosis (8), Lewis-Sumner syndrome (1), corpus uteri carcinoma (1), Hodgkin lymphoma (1), prostate cancer (2), histiocytoma (1), breast cancer (1)	16	29 - 79	7/9	N/A	rituximab (1), cyclophosphamide (1), hydroxydaunorubicin (1), oncovin (1), prednisone (1), mitoxantrone (8), azathioprine (1), radiation (6), adriamycin (1), bleomycin (1), vinblastine (1), dacarbazine (1), hormone therapy (1)	Ottone et. al (2012) [216]
N/A	1	50	0/1	N/A	mitoxantrone (1), cyclophosphamide (1), fluorouracil (1), radiation (1)	Linassier et. al (2000) [244]
gestational trophoblastic disease (1), mantle cell lymphoma (1)	2	27,74	1/1	12,24	methotrexate (1), bleomycin (1), etoposide (1), cyclophosphamide (1), vincristine (1), procarbazine (1), prednisolone (1)	Au et. al (2002) [38]
breast carcinoma (60), non-Hodgkin lymphoma (5), Hodgkin lymphoma (2), primary CNS non-Hodgkin lymphoma (1), diffuse large B cell non-Hodgkin lymphoma (4), mucosa-associated lymphoid tissue non-Hodgkin lymphoma (1), follicular non-Hodgkin lymphoma (2), T-cell non-Hodgkin lymphoma (1), multiple myeloma (1), acute myeloid leukemia (1), hydatiform mole (1), ovarian carcinoma (2), lung epidermoid carcinoma (1), colonic carcinoma (5), neuroepithelioma (1), prostate carcinoma (5), bladder carcinoma (2), primary location unknown carcinoma (1), thyroid carcinoma (3), tongue carcinoma (1), ovarian/endometrial carcinoma (1), astrocytoma (1), larynx carcinoma (1), multiple sclerosis (1), polyradiculoneuritis (1) ^c	104	23 - 82	28/76	4 - 276	radiation (76), cyclophosphamide (52), ifosfamide (9), thiotepa (2), cisplatin (4), carboplatin (2), oxaliplatin (1), chlormethine (1), lomustin (1), chlorambucil (3), mitomycin (5), melphalan (4), busulfan (2), procarbazine (3), dacarbazine (1), prednimustine (2), etoposide (17), teniposide (2), doxorubicin (15), epirubicin (14), daunorubicin (1), mitoxantrone (28), metabolite (58), methotrexate (18), fluorouracil (43), cytarabine (7), fludarabine (1), thioguanine (1), vincristine (17), vinblastine (1), vindesine (7)), vinorelbine (3), bleomycin (8), taxanes (1), ellipticine (1), irinotecan (1)	Beaumont et. al (2003) [208]
multiple sclerosis (13)	13	24 - 59	6/7	13 - 237	mitoxantrone (11), prednisone (1), IFN-beta (1)	Hasan et. al (2008) [242]
breast cancer (1)	1	36	0/1	N/A	radiation (1), hormone therapy (1), tamoxifen (1), medroxyprogesterone acetate (1),	Ono et. al (2008) [249]
breast cancer (1), corpus uteri carcinoma (1), multiple sclerosis (6)	8	27 - 65	3/5	14 - 180	radiation (2), tamoxifen (1), mitoxantrone (6), interferon (2), steroids (1)	Hasan et. al (2010) [214]
multiple sclerosis (1)	1	43	1/0	9	methylprednisolone (1), mitoxantrone (1),	Colovic et. al (2012) [236]
chronic lymphocytic leukemia (1), testicular teratoma (1)	2	46,28	1/1	25,60	bleomycin (1), etoposide (1), cisplatin (1)	Martin and Majumdar (2002) [246]

^a information about gender missing for one patient

^b one patient had both breast cancer and arthritis; one patient had both myelodysplastic syndrome and breast cancer

^c one patient had both prostate and bladder carcinoma