

# Pediatric Oncology

## TSROC Report

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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

# 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.*



# Pediatric Oncology

## Tobacco Settlement Funding

- ▶ FY16
  - \$261,400 (18%)
    - *Supports our mission to deliver outstanding care to the Children of New Mexico*
- ▶ FY17
  - \$250,000 (16.6%)
    - *Supports access to the best therapies available in the world to improve outcomes*
- ▶ FY18 (request)
  - \$250,000
    - *Supports survivorship, education and outreach*
    - *To give the best care to the Children of New Mexico*

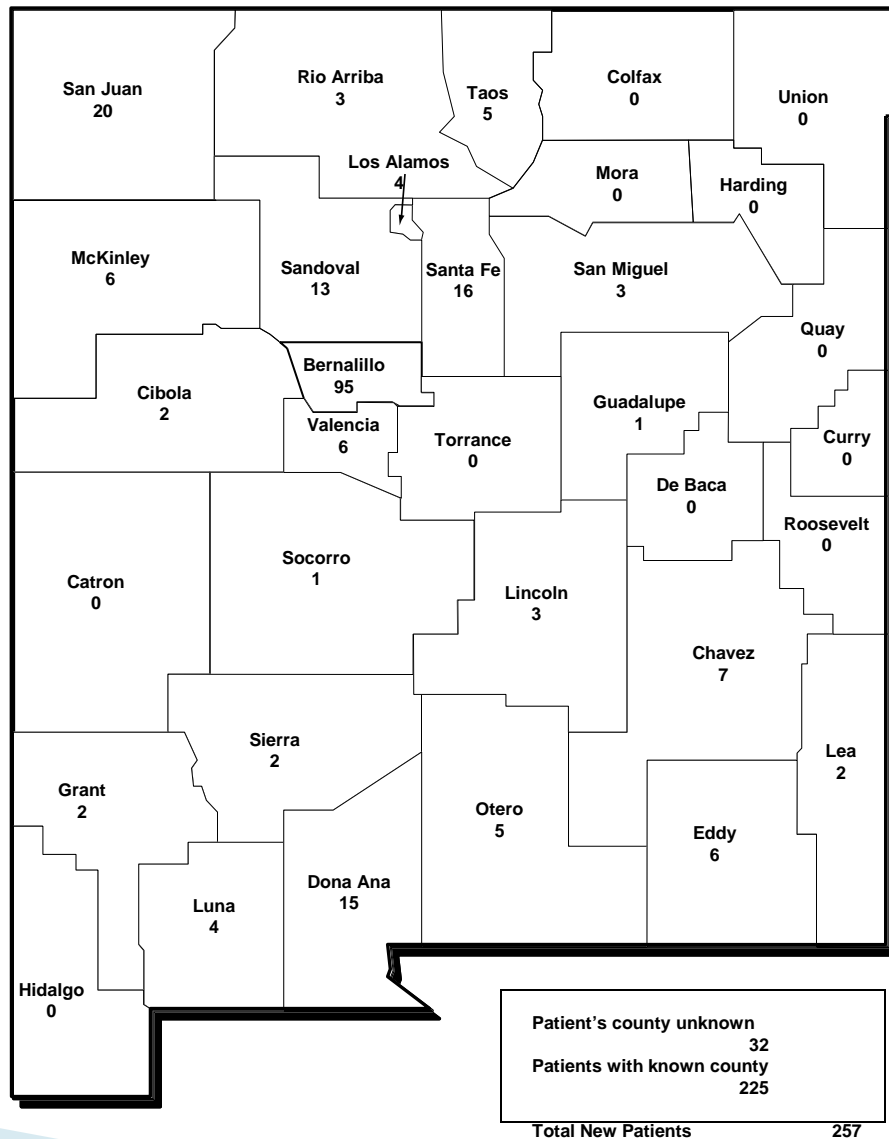
# Clinical Services – Pediatric Hematology/Oncology

- The Only Tertiary Care Provider of Comprehensive Oncology Services for Infants, Children and Adolescents in New Mexico
- Multidisciplinary Team Approach in the Comprehensive Care of Patients (7 physicians, 3 practitioners, 9 nurses, 2 social workers)
- 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
  - Biweekly Teleconference with Children’s Hospital of Colorado : review of BMT patients
  
- Comprehensive Clinics/Programs
  - Young Enduring Survivors (YES) Clinic
  - Vascular- Lymphatic Malformation Program
  - Mariposa

**APPENDIX II  
Pediatric Oncology  
Newly Diagnosed Patients by County  
Fiscal Year 2015**



# Pediatric Oncology Programs

- ▶ Survivorship ( > 600 patients)
  - 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



# Pediatric Oncology Programs

## ▶ Mariposa

*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!*
- Serves not only the child, but supports the entire family, including parents and siblings

# Research

## COG Clinical Trials – Pediatric Oncology

Over 90% of eligible patients enrolled on National Cancer Institute - approved therapeutic trials

The current open study portfolio includes:

- 40 Therapeutic Trials
- 10 Biology Studies
- 15 Cancer Control, Epidemiology, Late Effects and Pharmacologic PK/PD Studies
  - Cancer Control Research Studies: Medication Adherence, Osteonecrosis, Kidney Function
  - Data Compliance: 100%

# Research – Pediatric Hematology/Oncology

## ▶ Nationally Recognized Investigators

### ◦ Dr. John F. Kuttesch

- Pediatric Neuro-Oncology
- Novel Drug Trials
- COG DSMC-B Chair



### ◦ Dr. Stuart Winter

- Leukemia Research
- Novel Leukemia Clinical Trials

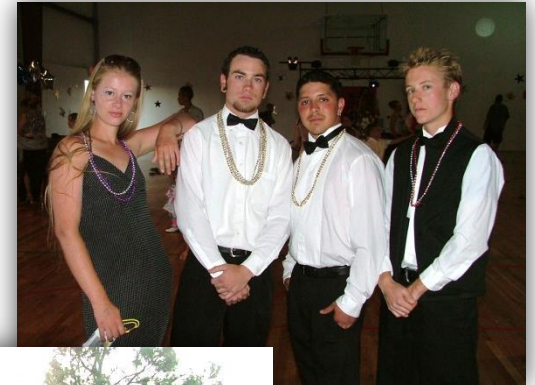


# Education & Outreach – Pediatric Hematology/Oncology

- **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**
- **Outreach**

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

- Camp Enchantment
  - “In Kind” support for medical care and counseling
- Outreach Programs
  - Community Education
  - School Outreach



# FY2016 Highlights

# Clinical

- ◆ Over 450 Active Patients and 4900 clinic and Inpatient visits in last fiscal year
- ◆ Referrals received from all parts of the state
- ◆ 257 new patients from 2011–2016

# Research

## Precision Medicine: Childhood Leukemia



PROTOCOL NUMBER: INST 1306  
GENOME SEQUENCING OF HUMAN CANCER  
TISSUES



PROTOCOL NUMBER: INST UNM 1503  
ACUTE LYMPHOBLASTIC LEUKEMIA THERAPIES  
INFORMED BY GENOMIC ANALYSES



# Clinical

- ▶ Access to COG trials of novel drugs (limited institution)
  - Phase 2 Study of the JAK1 /JAK2 Inhibitor Ruxolitinib With Chemotherapy in Children With De Novo High-Risk CRLF2-Rearranged and/or JAK Pathway-Mutant Acute Lymphoblastic Leukemia
  - Risk-Stratified Randomized Phase III Testing of Blinatumomab (IND# 117467, NSC#765986) in First Relapse of Childhood B-Lymphoblastic Leukemia (B-ALL)

# FY17– FY18

## Program Development

### Adolescent Young Adult Program

- Major Gap in care and outcomes
- Challenges to accessibility

### Cellular Therapies / BMT

- Feasibility assessments
- Combined with UNMCC Program in Adults

### ▶ Pediatric Brain Tumor Program

- UNMCCC Brain Tumor Program
- Pediatric Neurosurgeon 8/1/2016

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# Questions?