

Chitti R. Moorthy, M.D.

Department of Radiation Medicine

ACADEMIC ACTIVITIES (Recent)

Date: November 4, 2022

I. TEACHING: (Residents, Medical Students, Fellows and Other Health Care Professionals) (Including lectures and research projects)

II. SCHOLARLY ACTIVITIES (RESEARCH): Protocols / Clinical Trials)

A. Children's Oncology Group (COG)

- i. **Principal Investigator:** Non-Invasive Image Guided Stereotactic Radio-Ablation for Cardiac Arrhythmias. (NYMC Protocol # DRM-CARD-2019-1)
- ii. **Co-Investigator:** "Reducing the Burden of Oncologic Chemoradiotherapy And Radiation Exposure from Diagnostic Imaging by Utilizing Targeted Immunotherapy in Children, Adolescents and Young Adults with Lymphoma (RADICAL)"
- iii. **Professional Participant:** A Phase 3 Trial Investigating Blinatumomab (IND# 117467, NSC# 765986) in Combination with Chemotherapy in Patients with Newly Diagnosed Standard Risk or Down syndrome B-Lymphoblastic Leukemia (B-ALL) and the Treatment of Patients with Localized B-Lymphoblastic Lymphoma (B-LLy) : AALL1731, L-14,004;
- iv. **Professional Participant :** A Phase 3 Randomized Trial of Inotuzumab Ozogamicin (IND#:133494, NSC#: 772518) for Newly Diagnosed High-Risk B-ALL; Risk-Adapted Post-Induction Therapy for High-Risk B-ALL, Mixed Phenotype Acute Leukemia, and Disseminated B-LLy; AALL1732L-14,090;
- v. **Professional Participant :** A 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 ; AALL1521 , L-12,012.
- vi. **Professional Participant:** International Phase 3 Trial in Philadelphia Chromosome-Positive Acute Lymphoblastic Leukemia Ph+ ALL Testing Imatinib in Combination with Two Different Cytotoxic Chemotherapy Backbones; AALL1631; L-14,625;
- vii. **Professional Participant:** "ANBL 1531:
A Phase 3 Study of 131I Metaiodobenzylguanidine (131I-MIBG) or Crizotinib Added to Intensive Therapy for Children with Newly Diagnosed High - Risk Neuroblastoma (NBL) (IND# 134379);

B. NYMC Protocols

- i. **Co-Investigator:** "Haplo-Identical Transplantation in patients with Sickle Cell Disease (SCD)". A Clinical Trail (NYMC 526 and 771) :
- ii. **Co-Investigator: NYMC 568:** A Pilot Study of Risk Adapted Therapy Utilizing Upfront Brentuximab with Combination Chemotherapy in the treatment of Children , Adolescents and Young Adults with Newly Diagnosed Hodgkins Lymphoma
- iii. **Co-Investigator: NYMC 588:** "Allogeneic Stem Cell Transplantation for Malignant and Non-Malignant Hematologic Diseases Utilizing Alpha / Beta T Cell and CD19+B Cell depletion.
- iv. A Pediatric Ohio-New York Center (Peds ONCImmunotherapy Center) Clinical Trial

(Professional Participant)

- v. **CHNY- 06-532**Clofarabine in combination with Cytarabine and Total Body Irradiation followed by Stem Cell Transplantation in Children with Acute Lymphoblastic Leukemia and Acute Non-Lymphoblastic Leukemia **(Professional Participant)**
- vi. **Co- Investigator: NYMC 571:** A Phase II Clinical Trial: Familial Haploidentical Stem Cell Transplant in Children and Adolescents With High-Risk Sickle Cell Disease: NYMC 571

III. PUBLICATIONS

1. Mitchell S. Cairo MD, Julie-An Talano MD, Allen Dozor MD, ... Deborah Friedman MD... Chitti R. Moorthy, M.D.....: “ Familial Haploidentical Stem Cell Transplantation in Patients with Sickle Cell Disease. In JAMA Pediatr, 2020 Feb 1; 174(2): 195-197
2. Jessica C. Hochberg MD, Jaclyn Basso RN, MSN, PNP,, Quihu Shih PhD., Allyson Flowers MD, **Chitti R. Moorthy MD**, Humayun Islam MD, Perry Gerard MD, Stephan Voss MD Phd., and Mitchell S. Cairo, MD. : “ Risk-Adapted Chemoimmunotherapy Utilizing Brentuximab and Rituximab in Children, Adolescents and Adults with Newly Diagnosed Hodgkin’s Lymphoma. J Immunother Cancer. 2022; 10(5)
3. Jordan Miller MD, Deborah Friedman MD, ...**Chitti R. Moorthy MD**,.....Mitchell Cairo, MD.: “ Stable to Improved Cardiac and Pulmonary Function in Children with High Risk Sickle Cell Disease Following Haploidentical Stem Cell Transplantation.” : - Bone Marrow Transplantation volume 56, pages2221–2230 (May 2021)
4. Mitchell Cairo, MD , Susan K Parsons, MD MRP , Suzanne Braniecki, PhD , Julie-An Talano, MD , Theodore B Moore, MD , Qiuhu Shi, PhD , Carolyn A. Keever-Taylor, DPhil , Rona Singer Weinberg, PhD , Brenda J. Grossman, MD , Allen J Dozor, MD , Deborah Friedman, MD ,, Robert C McKinstry, MD PhD , James Verbsky , **Chitti R Moorthy, MD** ,, et al. : “Significantly Improved Long Term Health Related Quality of Life (HRQL) and Neurocognition Following Familial Haploidentical Stem Cell Transplantation (HISCT) Utilizing CD34 Enrichment and Mononuclear (CD3) Addback in High Risk Patients with Sickle Cell Disease (SCD)” In Blood (2018) 132 (Supplement 1): 162.

IV. ABSTRACTS

1. Oluwandara N; Castaldi M; **Moorthy CR**: “Intra-Operative Radiation Therapy (IORT)” .: 16th Annual Luis R.M. Delguercio Professorship and Research Day Awards (Dec 20, 2020).
2. Sara Matsumoto MD, Taryn Boucher B.A., Geena George M.P.H., **Moorthy CR MD**, and Maria Castaldi MD. “ Intraoperative Radiation Therapy (IORT): A Tool in the Management of Early Breast Cancer”. : ACS Clinical Congress October 2020.
3. Jordan Miller MD, Deborah Friedman MD, ...Chitti R. Moorthy MD,.....Mitchell Cairo, MD.: “ Stable to Improved Cardiac and Pulmonary Function in Children with High Risk Sickle Cell Disease Following Haploidentical Stem Cell Transplantation.” : American Society Transplantation and Cellular Therapy 2021 Meeting.

V. PRESENTATIONS

1. Jessica C. Hochberg MD, Jaclyn Bass RN, MSN PNP, Qiuhi Shi PhD, ... Allyson Flower MD... **Chitti R. Moorthy**, MD...and Mitchell S. Cairo, MD.: “ Risk Adapted Chemo-immuno-therapy Utilizing Brentuximab, Vedotin and Riruximab in Children, Adolescents and Young Adults with Newly Diagnosed Hodgkin Lymphoma.: Presented at the American Society of Hematology (ASH) Annual Meeting, December 2019, Orlando, Florida.
2. Oluwandara N; Castaldi M; **Moorthy CR**: “Intra-Operative Radiation Therapy (IORT)” .: 16th Annual Luis R.M. Delguercio Professorship and Research Day Awards (Dec 20, 2020). **Won Best Poster award for the presentation.**
3. Sara Matsumoto MD, Taryn Boucher B.A., Geena George M.P.H., **Moorthy CR** MD, and Maria Castaldi MD. “ Intraoperative Radiation Therapy (IORT): A Tool in the Management of Early Breast Cancer” . : ACS Clinical Congress October 2020.
4. Jordan Miller MD, Deborah Friedman MD, ...Chitti R. Moorthy MD,.....Mitchell Cairo, MD.: “ Stable to Improved Cardiac and Pulmonary Function in Children with High Risk Sickle Cell Disease Following Haploidentical Stem Cell Transplantation.” : American Society of Transplantation and Cellular Therapy 2021 Meeting.

VI. Grand Rounds and Other

1. Medicine Noon Conference March 10, 2022
2. Medicine Grand Rounds presentation on 5/18/2022
3. Gynecologic Oncology: 3rd annual educational retreat October 6, 2022: External Beam Radiation for Gynecological Malignancies
4. Gynecologic Oncology: 3rd annual educational retreat October 6, 2022: Intra cavitory and Interstitial Brachytherapy for Gynecological Malignancies