

## BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.  
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NAME Chi, Carolyn Haekyung	POSITION TITLE Assistant Professor of Pediatrics		
eRA COMMONS USER NAME (credential, e.g., agency login) chchi1			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Rice University, Houston, TX	B.A.	1993-1997	Biology and Sociology
Stanford Univ. School of Medicine, Stanford, CA	M.D.	1997-2001	Medicine
Baylor College of Medicine, Houston, TX	CAQ	2009-2010	Clinical Investigation

### A. Personal statement

The primary goals of this proposed research are to investigate the effects of alkylating chemotherapy on ovarian reserve, as measured by serum anti-mullerian hormone (AMH) concentration, in premenarchal girls with high-risk acute lymphoblastic leukemia (ALL) and to correlate AMH concentration to adverse outcomes including bone mineralization defects and genetic polymorphisms. Specifically, we prospectively evaluate changes in AMH concentration across a two-year period in the high-risk ALL population. Results from this proposal will provide the framework to develop interventional strategies in premenarchal cancer patients to preserve their reproductive potential.

### B. Positions and Honors

#### Positions and Employment

2001-2004 Medical Residency, Pediatrics, Stanford Medical Center-Lucille Packard Children's Hospital  
2004-2007 Fellow in Pediatrics, Endocrinology and Diabetes, Stanford Medical Center-LPCH  
2006-2008 Pediatric hospitalist, Lucile Packard Children's Hospital, Stanford, CA  
2009-present Assistant Professor of Pediatrics, Baylor College of Medicine, Houston, TX

#### Other Experience and Professional Memberships

2001-present Member, American Academy of Pediatrics  
2004-present Member, Endocrine Society  
2007-present Member, Lawson Wilkins Pediatric Endocrine Society  
2009-present Member, American Society of Reproductive Medicine

#### Honors

1993 Presidential Scholar, Missouri  
1994 Walter Hall Prize for Sociology, Rice University  
1997 Clark R. Read Award for Excellence in Biology, Rice University  
1997 Phi Beta Kappa  
1998 Genentech Scholar (Stanford University School of Medicine)  
2005 Lawson Wilkins Pediatric Endocrine Society travel award  
2006 Harmon Fellow (Stanford University)

### C. Selected peer-reviewed publications (in chronological order)

1. Chi MS, Vader Tuig JG, **Chi CH**, Norman A, Chapman L, Blanks T. Effects of Norepinephrine Infusion and Exercise on Blood Pressure in Rats. Proc Soc Exp Biol Med. 1997;215(2):174-8. PMID: 9160045

2. Badaru A, Wilson DM, Bachrach LK, Fechner P, Gandrud LM, Durham E, Wintergerst K, **Chi C**, Klein KO, Neely EK. Sequential comparisons of one-month and three month-depot leuprolide regimens in central precocious puberty. *J Clin Endocrinol Metab* 2006; 91:5:1862-7. PMID: 16449344
3. **Chi CH**, Wang Y, Wilson DM, Robinson TN. Definition of metabolic syndrome in preadolescent girls. *Journal of Pediatrics* 2006; 148:6:788-792. PMID: 16769388
4. **Chi C**, Lee HC, Neely EK. Ambiguous genitalia in the newborn. *Neoreviews* 2008;9:78-84.
5. Glaser NS and Styne DM for the Organization of Pediatric Endocrinologists of Northern California Collaborative Graves' Disease Study Group (**Chi C**). Predicting the likelihood of remission in children with Graves' disease: a prospective, multicenter study. *Pediatrics* 2008; 121:e481-488. PMID: 18267979
6. Fuld K, **Chi C**, Neely EK. A randomized trial of 1- and 3-month depot leuprolide doses in the treatment of central precocious puberty. *J Pediatr*. 2011 Dec;159(6):982-7. PMID: 21798557
7. **Chi CH**, Durham E, Neely EK. Pharmacodynamics of aqueous leuprolide acetate stimulation testing in girls: correlation between clinical diagnosis and time of peak luteinizing hormone level. *J Pediatr* 2012 Oct;161(4):757-759. PMID: 2280966

#### **Posters/Abstracts (given in the past three years)**

1. Fuld K, **Chi C**, Wilson DM, Neely EK. "Comparison of monthly and 3-month depot leuprolide doses for central precocious puberty." Poster session, Pediatric Academic Society, 2008.
2. **Chi C**, Durham E, Neely EK. "Pharmacodynamics of leuprolide stimulation testing in the diagnosis of central precocious puberty." Poster session, Pediatric Endocrine Society Annual Meeting, September 2009.
3. Fuld K, **Chi C**, Wilson DM, Neely EK. "Direct comparison of monthly versus multi-monthly depot leuprolide doses for central precocious puberty." Poster session, Pediatric Endocrine Society Annual Meeting, September 2009.
4. Grover M, **Chi C**, Popek E. "Treatment of congenital hyperinsulinism following near pancreatectomy." Poster session, Pediatric Fellows' College Scholarship Symposium, March 2010.
5. **Chi C**, Yazdani P, Gibbons WE, Lamb DJ. "Antimullerian hormone levels in healthy girls from childhood to adolescence." Poster session, Pediatric Endocrine Society Annual meeting, May 2011.
6. Levy E, Sonabend R, Johnson D, **Chi C**. "Bone disease during treatment of childhood acute lymphoblastic leukemia." Poster session, Allied Health Study Research Symposium, January 2012.

#### **Book chapters**

1. Krane EJ; Rhodes ET; Neely EK; Wolfsdorf JI; **Chi CH**. "Anesthetic management of children with endocrine disorders." In: Cote C, et. Al., eds. *A Practice of Anesthesia for Infants and Children*, 4<sup>th</sup> edition, 2008.

### **D. Research Support**

#### **Completed Research Support**

1. Child Health Career Development Award (NIH, K12 HD41648)      November 2009 – June 2011  
     Title: Ovarian Reserve Testing in Healthy Girls  
     Principle Investigator: Carolyn H. Chi MD, Mentor – Dolores Lamb PhD and William Gibbons MD  
     Goals of this project: To establish serum AMH concentrations in healthy girls, ages 5 to 17 years, and to correlate AMH to biomarkers of ovarian function including inhibin B and estradiol.