

Pediatric Oncology

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Childhood Cancer Facts – USA

- > 12,400 children and adolescents are diagnosed with cancer per year
- One of every 500 young adults is a childhood cancer survivor
 - Nearly 2/3 of the survivors later experience significant and chronic medical problems or develop secondary cancers
- The causes of most pediatric cancers remain a mystery and cannot be prevented
- Leading cause of death by disease in children and adolescents
- 100% socioeconomic and psychosocial impact on the family

Childhood Cancer – USA

Childhood Cancer (USA): 0-14 years

Incidence: 17/100,000

Survival (%)

From: CA CANCER J CLIN 2013;63:11–30

Diagnosis	1975-1977	2002-2008
Acute Lymphocytic Leukemia	58	91
Acute Myeloid Leukemia	19	64
Bone and Joint	50	79
Brain/Central Nervous System	57	75
Hodgkin's Lymphoma	81	97
Non-Hodgkin's Lymphoma	43	85
Neuroblastoma	53	74
Soft Tissue	61	82
Wilms	73	90
Overall	58	83

■ Impact

- Sub Specialization
- Multidisciplinary Care
- Collaboration: Children's Oncology Group
 - ✓ Clinical Trials
 - ✓ Clinical Translational Research
 - ✓ Basic Research

■ Challenges

- Acute
 - ✓ Child
 - ✓ Family
- Late
 - ✓ Organ System
 - ✓ Neurological/ Learning Disabilities
 - ✓ Psychosocial
 - ✓ Second Cancers (10-fold risk)

What We Do....

Mission: Pediatric Oncology at UNM Health Science Center

To Decrease the Burden of Childhood Cancer in Children and Families of New Mexico through Clinical Service, Research and Education.



Clinical Services – Pediatric Hematology/Oncology

- The Only Tertiary Care Provider of Oncology Services for Infants, Children and Adolescents in New Mexico
- Multidisciplinary Team Approach in the Comprehensive Care of Patients (7 physicians, 2 practitioners, 9 nurses, 3 social workers, 2 pharmacists)
- Comprehensive Children's Hospital Environment
- UNM Cancer Center Services: Radiation Therapy, Orthopedic Oncology, Gynecologic Oncology
- Collaboration with UNM Cancer Center: Care of Young Adults

Clinical Services – Pediatric Hematology/Oncology

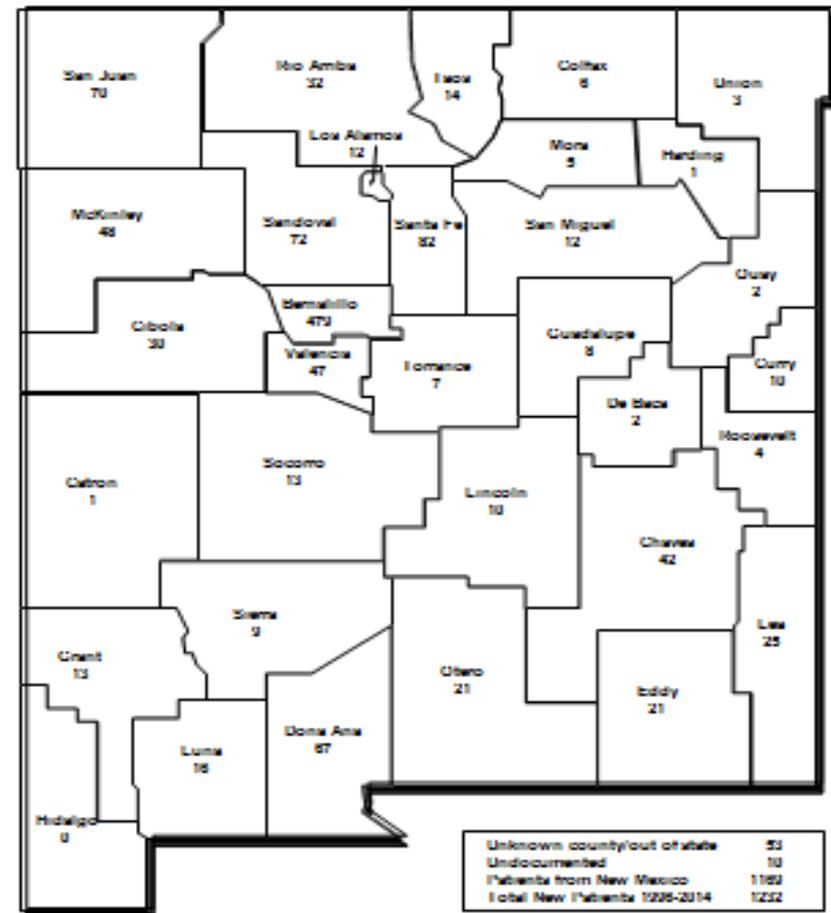
- Comprehensive Treatment Planning and Care
 - Weekly Patient Care Meetings
 - Biweekly Tumor Board Reviews
 - Weekly Radiology Conferences
 - Psychosocial Rounds

- Comprehensive Clinics/Programs
 - Post Bone Marrow Transplant Follow-up Clinic
 - Young Enduring Survivors (YES) Clinic
 - Mariposa

Pediatric Hematology/Oncology

- Referrals received from all parts of the state
- 175 referrals from 2010–2013

Pediatric Cancer
Cumulative Newly Diagnosed Patients
by County 1996-2014



Research – Pediatric Hematology/Oncology

- Nationally-Recognized Investigators
 - Dr. Boayue (PI COG-UNM); Dr. Heideman (Brain Tumors); Dr. Kuttesch (Brain Tumors, Chair, DSMC-Experimental Therapies; Dr. Winter (Leukemia Research)
- Children's Oncology Group - UNM
 - Over 90% of eligible patients enrolled on National Cancer Institute - approved therapeutic trials
 - Sixty-Five Open Research Studies (Therapy, Epidemiology, Biology, Registry)
 - Cancer Control Research Studies: Medication Adherence, Osteonecrosis, Kidney Function
 - Data Compliance: 100%
- Sponsored Research - UNM
 - Clinical Projects: 7
 - Laboratory-Based Projects: 3

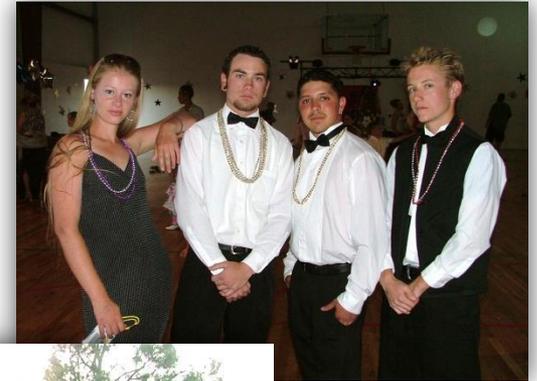
Clinical Trials – Pediatric Oncology

A comprehensive clinical trials team meets weekly to discuss enrollments and study issues. The current open study portfolio includes:

- 14 Biology Studies
- 35 Therapeutic Trials
- 15 Cancer Control, Epidemiology, Late Effects and Pharmacologic PK/PD Studies

Community Outreach and Survivor Programs, Methods to Enhance Clinical Trial Recruitments

- Adolescents and Young Adults
 - YES Clinic
- Camps for Children/Survivors
 - Camp Enchantment
 - Sibling Retreat
- Hospice Programs
 - Mariposa
- Off-site Teaching / Physician Outreach Programs
 - Community Education
 - Hospital Outreach
 - School Outreach



Education & Outreach – Pediatric Hematology/Oncology

- **Medical Student/Resident Education**
 - Clinical Rotations: 16 residents
 - Medical Student Lectures: 130
 - Tumor Boards, Radiology Rounds, Patient Care Conferences
 - Medical Student Teaching
 - Consistently Outstanding Teaching Scores
- **Professional Presentations**
- **Community Outreach**

Young Enduring Survivors Clinic (YES)

- Provides Multi-Disciplinary Follow-up for > 500 Survivors of Pediatric Malignancies
- Programs
 - Multi-disciplinary clinic for patients at least 2 years off therapy and cancer-free. Health assessment and screening. Risk assessment.
 - School Re-entry Program
 - Tobacco Use Screening and Cessation Program: Funded through a community grant
 - Young Adult Transition Program as patients become adults
 - Outreach: Education

UNM Mariposa Program Pediatric Hospice

"The dying child deserves always to be treated first as a child, and secondarily as a dying person."

- Kathleen W. Faulkner, Hospice Care for Children

- Mariposa is a team of highly-trained professionals offering the only Pediatric Palliative care and Hospice resource in New Mexico
- Mariposa offers comprehensive, compassionate care for infants, children and adolescents with life limiting conditions....*not just cancer!*
- Mariposa emphasizes quality of life rather than length of life
- Serves not only the child, but supports the entire family, including parents and siblings

Pediatric Oncology Summary

■ Clinical Service

- Pediatric Specialists/ Pediatric-focused
- Medium + -sized program
- Care of infants, children, adolescents (Young Adults)
- Continuum of care: Diagnosis to Survivorship
- Multidisciplinary care combining resources of a Comprehensive Children's Hospital and a comprehensive Cancer Center
- Mariposa

■ Research

- Clinical Research: outstanding recruitment and conduct of clinical trials
- National leadership in clinical research /nationally recognized investigators
- Laboratory research: T-cell malignancies
- Mentoring of residents and medical students

■ Education

- Mentoring and Teaching: Residency and Medical Student
- Consultation and co-ordination of care

■ Program Development

- Adolescent and Young Adult Program: (leukemia, lymphoma, sarcoma & gynecologic Ca)

Pediatric Hematology/Oncology

Budget 2013-2014

	Amount (\$)	Total (%)
Revenues:		
Tobacco Settlement Fund Allocation	261,400	9.0
General Fund Appropriation	1,303,400	45.1
Overall Total Revenues	2,889,924	
Expenses		
Total Compensation	2,504,669	87.2
Non-Salary Costs	370,335	12.8
Total Expenses	2,875,004	
Net Revenue	14,920	0.5
		(As of June 30, 2014)

- *Supports our mission to deliver outstanding care to the Children of New Mexico*
- *Supports access to the best therapies available in the world to improve outcomes*
- *Supports survivorship, education and outreach*
- *To give the best care to the Children of New Mexico*

Questions?