

CURRICULUM VITAE

NAME:

Morris Kletzel, M.D.

**OFFICE ADDRESS AND
TELEPHONE**

Children's Memorial Medical Center
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BIRTHDATE:

January 16, 1949

BIRTHPLACE:

Mexico, D.F.

MARITAL STATUS:

Married - Irene
2 children - Jonathan and Daphne

EDUCATION:

BS Escuela Natl. Preparatoria #1 Mexico City
1964-1967

M.D. Facultad de Medicina
National Autonomous University of Mexico
1967-1971

**POSTGRADUATE
EDUCATION:**

Internship Asaf Harofe Hospital
University of Tel Aviv, Israel
1971-1972

Social Service
Outpatient Clinics in Mexico City and
Private Practice in Internal Medicine
1972-1975

Pediatric Resident
University of Arkansas Health Science Center
Little Rock Arkansas
1975-1977

Chief, Pediatric Resident
University of Arkansas Health Science Center
Little Rock Arkansas
1977-1978

Fellow
Pediatric Hematology/Oncology
M.D. Anderson Hospital and Tumor Institute
University of Texas – Houston, Texas.
1978-1979

Chief Fellow
Pediatric Hematology/Oncology
M.D. Anderson Hospital and Tumor Institute
University of Texas –
Houston, Texas
1979-1980

CERTIFICATION:
AND LICENSE:

Pediatrics, 1980 #24238
Mexican Board of Pediatrics, 1982.
Arkansas License #C 6940, August, 1985
Mexico License #266453, January, 1974
Illinois License #036 083571, July 1991.
Pediatric Hematology Oncology Feb., 1997
Pediatric Hematology Oncology Re-certification #0001265
May 2002

ACADEMIC
APPOINTMENTS:

Assistant Professor of Pediatrics
University of Arkansas for Medical Sciences/
Arkansas Children's Hospital
Little Rock Arkansas
October, 1984 June 30, 1990

Associate Professor Pediatrics
University of Arkansas for Medical Sciences/
Arkansas Children's Hospital –
Little Rock Arkansas
July 1, 1990 -1991

Associate Professor
Northwestern University Feinberg School of Medicine/
The Children's Memorial Hospital
Chicago Illinois
1991- 1998.

Professor of Pediatrics
Northwestern University Feinberg School of Medicine
The Children's Memorial Medical Center

Chicago Illinois
1998-present

HOSPITAL
APPOINTMENTS:

Member of the Medical Staff
Spanish Hospital - Mexico City
1980 October, 1984

Member of the Medical Staff
ABC Hospital - Mexico City
1980 October, 1984

Staff Member
Hospital Infantil Privado - Mexico City
1980 October, 1984

Chief, Hematology/Oncology
Pediatric Department
General Hospital S.S.A. - Mexico City
1980 October, 1984

Consultant, Department of Oncology
Shriner's Hospital - Mexico City
1981 October, 1984

Director, Bone Marrow Transplant Program
Arkansas Children's Hospital - Little Rock
1985-1991

Director, Hemophilia Center of Arkansas
Arkansas Children's Hospital - Little Rock
1985-1991

Director, Bone Marrow Transplant Program
The Children's Memorial Hospital - Chicago
1991-2004

Director Stem Cell Transplant and Graft Engineering
Laboratory Children's Memorial Hospital Chicago Illinois
1991-present

Member of The Robert H. Lurie Cancer Center at
Northwest University Feinberg School of Medicine
1991- present

Medical Director of the Day Hospital
Children's Memorial Hospital Chicago Illinois
1992-2002

Clinical Director Division of
Pediatric Hematology Oncology
Children's Memorial Hospital Northwestern University
1999-2002

Director Therapeutic Pheresis
Children's Memorial Hospital Chicago Illinois
2001-present

Division Head Pediatric Hematology/ Oncology and Stem
Cell Transplantation Northwestern University Feinberg
School of Medicine Department of Pediatrics
Children's Memorial Hospital
2002-present

Member of The Children's Memorial Research Center
(formerly CMIER) 2001-present

**PROFESSIONAL
SOCIETIES:**

Society of the Mexican Oncologists 1980-1984

Central Arkansas Pediatric Society 1984-1991

Member: Arkansas Medical Society 1984-1991

Southern Society for Pediatric Research 1984-1991

Arkansas Blood and Cancer Society 1988 -1991

American Academy of Pediatrics I.D.101771.

Association of the American British Cowdray Hospital
1980 present

American Society of Pediatric Hematology/Oncology
1984 present

Pediatric Oncology Group (POG) 1984 -2001

American Medical Association 1984 -1993

Hemophilia Research Society 1987- 2000

International Society for Cellular Therapy (Former
ISHAGE) 1993-present

American Society for Blood and Marrow Transplantation
1994-present

International Society of Pediatric Oncology (SIOP)
1995-present

American Association for the Advancement of Science
1999-present

American Society of Clinical Oncology (ASCO)
2000-present

Children's Oncology Group (COG)
2000—present

American Association of Blood Banks member #32918
1998-present

New York Academy of Sciences
2001-present

International Society of Stem Cell Research
2003-present

American Society of Hematology (ASH)
2003-present

COMMITTEES:

Member: American Red Cross Advisory Committee
Little Rock Chapter,
1985-1991

Member: Pharmacy & Therapeutics Committee `
(ACH),
1986-1989

Member: Organ Donation Committee ACH,
1986-1991

Chairman: Morbidity & Mortality Conference (ACH),
1987-1991.

Member: Cancer Research Committee UAMS,
1987 - 1991

Member: Medical Advisory Committee National
Hemophilia Foundation Arkansas Chapter,
1987-1991

Chairman: Ethics Committee ACH,
1987 -1991

Member: Organ Transplantation Committee ACH,
1987-1991

Member: Ronald McDonald House,
1989 -1991

Member: CARTI Medical Advisory Board,
1990 -1991

Member: Bone Marrow Transplant Core Committee POG,
1986 - 2001

Member: Neuroblastoma Core Committee, POG,
1990 - 2001

Member: Cancer Committee CMH,
1991 – 2002

Chairman: Cancer Committee CMH
2002-Present

Member: Research Review Committee
Northwestern University Lurie Cancer Center
1991-1999

Member: Educational Committee International Society of
Hematotherapy and Graft Engineering
1993 - 2001

Member National Wilms' Tumor Study group
1994- 1999

Member Advisory Board The Childhood Leukemia
Foundation
1995-Present

Member: International Bone Marrow Transplant Registry
Subcommittee on Myelodysplastic syndromes.
1997-present

Member: North American Autologous Bone Marrow
Transplant Registry Committee on Pediatric Tumors
1995-present

Member: Israel Children's Cancer Foundation Medical
Council
1998- present.

Member: Northwestern University Feinberg School of
Medicine Medical School Appointments, Promotion and
Tenure committee
1999-2002.

Member: National Registry of Who is Who 2001 Edition #
135156 Co-Chair Pediatric Blood and Marrow Transplant
Consortium Oncology Strategy group
2000-2002

Member Children's Oncology Group (COG)
Neuroblastoma Strategy Committee
2001-2004

Member American Society of Blood and Marrow
Transplant Standards Committee
2002-present

Member Advisory Board Gilda's Club
2002-present

Member International Bone Marrow Transplant Registry
IBMTR Immune Disorders/ Metabolic Deficiencies
Committee
2001-present

**HONORS AND
AWARDS:**

Physicians Recognition Award in Continuing
Medical Education:

April 1980
July 1983
May 1986
May 1989
May 1992
June 1995
June 1999
July 2002

- Honored Faculty, University of Arkansas for Medical Sciences, College of Medicine Class of 1989 and 1990
- Miracle Maker Award 1995
- Earl J. Frederick award CMH 1995
- Richard A Perrit Endowed Professorship in Stem Cell Transplant 2002
- Americas Top Pediatricians (Pediatric Hematology/Oncology) 2002-2003 Consumer Research Council.
- Meryl Suzanne Weiss Endowed Professorship in Pediatric Hematology Oncology 2002-to date
- The College of American Pathologist Surveys and Educational Anatomic Pathology Program. 1999, 2000, 2001, 2002.
- 2003 National Leadership Award from the National Republican Congressional Committee. Honorary Chairman Physicians Advisory Board.
- Best Doctors in America 2003-2004
- National Leadership Award from the National Republican Congressional Committee 2003
- 2003 Physician of the year award The National Congressional Committee.
- 2004 Pioneer of Health Care Reform The National Congressional Committee Physician Advisory Board.

JOURNAL

REVIEWER:

Bone Marrow Transplantation
1994-to present

American Journal of Ped. Hem/Onc
1994-to present
Cancer
1998-to present

British Journal of Oncology
1998-to present

Medical and Pediatric Oncology
2000-to present

Journal of Clinical Oncology
2001 to present

Journal of Hemathotherapy and Stem Cell Research
2000 to present

Pediatric Transplantation
2001 to present

Journal of Pediatric Hematology Oncology
2001 to present
Cytotherapy
2001 to present

Blood
2002 to present

Pediatric Blood and Cancer
2004 to present

**EDITORIAL
CONTRIBUTIONS**

Associated editor Year Book of Oncology 1996
International Associated Editor Anales Medicos 1994 -present

PUBLISHED ARTICLES IN PEER REVIEW JOURNALS.

1. Evans H., Kletzel M., Lawson R., Frankel L., and Hopfer R.: systemic Mycosis Due to Trichosporon Cutaneum. A Report of Two Additional Cases. Cancer 1980; 45:367 371.
2. Kletzel M. and Jaffe Norman: Systemic Hypertension: A complication of Intra arterial Cis diammine Dichloroplatinum (11) Infusion. Cancer 1981; 47:245 247.
3. Kletzel M.: Osteosarcoma En Pediatria. Anales Medicos Hosp ABC 1985; 30:30 32.
4. Kletzel M.: Systemic Lupus Erythematous Preceding Acute Lymphoblastic Leukemia. J. Ark. Med. Soc. 1986; 82(11).

5. Kletzel M., Salmon L.E., Jessurum J.: Plasma Cell Granuloma of the Lung. *J. Ark. Med. Soc.* 1985; 20:715
6. Golladay E.S., Mollit D.L., Lang N.P., Berry D.H., Neuberger R., Kletzel M.: Conversion To Resectability by Intra arterial Infusion Chemotherapy After Failure of Systemic Chemotherapy. *J. Of Ped. Surg.* 1985; 20:715.
7. Gollin S.M., Perrot W., Gray B.A., Kletzel M.: Spontaneous Expression of t (11)(q23) in a Patient with Ewing's Sarcoma and t (11:22)(q23;q11). *Cancer Genetics and Cytogenetics* 1986; 20:331.
8. Kletzel M., Gollin S.M., Gloster E.S., Jimenez J.F., Golladay E.S., Berry D.H.: Chromosome Abnormalities in Familial Hemophagocytic Lymphohistiocytosis. *Cancer* 1986; 57(11):2153 2157.
9. Hathaway G., Stern C., Kletzel M.: Clinical Problem: Mucositis. *J. Association Ped. Onc. Nurses* 1986; 23.
10. Zaatari M.D., Chan W., Kim T., Williams D.L., and Kletzel M.: Malignant Lymphoma of the Skin in Children. *Cancer* 1987; 59(5):1040 1045.
11. Kletzel M., Charlton R., Becton D., Berry D.H.: Cryoprecipitate a Safe Factor VIII Replacement. *Lancet* 1987; 8541(1):1093.
12. Kletzel M., Arnold W.C., Berry D.H.: Paroxysmal Nocturnal Hemoglobinuria Presenting as Recurrent Hemolytic Uremic Syndrome. *Clinical Pediatrics* 1987; 26(6):319 20.
13. Alexander J.E., Woody C.R., Seibert J.J., Kletzel M.: Scurvy: Still with Us. *Clinical Pediatrics* 1987; 26(11):598.
14. Mallory S.B., Kletzel M., Turley C.P.: X linked Ichthyosis with Acute Leukemia. *Arch Dermatol* 1988; 124:22 24.
15. Becton D.L., Kletzel M., Golladay E.S., Hathaway G., Berry D.H.: An Experience with an Implanted Port System in 66 Children with Cancer. *Cancer* 1988; 61:376 378.
16. Becton D. L., Kletzel M., Arnold W.C., Berry D.H.: Thrombotic Thrombocytopenic Purpura in an Asplenic Patient with Hereditary Spherocytosis: Failure of Plasmapheresis, Antiplatelet Therapy and Corticosteroids. *Amer J Ped Hem/Onc* 1988; 10(1):5 8.
17. Advisory Committee of the International Bone Marrow Transplant Registry. Registry report. Report from the International Bone Marrow Transplant

Registry. Bone Marrow Transplantation 1989; 4:221 228.

18. Kletzel M., Miller CH, Becton DL, Chadduck WM, Elser JM: Post Delivery Head Bleeding in Hemophilic Neonates Causes and Management. AJDC 1989; 143:1107 1110.

19. Kletzel M., Miller CH, Becton DL, Chadduck WM, Elser JM: Hemorragies craniennes a la naissance chez les enfants hemophiles. Am. J. Dis. Child. Journal de Pediatrie 1989; 8:78.

20. Stephenson CA, Kletzel M, Seibert JJ, Glasier CM. Pancreatoblastoma MR Appearance. J Comput Tomogr 1990; 14(3):492 493.

21. Sawyer JR, Chadduck WM, Kletzel M. Progression of Chromosome Abnormalities after Radiation Therapy in a Patient with Askin's Tumor. Cancer Genet and Cylogenet, 1990; 47:89 94.

22. Taylor BJ, Chadduck WM, Kletzel M, Rush JE, Moore B. Anencephalic Infants as Organ Donors. The Medical, Legal, Moral and Economic Issues. Ark Med Journal 1990; 87(5):184 187.

23. Kletzel M, Beck S, Shock N, Elser J, Burks N. Trimethoprim Sulfamethoxazole (TMP/SMX) oral desensitization in HIV infected Hemophiliacs with a previous history of hypersensitivity reactions. AJDC 1991; 145:1428 1429.

24. Kletzel M, Becton DL, Berry DH. Single Institution Experience with High Dose Cyclophosphamide, Continuous Infusion Vincristine, Escalating Dose of VP 16 213 and Total Body Irradiation with Unpurged Bone Marrow Rescue in Children with Neuroblastoma. Med Ped Onc 1992; 20(1):64 67.

25. Kletzel M, Elser J, Miller CH, Shock N, Whaley P. Pancreatitis in HIV positive Hemophiliacs. AIDS patient care 1991; 5(6):280 281.

26. Hoots WK. Buchanan GR. Parmley RT. Alperin JB. Kletzel M. Sexauer CL. Comprehensive care for patients with Hemophilia: An expanded role in reducing risk for Human Immunodeficiency virus. Texas Medicine 1991, 87(6): 73-5

27. Brodsky MC, Casteel HB, Barber LD, Kletzel M, Roloson GJ; Bilateral Iris Tumors in an Immunosuppressed Child. Surv of Ophthal 1991; 36(3):217 222.

28. Kletzel M, Kearns GL, Wells TG, Thompson HC. Pharmacokinetics of High Dose Thiotepa in Children Undergoing Autologous Bone Marrow Transplantation. Bone Marrow Trans 1992; 10:171-175.

29. Jacobs RF, Vats TS, Pappa KA, Chaudrhary S, Kletzel M, Becton DL.

Ceftazidime vs. Ceftazidime and Tobramycin in Febrile Neutropenic Children. *Infection* 21 1993; 4:223-228.

30. Bortin MM, Horowitz PA, Rimm AA, Sobocinski KA, Zhang MJ, Gale RP. for the Advisory committee of the International Bone Marrow Transplant Registry. 1993 Progress Report from the International Bone Marrow Transplant Registry. *Bone Marrow Transplantation* 1993, 12:97-104.

31. Redman JF, Kletzel M Cutaneous Vesicostomy with direct intravesical application of Formalin: Management of severe vesical hemorrhage resulting from high dose Cyclophosphamide. *J. of Urology* 1994; 151:1048-1050.

32. Kletzel M, Olszewski M, Dunn G. Processing Bone Marrow with a Semi-automated cell Processor for Pediatric Transplants: A Comparison of two buffy coat preparation Methods. *Journal of Hematotherapy* 1994; 3:59-64.

33. Cohn SL, Hamre M, Kletzel M, Chou P, Radkowski MA. Intraspinal Wilms Tumor Metastases. *Cancer* 1994; 73:2444-2449.

34. Kletzel M, Longino R, Danner K, Olszewski M, Moss T. Peripheral blood Stem Cell Rescue in Children with Advance Stage Neuroblastoma. *Advances in Bone Marrow Purging and processing. Fourth International Symposium* 1993 pp513-519.

35. Sawyer JR, Crussi FG, Kletzel M. Pericentric Inversion (2) (p 15 q 35) in an Alveolar Rhabdomyosarcoma. *Cancer genetics and cytogenetics*, 1994, 78(2):214-8.

36. Braun MC, Cohn RA, Kletzel M. Nephrotic Syndrome Accompanying Familial Hemophagocytic Syndrome. *J of Ped Hem Onc*, 1996 18(2) 195-197

37. O'Reilly R, Cheung NK, Bowman L, Castle V, Hoffer F, Kapoor N, Kletzel M, Lindsey K, Shamberger R, Tubergen D. NCCN Pediatric Neuroblastoma Practice Guidelines. *Oncology* 1996, Vol 10(12) 1813-1822.

38. Hoover M, Kletzel M, Morgan ER. Prior Fungal Infection is not a contraindication to Bone Marrow Transplant in in-patients with Acute Leukemia. *Med Ped Onc*, 1997, 28:268-273 .

39. Katzenstein H, Morgan E, Olszewski M, Danner Koptik K, Kletzel M. Haploidentical Related Umbilical Cord Blood Stem Cell Transplant in a Child with Acute Non-Lymphoblastic Leukemia. *Bone Marrow Transplant* 1997 19,765-769.

40. Kletzel M, Haut P, Atlas M, Olszewski M, Danner Koptik K, Hubble M. Red cell Depletion Of Umbilical Cord Blood (UCB). Comparison Between Unmanipulated and Red Cell Depleted by Ficoll-Paque Density Gradient Separation After

Cryopreservation. *J of Hematotherapy* 1997 6; 269-272

41. Cohn L, Moss TJ, Hoover M, Katzenstein HM, Haut PR, Morgan ER, Green AA, Kletzel M. Treatment of Poor Risk Neuroblastoma Patients with High -dose Chemotherapy and Autologous Peripheral Stem Cell Rescue. *Bone Marrow Transpl* 1997 20, 543-551
42. Kletzel M, Abella EM, Sandler ES, Williams LL, Ogden AK, Pollock BH, Wall DA. Thio-tepa and Cyclophosphamide with Stem Cell Rescue as Consolidation Therapy for Children with High Risk Neuroblastoma. A Phase I/II Study of the Pediatric Blood and Bone Marrow Transplant Consortium. *J of Ped Hem Onc* 1998 20(1) 49-54.
43. Applegate GL, Kletzel M, E Morgan, Johnson P, Danner K, Marymount M. Outpatient Total Body Irradiation Prior To Bone Marrow Transplantation in Pediatric Patients: Feasibility Analysis. *Bone Marrow Transpl* 1998 21: 651-652.
44. Kletzel M, Morgan E, Frader J. Ethical Issues in Stem Cell Transplantation. *J of Hematotherapy* 1998 Vol 7, (3) 197-203.
45. Haut PR, Cohn S, Morgan E, Hubbell M, Danner-Koptik K, Olsewski M, Kletzel M. Efficacy of Autologous Peripheral Stem Cell (PBSC) Harvesting and Engraftment Following Ablative Chemotherapy in Pediatric Patients. *Biology of Blood and Marrow trans* 1998 4: 38-42.
46. Kletzel M, Longino R, Rademaker AW, Danner-Koptik KE, Olszewski M, Morgan ER. Peripheral Blood Stem Cell Transplantation in Young Children: Experience with Harvesting, Mobilization and Engraftment. *Pediatr Transplantation* 1998;2; 191-196.
47. Pirich L, Haut P, Morgan E, Marymount MA, Kletzel M. Total Body Irradiation, Cyclophosphamide and Etoposide with Stem Cell Transplant as Treatment for Infant Acute Lymphocytic Leukemia. *Med Ped Onc* 1999 32:1-6
48. Scholl PR, O'Gorman MRG, Pachman LM, Haut P, Kletzel M. Correction of Neutropenia and Hypogammaglobulinemia in X linked Hyper IGM Syndrome by Allogeneic Bone Marrow Transplantation. *Bone Marrow Transp* 1998 22, 1215-1218.
49. Perel Y, Conway J, Kletzel M, Goldman J, Weiss S, Feyler A, Cohn SL. Clinical Impact and Prognostic Value of Metaiodobenzylguanidine Imaging in Children with Metastatic Neuroblastoma. *J Pediatr Hem Onc* 1999 21(1) 13-18.
50. Laver JH, Klann R, Kletzel M, Moss TJ, Mageed AA, Willingham M, Gross AJ, Kemhead J. Comparison of the Presence of Tumor Cells In Purged Marrow Versus Peripheral Blood In Stem Cell Grafts in Neuroblastoma. *Cancer Research* 1999 59: 1215-1218.

Control 1999. Vol 9 pp25-30

51. Walterhouse DO, Hoover ML, Marymount MA, Kletzel M. High Dose Chemotherapy Followed by Peripheral Blood Stem Cell Rescue for Metastatic Rhabdomyosarcoma: The Experience at Children's Memorial Hospital. *Med Ped Onc* 1999 32 88-92
52. Flores-Stadfler EM, Gonzalez-Crussi F, Greene M, Thangavelu M, Kletzel M, Chou PM. Indeterminate-Cell Histiocytosis: Immunophenotypic and Cytogenetic Findings in an infant *MedPediatr Oncol* 1999 32:250-254
53. Kletzel M, Olszewski M, Danner-Koptik K, Coyne K, Haut PR. Red cell salvage and re-infusion in pediatric bone marrow donors. *Bone Marrow Transp* 1999 24 pp 385-388.
54. Kletzel M, Haut PR, Olszewski M, Figuerres E. Analysis of Parameters Affecting Engraftment in Children Undergoing Allogeneic Bone marrow Transplants. *1999 Cytotherapy Vol 1 (5) 417-422.*
55. PanWJ, Haut PR, Olszewski M, Kletzel M. Two-day collection and pooling of Peripheral Blood Stem cells with a semiautomated density gradient cell separation. *J Hematho and Stem Cell Research* 1999 8:561-564.
56. Shaw PH, Haut PR, Olszewski M, Kletzel M, Hematopoietic Stem Cell Transplantation Using Unrelated Cord Blood versus Matched sibling Marrow in Pediatric Bone marrow failure Syndromes: One centers Experience. *Pediatr transplantation* 1999 3:315-321.
57. Figuerres E., Haut PR, Olszewski M, Kletzel M Analysis of Parameters Affecting Engraftment in Children Undergoing Autologous Peripheral Blood Stem Cell Transplants. *Bone Marrow Transpl* 2000 25 (6), 583-588
58. Levine JE, Wiley J, Kletzel M, Yanik G, Hutchinson RJ, Neudorf S. Cytokine Mobilized Allogeneic Peripheral Blood Stem Cell Transplants in Children Result in Rapid Engraftment and High Incidence of Graft vs. Host Disease. *Bone Marrow Transp* 2000 25(1), 13-18
59. Kletzel M, Meitar D, El -Yousef M, Cohn SL. Gastrointestinal Relapse in an Adolescent with Acute Lymphoblastic Leukemia. Mimicking acute Graft vs. Host Disease following an HLA- Matched Sibling Hematopoietic Stem Cell Transplant. *Med And Ped Hem Onc* 2000 34:287-289.
60. Yu LC, Wall DA, Chan KW, Grayson G, Kletzel M. Unrelated Cord Bloods Transplant Experience by The Pediatric Blood and Marrow Consortium 2001 *Ped Hematology and Oncology* 18:235-245

61. Shaw PH, Cohn SL, Morgan ER, Kovarik P, Haut PR, Kletzel M, Murphy SB Natural Killer Cell Lymphoma: Report of Two Pediatric Cases, Therapeutic options and Review of the Literature. 2001 *CANCER* vol 91(4) pp 642-646.
62. Shaw P, Mancini AJ, McConnell JP, Brown D, Kletzel M. Treatment of Congenital Erythropoietic Porphyria in Children with Allogeneic Stem Cell Transplantation: A case report and review of the Literature. *Bone Marrow transplantation* 2001 (27) 101-105
63. Figuerres E, Olszewski M, Kletzel M. A Flow Cytometric Technique to Detect Platelet Engraftment Following Pediatric Stem Cell Transplants Using Thiazole Orange. 2001 *Cytotherapy* vol3 (4) 277-283
64. Gonzalez-Ryan L, Haut P, R, Coyne K, Van Syckle K, Duerst R, Haro D, Kletzel M. Developing a Pediatric Outpatient Transplantation Program. The Children's Memorial Hospital Experience. 2001 *Frontiers in Bioscience* 6: 1-5
65. Haut PR, Kovarik P, Shaw PH, Walterhouse D, Jenson HB, Kletzel M. Detection of EBV DNA in the Cord Blood Donor for a Patient Developing Epstein-Barr Virus Associated Lymphoproliferative Disorder Following Mismatched Unrelated Umbilical Cord Blood Transplantation 2001 *Bone Marrow Transplantation* 27 pp 761-765
66. Shaw P, Olszewski M, M Kletzel Expansion of Megakaryocyte Precursors and Stem Cells from Umbilical Cord Blood CD34+ cells in Collagen and Liquid Culture Media 2001 *Hematotherapy and Stem Cell Research* .10(3) 391-403
67. Green DM, Breslow NE, Beckwith JB, Ritchey ML, Shamberger RC, Haase GM, D'Angio GJ, Perlman E, Donaldson M, Grundy PE, Weetman R, Coppes MJ, Malogolowkin M, Shearer P, Coccia P, Kletzel M, Thomas PRM, Macklis R, Tomlison G, Huff V. Treatment with nephrectomy only for small stage I favorable Histology Wilms Tumor. A Report From The National Wilms Tumor Study Group. 2001 *JCO* 19:3719-3724
68. Katzenstein HM, Rigsby C, Shaw PH, Mitchell T, Kletzel M. Novel Therapeutic Approaches in the treatment of Children with Hepatoblastoma. 2002 *J of Pediatric Hem Onc.*
69. Wang LJ, Chou P, Gonzalez -Ryan L, Haut PR, Huang W, Kletzel M. Evaluation of Mixed Chimerism in Pediatric patients with Leukemia after Allogeneic Stem Cell Transplantation by PCR Quantitative Analysis of Variable Number Tandem Repeat and Testis Determination Gene. 2002 *Bone Marrow Transplantation* 29(1); 51-
70. Kletzel M, Katzenstein HM, Haut PR, Yu AL, Morgan E, Reynolds M, Geissler G, Marymount MH, Kalapurakal JA, Shore RM, Bardo DME, Schmoldt J,

Rademaker AW and Cohn SL. Treatment of High Risk Neuroblastoma With Triple Tandem High Dose Therapy and Stem Cell Rescue: Results of The Chicago Pilot II Study. 2002 JCO20:2284-2292

71. Kletzel M, Olzewski M, Huang W, Chou PM Utility of WT1 as a Reliable Toll for the Detection of Minimal Residual Disease in Children with Leukemia. 2002 Pediatric And Developmental Pathology 5,269-275

72. Venkateswaran L, Duerst R, Haut PR, Chou PM, Kletzel M. Letter to the Editor Bone marrow Necrosis Associated with Acute Myelogenous Leukemia following Stem Cell Transplantation. 2002 Med and Ped Oncol 38: 148-149

73. Haut PR, Gonzalez-Ryan L, Wang Lj, Olszewski M, Morgan E, Kletzel M. Induction of Graft vs. Leukemia Effect Following Unrelated Cord Blood Transplantation: Proof of Principle 2002 Ped Transplant 6:348-351

74. Warwik AB, Zhang MJ, Shuster JJ, Horowitz MM, Camita BM, et al. Chemotherapy vs HLA identical Sibling Bone Marrow Transplantation (BMT) For Higher Risk Childhood Acute Lymphoblastic Leukemia (ALL) in First Remission. 2002 Blood Accepted for publication.

75. Katzenstein HM, Kletzel M, Reynolds M, Superina R, Gonzalez Crussi F. Letter to the editor: metastatic Malignant Rhabdoid Tumor Of The Liver Treated With Tandem High Dose Therapy and Autologous Peripheral Blood stem Cell Rescue. 2003 Med Pediatr Oncol 40;199-201

76. Hoepfner Sabine, Haut PR, O’Gorman M, Kletzel M. Rapid Immune Reconstitution Following Autologous Stem Cell Transplantation in Children: A Single Institution Experience. 2003 Bone Marrow Transplantation 31(4) 285-290

77. Chou P, Olszewski M, Huang W, Silva M, Kletzel M. Platelet Chimerism by Polymerase Chain Reaction (PCR) Utilizing variable Number Of Tandem Repeats (VNTRs) in Allogeneic Stem Cell Transplant in Children: A novel approach to Full Chimerism Analysis. 2003 Bone Marrow transplantation 32 (8),825-828

78. Murphy SB, Morgan ER, Katzenstein HM, Kletzel M. results of little or no treatment for Lymphocyte predominant Hodgkin’s Disease in Children and adolescents.2003 J Pedtr Hematology Oncology 25(9); 684-687

79. Jacobsohn D, Schechter T, Thorman K, Duerst R, Kletzel M. Eosinophilia is a Predictor for the Development of Chronic GVHD in Children. 2004 Transplantation Vol 77(7) pp 1096-1100.

80. Jacobsohn DA, Karan ME, , Scholl PR, Melin-Aldana H, O’Gorman MRG Duerst R, , Kletzel M. Non-Myeloablative Hematopoietic Stem Cell Transplant for

X-Linked Hyper Immunoglobulin M syndrome with Cholangiopathy. 2004 Pediatrics Vol 113(2) 122-127

81. Jacobsohn D, Duerst R, Tse W, Kletzel M. Reduced Intensity Hematopoietic Stem Cell Transplantation for Treatment Of Non-Malignant Diseases in Children 2004 Lancet Vol 364 pp156-162
82. Campbell AD, Morgan E, Reynolds M, Seshadri R, Geissler G, Cohn SL, Marymount M, Kalapurakal J, Haut PR, Duerst R, Kletzel M. Autologous Peripheral Stem Cell Rescue for Children with Relapsed Wilms Tumor: The Children's Memorial Experience. 2004 JCO Vol 22 (14) 2885-2890
83. Coquillard g, Lau M, Kletzel M, Rodriguez-Marino SG. Identification of two novel Pseudogenes, HLA-COQ and HLA- DEL, With Sequence Homology to Human and Other Primate MHC Class I A: Ancestral Haplotype in the Philipino Population. 2004 Human Immunol 65 pp 665-673
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BOOK CHAPTERS

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ONGOING RESEARCH PROJECTS

1. Chicago Pilot #2 Multiagent Chemotherapy For Induction, Followed By In Vivo Purging With GD2 Chimeric Monoclonal Antibody And Stem Cell Rescue After High Dose Chemotherapy X3
2. Peripheral Blood Stem Cells For Autologous Bone Marrow In Children. P.I. Morris Kletzel, M.D.
3. Allogeneic Bone Marrow Transplantation For Hematopoietic Diseases. Phase III Trial.
4. Use of Autologous Peripheral Blood CD34+ Progenitor Cells For Bone Marrow Reconstitution After High Dose Chemotherapy In Childhood Malignancies.
5. Detection Of Neuroblastoma Tumor Cells In Peripheral Blood Stem Cells, Using A RT-PCR To Tyrosine Hydroxylase A POG Supported Research.
6. Tandem Stem Cell Rescues For Children With Recurrent Brain Tumors. In House Protocol Co PI Morris Kletzel.
7. WT1 Gene By RT-PCR As A Marker For Minimal Residual Disease In Leukemia. Evaluation For Its Use In Allogeneic Stem Cell Transplantation. P.I. Morris Kletzel.
8. Dendritic Cell Vaccines For Patients With Neuroblastoma
9. Characterization and differentiation of Mesenchymal Stem Cells.

EXTRAMURAL RESEARCH SUPPORT

1 Principal Investigator: Morris Kletzel, M.D.
Title: Arkansas Hemophilia Diagnostic and Treatment Center
Agency: Bureau of Health Care Delivery and Assistance MCH.
Starting Date: 10/1/85
Ending Date: 9/30/93
Total Budget: 307,689
Funding: Funded

2 Principal Investigator: D. H. Berry, M.D.; Morris Kletzel, Co P.I.
Title: Pediatric Oncology Group
Agency: National Cancer Institute
Starting Date: 1/1/86
Ending Date: 12/31/90
Total Budget: 52,461
Funding: Funded

3 Principal Investigator: Morris Kletzel, M.D.
Title: A Placebo Controlled Trial to Evaluate AZT in HIV Positive Hemophilia Patients
Agency: NIF, NIAI (NIH)
Starting Date: 12/1/87
Ending Date: 11/30/89
Total Budget: 804,357
Funding: Funded

4 Principal Investigator: Morris Kletzel, M.D.
Title: Study of the Pharmacokinetics of High Dose Thio Tapa in Children with Solid Tumors
Agency: Lederle Laboratories
Starting Date: 6/1/88
Ending Date: 6/1/89
Total Budget: 4,000
Funding: Funded

5 Principal Investigator: Eileen Ellis, M.D., Co PI, Morris Kletzel, M.D.
Title: Prophylactic Use of IVIG Gammagard in Renal and Bone Marrow Transplant Patients
Agency: Travenol Laboratories
Starting Date: 6/1/87
Ending Date:
Total Budget: 1,200 per patient registered
Funding: Funded

6 Principal Investigator: Morris Kletzel, M.D.
Title: Hemophilia Patient Education for Home Therapy
Agency: Caremark
Starting Date: 4/15/90
Ending Date: 4/15/91
Total Budget: 23,000
Funding: Funded

7 Principal Investigator: Morris Kletzel, M.D.

Title: Immunoglobulin Prophylaxis in Children undergoing Bone Marrow Transplantation
Agency: Sandoz
Starting Date: 11/1/90
Ending Date: 11/1/92
Total Budget: 40,000
Funding: Funded

8 Principal Investigator: Engel Doug PhD, CoPI Morris Kletzel
Title: Center of Excellence in Molecular Hematology Feasibility Study.
Agency: NIH
Starting Date: 1/9/93
Ending Date: 8/31/93
Total Budget: 19,358
Funding: (not funded)

9 Principal Investigator: Morris Kletzel, M.D.
Title: Pediatric Oncology Group
Agency: NIH 5 U10 CA07431-34
Starting Date: 1/1/94
Ending Date: 12/31/95
Total Budget: 109,000
Funding: Funded

10 Principal Investigator: Morris Kletzel, M.D.
Title: Pediatric Oncology Group
Agency: NIH 5 U10 CA07431-34
Starting Date: 1/1/96
Ending Date: 12/31/2001
Total Budget: 113,000
Funding: Funded

11 Principal Investigator: Redd William PhD. Co-Investigator: Morris Kletzel, M.D.
Title: Maternal Distress, Cognitive Processing & Pediatric BMT
Agency: NIH 01RO1MH57738
Starting Date: 12/01/97
Ending Date: 11/30/2002
Total Budget: 2,386,782
Funding: Funded

12 Principal Investigator: Morris Kletzel M.D.
Title: The use of Tyrosine Hydroxylase RT-PCR to detect Neuroblastoma Tumor cells in Peripheral Blood Stem cells in Children.
Agency: POG (NIH)
Starting Date: 7/1/97

Ending Date: 7/1/99
Total Budget 39,411
Funding: Funded

13 Principal Investigator: Donna Dimichele, collaborator Morris Kletzel M.D.

Title: Altered coagulation in Pediatric Stem Cell Transplant

Agency: NIH PA-96-040

Starting date: 7/1/98

Ending date: 6/30/2000

Total Budget: 149 000. Institutional CMH \$10 000

Funding: Funded

14 Principal Investigator: Morris Kletzel M.D.

Title: Pediatric Oncology Group

Agency: NIH 5U10 CA07431-34

Starting date: 1/1/95

Ending date: 12/31/2000

Total Budget: \$89,000

Funding: Funded.

15 Principal Investigator: Morris Kletzel M.D.

Title: Detection of Minimal Residual Disease (MRD) in patients with leukemia who undergo a Bone Marrow Transplant (BMT) using the Wilms tumor suppressor gene 1 (WT1) as a marker by RT-PCR.

Agency: American Cancer Society

Starting date 7/1/2001.

Ending date: 6/30/2003

Total Budget: \$199,905

Funding: not funded

16 Principal Investigator: Morris Kletzel M.D.

Title: Mesenchymal cell identification, characterization, expansion and cell differentiation in umbilical cord blood.

Agency: The Muriel Newman Foundation.

Starting date 1/1/02

Ending date 1/1/06

Total Budget: \$500 000

Funding: Funded

17 Principal Institutional Investigator: Morris Kletzel M.D.

Title: Pediatric Blood and Marrow Consortium Clinical Transplant Network (CTN)

Agency: NIH Grant # 1 UO1 HL69254-01

Starting date 7/12/02
Ending date 12/31/06
Total Budget: per patient enrolled
Funding: Funded

18 Principal Investigator: Morris Kletzel M.D.
Title: A Phase II/III Randomized placebo-Controlled, Double blind Study of Allogen- Adult Universal Cell TM in Recipients of Unrelated Donor Umbilical Cord Blood Hematopoietic Cell Transplantation.
Agency: Osiris Laboratory
Starting date 8/1/02
Ending date 8/1/06
Total Budget: \$ 52 400.00
Funding: Funded

19 Principal Investigator: Morris Kletzel M.D.
Title: Beta-Globin Transcriptional regulation.
Agency: Northwestern University/ NIH sub-contract 3RO1 HL24415-23S1 sub award # 0600 300 D318 380
CMIER # 2000-235N
Starting date 2-1-2002
Ending date:3-31-02
Amount awarded: \$12 972.00
Funding: Funded

20 Principal investigator: Morris Kletzel M.D.
Title: Cytokine gene polymorphisms in Pediatric Patients Receiving Tacrolimus or Cyclosporin for Graft Vs Host disease Prophylaxis (PBMTC GVHD 112).
Agency: North Shore University Hospital/ Fujisawa
CMIER # 2002-163N
IRB# 2002-11875
Starting Date: 10/01/02
Ending Date 09/30/03
Amount awarded: \$250.00 Per patient enrolled.
Funding: Funded

21 Principal Investigator: Morris Kletzel M.D.
Title: Development of a Tumor Vaccine with Dendritic Cells and RNA for Patients With Neuroblastoma.
Agency: Friends of Steven Foundation
Starting Date 1/2/02
Ending date:
Amount awarded: \$300 000.00
Funding: funded

22 Principal investigator: Reiner Storb M.D.

Institutional PI: Morris Kletzel M.D.

Title: program project HL36444 Project 1 Non-Myeloblastic Transplant for Non-malignant disorders

Agency: NIH Grant # HL36444

Starting Date:

Ending Date:

Amount awarded:

Funding: Funded

23 Principal investigator: Morris Kletzel M.D.

Title: Fellowship scholarship by the Washington Square Foundation

Agency: Washington Square Foundation

Starting Date: 7-1-03

Ending Date: indefinitely

Amount awarded: \$60 000.00

Funding: Funded

24 Principal investigator: Morris Kletzel M.D.

Title: Autologous Stem Cell Transplantation for Crohn's Disease

Agency: Washington Square Foundation.

Starting Date: 9-1-03

Ending Date: 9-1-04

Amount awarded: \$40 000.00

Funding: Funded

25 Principal investigator: Morris Kletzel M.D.

Title: Pharmacokinetics of Single daily dose of Busulfan in children.

Agency: ESP Pharma.

Starting Date: 9-1-03

Ending Date: 9-1-04

Amount awarded: \$40 000.00

Funding: Funded