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<u>Horibe K</u> , <u>Saito AM</u> , Takimoto T, Tsuchida M, <u>Manabe A</u> , Shima M, Ohara A, Mizutani S	Incidence and survival rates of hematological malignancies in Japanese children and adolescents (2006-2010): based on registry data from the Japanese Society of Pediatric Hematology.	Int J Hematol.	98(1)	74-88	2013
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加藤 元博, <u>康 勝好</u> , 永利 義久, 菊地 陽, 花田 良二	同種造血幹細胞移植後に再発した急性白血病の臨床経過	日本小児血液・がん学会雑誌	50	50-54		2013
高橋 寛吉, <u>康 勝好</u> , 安井直子, 森 麻希子, 秋山 康介, 関 正史, 加藤 元博, 永利 義久, 花田 良二	5g/m2大量メトトレキサート療法の安全性に関する検討	日本小児血液・がん学会雑誌	50	38-42		2013
高橋 寛吉, <u>康 勝好</u> , 加藤 元博, 磯部 清孝, 安井直子, 森 麻希子, 秋山 康介, 菊地 陽, 花田 良二	E. coli asparaginaseに過敏反応を示した小児急性リンパ性白血病に対するErwinia asparaginaseの安全性の検討	臨床血液	54	370-377		2013
<u>小川千登世</u> , <u>真部 淳</u> , 小原 明, 石黒 精	L-asparaginaseを含む急性リンパ性白血病治療中の凝固障害に対する国内外の支持療法の現状	臨床血液	54	316-318		2013
<u>鶴澤正仁</u>	小児ALLの病態と治療戦略	臨床血液	54	2038-2046		2013
<u>鶴澤正仁</u>	小児リンパ腫の治療(思春期・若年成人も含めて)	臨床血液	54	1770-1779		2013
<u>鶴澤 正仁</u>	小児リンパ腫の治療(思春期・若年成人も含めて)	血液内科	66	138-145		2013
<u>堀 壽成</u>	ALLの微小残存病変の評価と活用法	血液内科	68(2)	210-219		2014
岩本彰太郎・ <u>出口隆生</u>	フローサイトメトリー法による小児急性白血病の微小残存病変の検出	医学のあゆみ	245(12)	1003-1009		2013
<u>嶋田博之</u>	慢性骨髄性白血病	小児科診療	増刊号	印刷中		2014

石田也寸志、有瀧健太郎、 浅見恵子、大園秀一、 <u>前田美穂</u> 、山口悦子、 <u>堀部敬三</u> 、 加藤俊一、藤本純一郎、 黒田達夫	小児がん経験者のための 長期フォローアップ手帳 に関するアンケート調査	日本小児血液 ・がん学会雜 誌	50(2)	220-226	2013
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前田尚子、濱島 崇、山家由子、関水匡大、 <u>堀部敬三</u>	小児期の造血幹細胞移植後の甲状腺病変についての検討	臨床血液	54(3)	263-268	2013
<u>堀部敬三</u>	特集:血液の悪性造血腫瘍治療最新のポイント 小児白血病	現代医学	60(2)	251-255	2012
<u>堀部敬三</u>	小児ALLの治療方針	臨床血液	53(10)	1538-1548	2012
末延聡一, <u>堀部敬三</u>	思春期および若年成人の急性リンパ性白血病:その特徴と治療方針	臨床血液	53 (8)	740-746	2012
古賀友紀, 熊谷昌明, 瀧本哲也, 三間屋純一, 中澤温子, <u>堀部敬三</u> , 小林良二, <u>鶴澤正仁</u> , 稲田浩子, <u>森鉄也</u>	本邦における小児Hodgkinリンパ腫157例の後方視的検討 -小児がん研究4グループによる調査-	臨床血液	53 (4)	443-449	2012
<u>康 勝好</u>	B/T急性リンパ性白血病	小児科	53	1679-87	2012
<u>康 勝好</u>	予防接種の基礎知識 血液腫瘍疾患、臓器移植と予防接種	小児科学レクチャー	2	285-90	2012
<u>康 勝好</u>	急性リンパ性白血病	小児内科	44	558-9	2012
<u>富澤大輔</u>	特集「白血病の新しい治療戦略」1. 乳児白血病	小児科	53(12)	1653-61	2012

石田 也寸志(聖路加国際病院 小児科), 渡辺 静, 小澤 美和, 米川 聡子, <u>小川千登世</u> , 長谷川 大輔, 細谷 要介, 吉原 宏樹, 真部 淳, 森本 克, 西村 昂三, 細谷 亮太	小児がん経験者の晩期合併症の予測は可能か 聖路加国際病院小児科の経験	日本小児血液・がん学会雑誌	49(1-2)	31-39	2012
<u>小川 千登世</u>	【白血病の新しい治療戦略】再発急性リンパ性白血病	小児科	53(12)	1669-1678	2012
<u>小川千登世</u>	わが国における小児Tリンパ芽球性白血病の臨床的特徴	血液内科	65(3)	408-417	2012
<u>小川千登世</u> , <u>真部 淳</u> , 小原 明, 石黒 精	L-asparaginaseを含む急性リンパ性白血病治療中の凝固異常に対する国内外の支持療法の現状	臨床血液	54(3)	316-318	2013
菊田 敦	T細胞非除去 HLA 半合致移植の開発と難治性小児白血病に対する臨床導入	日本小児血液・がん学会雑誌	49	423-428、	2012
<u>嶋田博之</u>	慢性骨髄性白血病	小児疾患の診断治療基準 第4版 小児内科.	Vol. 44 増刊号	564-565	2012
長谷川大輔、 <u>真部 淳</u>	骨髄異形成症候群／若年性骨髄単球性白血病	日本臨床70 (Suppl 2)	日本臨床増刊「造血器腫瘍学」(金倉讓編)	681-686	2012
<u>真部 淳</u>	若年性骨髄単球性白血病(JMML)の分子機構と治療	臨床血液	53	729-733	2012
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V. 代表的論文

Improved Treatment Results of Children With B-Cell Non-Hodgkin Lymphoma: A Report From the Japanese Pediatric Leukemia/Lymphoma Study Group B-NHL03 Study

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Background. Previous Japanese studies of childhood B-cell non-Hodgkin lymphoma (B-NHL) have shown a favorable outcome, though the study size was too small to effectively assess the efficacy and safety of treatment for childhood B-NHL. **Procedure.** We performed a nation-wide prospective B-NHL03 study to assess the efficacy and safety of short-pulse intensive chemotherapy for children with B-NHL. They were stratified into four treatment groups according to disease stage, tumor resectability and bone marrow/CNS involvement: Group 1 with all resected stage I/II, Group 2 with non-resected stage I/II, Group 3 with stage III & CNS-negative stage IV, and Group 4 with CNS-positive stage IV & Burkitt leukemia. Treatment duration was 2 courses for Group 1, 4 courses for Group 2, and 6 courses for Groups 3 and 4, respectively. CNS irradiation was

omitted in all patients. **Results.** The follow-up time ranged from 0.8 to 88 months, with a median of being 45 months. For 321 patients analyzed in this study, overall survival and event-free survival (EFS) at 4 years was 92.7% and 87.4%, respectively. The 4-year EFS according to treatment group were 94% for Group 1 (n = 17), 98% for Group 2 (n = 103), 84% for Group 3 (n = 111), and 78% for Group 4 (n = 90). There was no significant difference in outcome by histology. Therapy-related death occurred in three patients in remission. **Conclusions.** Our nationwide large-scale study resulted in a cure rate above 90% with <1% toxic death in childhood B-NHL. *Pediatr Blood Cancer* 2014;61:1215–1221.

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Key words: B-NHL03; childhood; JPLSG; non-Hodgkin lymphoma

INTRODUCTION

Childhood B-cell non-Hodgkin Lymphoma (B-NHL) consists mainly of two histological subtypes, namely Burkitt lymphoma (BL), which includes Burkitt leukemia (B-ALL), and diffuse large B-cell lymphoma (DLBCL). The cure rate of childhood BL has been markedly improved over the past 30 years, and long-term event-free survival (EFS) of patients has reached to approximately 90%. This is largely due to prospective studies of European and North American groups that developed a short intensive chemotherapy regimen, including a high-dose methotrexate (HDMTX), an intermediate dose of cyclophosphamide (CPA), and anthracyclines [1–6]. Although DLBCL is a distinct disease entity from BL, the treatment is the same as that for patients with Burkitt histology, and excellent outcome has been reported [1–6]. Previously most clinical experiences of childhood B-NHL were reported by European and North American study groups, and there were few data on Japanese or Asian patients with B-NHL. In the 1990s, we conducted group-wide trials for childhood B-NHL [7–10]: Horibe et al. showed a 4-year EFS with 70% for 57 patients (BL 31, B-ALL 17, DLBCL 9) [8], Kikuchi et al. showed a 6-year EFS with 82% for 91 patients (BL 45, B-ALL 9, DLBCL 26, others 11) [10], and Tsurusawa et al. showed a 7-year EFS with 93% for 30 patients with DLBCL [9]. In addition, Lee et al. has recently shown a 5-year EFS with 95% for 61 patients (BL 46, DLBCL 15) [11]. However, the treatment duration of these studies was relatively long and the number of patients was small compared to the European and North American studies [1–6].

Here, we report on the results of the nation-wide large prospective study for children with B-NHL. The primary object was to evaluate the efficacy and safety of short-pulse intensive chemotherapy regimen designed by the Japanese Pediatric Leukemia/Lymphoma Study Group (JPLSG).

PATIENTS AND METHODS

Study Design and Diagnostic Criteria

The B-NHL03 study was a prospective nonrandomized trial that investigated the efficacy and safety of short-pulse intensive chemotherapy in childhood B-NHL. The chief aim was to improve the outcomes of patients enrolled in the B-NHL03 study to the level of those of European and North American studies.

Additional Supporting Information may be found in the online version of this article.

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Conflict of interest: Nothing to declare.

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The diagnosis of B-NHL was based on histopathology, immunocytochemistry, and cytogenetics. All histopathological specimens were first classified by the institutional pathologist and finally each of them were reviewed by a group of seven pathologists of a central pathological review committee according to WHO classification, that is, BL or Burkitt-like lymphoma (BLL), DLBCL, mediastinal large B-cell lymphoma (MLBCL), and mature B-cell neoplasm, NOS (not otherwise specified) [12]. A mature B-cell phenotype was primarily defined as positive for C20 and/or CD79a and negative for CD3 and terminal deoxynucleotidyl transferase. When an immunophenotype study was not available, specific translocations t(8;14)(q24;q32), t(2;8)(p11;q24), t(8;22)(q24;q11) at cytogenetic analysis were included. CNS involvement was diagnosed by the presence of one or more of the following: any blasts with FAB L3 morphology in CSF, isolated intracerebral mass, or intra-spinal extension. The clinical stage was defined by Murphy's classification [13].

Treatments

The treatment outline is shown in Figure 1 and chemotherapy regimens are shown in Table I. They were stratified into four treatment groups according to disease stage, tumor resectability and bone marrow/CNS involvement: Group 1 with all resected stage I/II, Group 2 with non-resected stage I/II, Group 3 with stage III & CNS-negative stage IV, and Group 4 with CNS-positive stage IV & B-ALL. All groups except Group 1 received a pre-phase therapy of prednisolone (PSL), vincristine (VCR), CPA and it (intrathecal) MTX to reduce tumor volume. As shown in Figure 1, Group 1 received two courses (1A × 2), Group 2 received 4 courses (2A × 2 + 2B × 2), Group 3 received 6 courses (3A × 4 + 3B × 2), and Group 4 received 6 courses (4A1 × 2 + 4A2 × 2 + 4B × 2), respectively. No patients received prophylactic cranial irradiation. Patients with CNS involvements received HDMTX (5 g/m²) plus an extended it regimen (14 times), but no therapeutic cranial irradiation. The schedule of HDMTX administration was identical

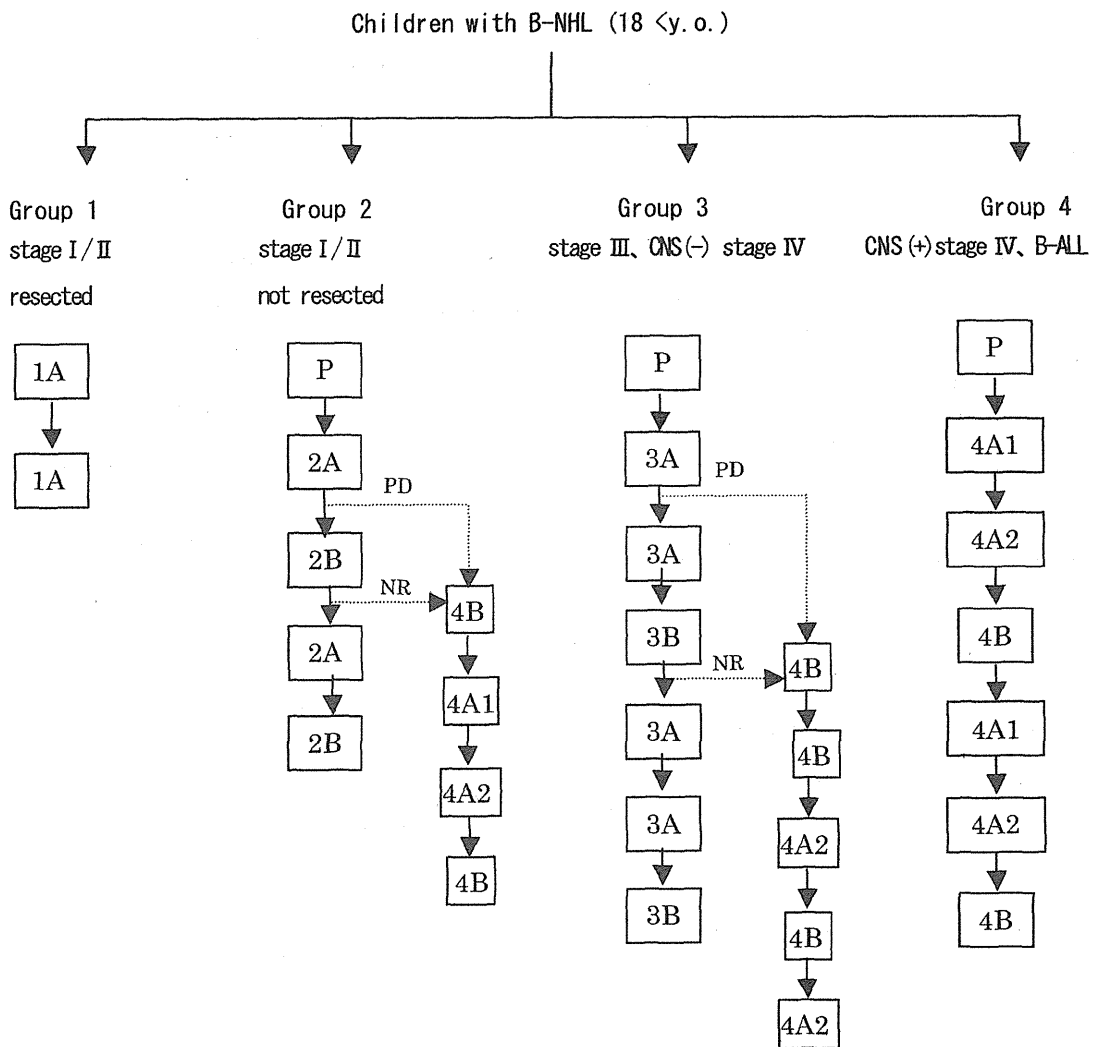


Fig. 1. Treatment framework of the B-NHL03 study. Patients were stratified into four treatment groups according to disease stage, tumor resectability, and BM/CNS involvement. All groups except Group 1 received pre-phase therapy. Group 1 received two courses of chemotherapy, Group 2 received 4 courses, Groups 3 and 4 received 6 courses, respectively. When patients in Group 2 or 3 did not achieve CR or CRu during the first 2 or 3 courses, they received salvage therapy consisting of 4B and 4A1/2 courses.

TABLE I. B-NHL03 Treatment Schedules

Regimen	Administration	Daily dose	Days
Pre-phase			
Prednisolone	Orally	30 mg and 60 mg/m ²	Days 1–3 and 4–7
Vincristine	IV	1 mg/m ²	Day 3
Cyclophosphamide	IV	150 mg/m ²	Days 4–6
Methotrexate	TIT	12 mg/m ²	Day 1, (4) ^a
Hydrocortisone	TIT	25 mg/m ²	Day 1, (4) ^a
Cytarabine	TIT	30 mg/m ²	Day (4) ^a
Regimen 1A			
Prednisolone	Orally	60 mg/m ²	Days 1–5
Methotrexate	IV	1 g/m ²	Day 1
Vincristine	IV	1.5 mg/m ²	Day 2
Cyclophosphamide	IV	250 g/m ² × 2	Days 2–4
THP-adriamycin	IV	30 mg/m ²	Days 3, 4
Methotrexate	DIT	12 mg/m ²	Day 1
Hydrocortisone	DIT	25 mg/m ²	Day 1
Regimen 2A			
Same as 1A except for dexamethasone	Orally	10 mg/m ²	Days 1–7
Methotrexate	IV 24 hours with LV rescue	3 g/m ²	Day 1
Regimen 3A			
Same as 2A except for <i>i.i.t</i> at day 1			
Regimen 4A1			
Same as 3A except for methotrexate	IV 24 hours with LV rescue	5 g/m ²	Day 1
Methotrexate	TIT	12 mg/m ²	Day 1, (5), ^a 8
Hydrocortisone	TIT	25 mg/m ²	Day 1, (5), ^a 8
Cytarabine	TIT	30 mg/m ²	Day 1, (5), ^a 8
Regimen 4A2			
Same as 4A1 except for cyclophosphamide	IV	1 g/m ²	Days 4, 5
Regimen 2B			
Methotrexate	IV 6 hours	500 mg/m ²	Day 1
Cytarabine	cIV	150 mg/m ²	Days 1–5
Methotrexate	DIT	12 mg/m ²	Day 1
Hydrocortisone	DIT	25 mg/m ²	Day 1
Regimen 3B			
Same as 2B except for TIT at day 1, and cytarabine	cIV	150 mg/m ²	Days 1–6
Etoposide	IV	100 mg/m ² × 2	Days 3–5
Regimen 4B			
Same as 3B except for without methotrexate, DIT at day 1 and TIT at day 8, and dexamethasone	Orally	10 mg/m ²	Days 1–7
Cytarabine	IV	2 g/m ² × 2	Days 2–4
Etoposide	IV	150 mg/m ²	Days 2–5
Vincristine	IV	1.5 mg/m ²	Day 1

LV, leucovorin; IV, intravenous; cIV, continuous intravenous; DIT, double intrathecal; TIT, triple intrathecal. ^aFor CNS positive patients.

to that of the B-NHL960 study [9]: HDMTX was administered for the first 24 hours, and 12 hours later, leucovorin (LV) 15 mg/m² was given orally every 6 hours, for a total of seven doses [9]. Blood MTX concentration was measured 24, 48, and 72 hours after the MTX administration. When patients showed delayed MTX clearance ($\geq 0.2 \mu\text{M}$ after 72 hours), LV rescue was continued until MTX concentration level decreased to less than 0.2 μM .

Induction failure (IF) was defined as patients who did not achieve complete remission (CR) or unconfirmed remission (CRu) until the last evaluation time (before the second course of 2A in Group 2, before the third course of 3A in Group 3, before the second course of 4A1 in Group 4). When patients in Group 2 or 3 were evaluated to have progressive disease or no response during the first 2 or 3 courses, they received salvage therapy consisting of regimens 4B and 4A1/2. The cumulative dose of cytotoxic drugs for treatment groups was as follows: CPA 3 g/m², THP 120 mg/m² for Group 1;

CPA 3.45 g/m², THP 120 mg/m² for Group 2; CPA 6.45 g/m², THP 240 mg/m², VP16 0.6 g/m² for Group 3; CPA 7.45 g/m², THP 240 mg/m², VP16 1.2 g/m² for Group 4.

Statistical Analysis

Final statistical analyses were performed based on data obtained in June 2012. Overall survival (OS) was defined as the time between diagnosis and death from any causes, and EFS was defined as the time to first events defined as an occurrence of induction failure, relapse at any site, death from any causes, or second malignant neoplasm. For patients who did not experience an event, EFS was defined as the time to the last follow-up. Survival curves were prepared using the Kaplan–Meier method and standard errors (SEs) with the Greenwood formula. The significance of differences in survival outcomes was determined by means of the log-rank test.