

Stanford



Bill Chiu

Associate Professor of Surgery (Pediatric Surgery)

Surgery - Pediatric Surgery

CLINICAL OFFICES

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Chiu obtained his B.S. degree in Biological Sciences and graduated with Honors from Stanford University. After graduating, he received his Medical Degree at Northwestern University Feinberg School of Medicine, where he remained for his internship and General Surgery residency training. Dr. Chiu completed his Pediatric Surgery training at The Children's Hospital of Philadelphia. He is an Associate Professor at Stanford University School of Medicine where he has an active research program studying innovative approaches to treat patients with neuroblastoma.

CLINICAL FOCUS

- Pediatric Surgery
- Surgical Oncology
- Anorectal Malformations
- Minimally Invasive Surgery
- Neonatal Surgery

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Surgery - Pediatric Surgery
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Surgery, American Board of Surgery (2011)
- Fellowship: Childrens Hospital of Philadelphia Surgery Fellowship (2010) PA
- Board Certification: General Surgery, American Board of Surgery (2008)
- Residency: Northwestern University Feinberg Dept of Surgery (2008) IL
- Medical Education: Northwestern University Feinberg School of Medicine (2001) IL

Publications

PUBLICATIONS

- **RAS Inhibition Delays Neuroblastoma Tumor Growth and Genes Upregulated in Tumors with High Ras Expression Can Be Identified Using Gene Set Enrichment Analysis**
Diyaulu, M., Rajagopalan, V., Huang, M., Zeki, J. C., Greathouse, R., O'Bryan, J., Chiu, B.
ELSEVIER SCIENCE INC.2021: S189-S190
- **Combining inhibitors of Brd4 and cyclin-dependent kinase can decrease tumor growth in neuroblastoma with MYCN amplification.** *Journal of pediatric surgery*
Wood, L., Huang, M., Zeki, J., Gong, M., Taylor, J., Shimada, H., Chiu, B.
2021: 60215
- **Stage 4S Neuroblastoma: Molecular, Histologic, and Immunohistochemical Characteristics and Presence of 2 Distinct Patterns of MYCN Protein Overexpression-A Report From the Children's Oncology Group.** *The American journal of surgical pathology*
Kawano, A., Hazard, F. K., Chiu, B., Naranjo, A., LaBarre, B., London, W. B., Hogarty, M. D., Cohn, S. L., Maris, J. M., Park, J. R., Gastier-Foster, J. M., Ikegaki, N., Shimada, et al
2020
- **Development of a Dinutuximab Delivery System Using Silk Foams for GD2 Targeted Neuroblastoma Cell Death.** *Journal of biomedical materials research. Part A*
Ornell, K. J., Chiu, B., Coburn, J. M.
2020
- **Gene Expression Signature in Human Neuroblastoma with TERT Overexpression Can Be Identified by Gene Set Enrichment Analysis and Epigenetically Targeted in an Orthotopic Mouse Xenograft Model**
Huang, M., Wood, L., Zeki, J. C., Diyaolu, M., Gong, M., Taylor, J. S., Shimada, H., Chiu, B.
ELSEVIER SCIENCE INC.2020: S199
- **Enhancing sustained-release local therapy: Single versus dual chemotherapy for the treatment of neuroblastoma.** *Surgery*
Taylor, J. S., Yavuz, B., Zeki, J., Wood, L., Ikegaki, N., Coburn, J., Harrington, K., Shimada, H., Kaplan, D. L., Chiu, B.
2020
- **Local delivery of dinutuximab from lyophilized silk fibroin foams for treatment of an orthotopic neuroblastoma model.** *Cancer medicine*
Ornell, K. J., Taylor, J. S., Zeki, J., Ikegaki, N., Shimada, H., Coburn, J. M., Chiu, B.
2020
- **EPIGENETIC TARGETING OF TERT-ASSOCIATED GENE EXPRESSION SIGNATURE IN HUMAN NEUROBLASTOMA WITH TERT OVEREXPRESSION.** *Cancer research*
Huang, M. n., Zeki, J. n., Sumarsono, N. n., Coles, G. L., Taylor, J. S., Danzer, E. n., Bruzoni, M. n., Hazard, F. K., Lacayo, N. J., Sakamoto, K. M., Dunn, J. C., Spunt, S. L., Chiu, et al
2020
- **Symptom monitoring and the uncertain threat of disease recurrence: A deductive thematic analysis with adolescent and young adult (AYA) cancer survivors.**
Heathcote, L. C., Loecher, N., Spunt, S. L., Simon, P., Dahl, G., Moiceanu, S., Cruanes, G., Tutelman, P., Schapira, L., Mueller, C., Chiu, B., Simons, L.
AMER SOC CLINICAL ONCOLOGY.2019
- **Optimizing Sustained Release Local Therapy: Single vs Dual Chemotherapy for the Treatment of Neuroblastoma**
Taylor, J. S., Yavuz, B., Zeki, J., Ikegaki, N., Coburn, J. M., Harrington, K., Shimada, H., Kaplan, D. L., Chiu, B.

ELSEVIER SCIENCE INC.2019: S210–S211

- **Replicating and identifying large cell neuroblastoma using high-dose intra-tumoral chemotherapy and automated digital analysis.** *Journal of pediatric surgery*
Taylor, J. S., Sha, L., Ikegaki, N., Zeki, J., Deaton, R., Harris, J., Coburn, J., Yavuz, B., Sethi, A., Shimada, H., Kaplan, D. L., Gann, P., Chiu, et al
2019
- **Silk Reservoirs for Local Delivery of Cisplatin for Neuroblastoma Treatment: In Vitro and In Vivo Evaluations** *JOURNAL OF PHARMACEUTICAL SCIENCES*
Yavuz, B., Zeki, J., Taylor, J., Harrington, K., Coburn, J. M., Ikegaki, N., Kaplan, D. L., Chiu, B.
2019; 108 (8): 2748–55
- **Down-regulation of MYCN protein by CX-5461 leads to neuroblastoma tumor growth suppression**
Taylor, J. S., Zeki, J., Ornell, K., Coburn, J., Shimada, H., Ikegaki, N., Chiu, B.
W B SAUNDERS CO-ELSEVIER INC.2019: 1192–97
- **Silk Reservoirs For Local Delivery Of Cisplatin For Neuroblastoma Treatment: In Vitro And In Vivo Evaluations.** *Journal of pharmaceutical sciences*
Yavuz, B., Zeki, J., Taylor, J., Harrington, K., Coburn, J. M., Ikegaki, N., Kaplan, D. L., Chiu, B.
2019
- **Down-regulation of MYCN protein by CX-5461 leads to neuroblastoma tumor growth suppression.** *Journal of pediatric surgery*
Taylor, J. S., Zeki, J., Ornell, K., Coburn, J., Shimada, H., Ikegaki, N., Chiu, B.
2019
- **Sustained Application of Dinutuximab within Neuroblastoma Tumor Is Effective in Decreasing Tumor Growth**
Harris, J., Ornell, K. J., Zeki, J. C., Coburn, J. M., Chiu, B.
ELSEVIER SCIENCE INC.2018: E193
- **In vitro and in vivo evaluation of etoposide - silk wafers for neuroblastoma treatment** *JOURNAL OF CONTROLLED RELEASE*
Yavuz, B., Zeki, J., Coburn, J. M., Ikegaki, N., Levitin, D., Kaplan, D. L., Chiu, B.
2018; 285: 162–71
- **Combined application of Indocyanine green (ICG) and laser lead to targeted tumor cell destruction.** *Journal of pediatric surgery*
Taylor, J. S., Zeki, J., Ikegaki, N., Chen, L. L., Chiu, B.
2018
- **Disseminated injection of vincristine-loaded silk gel improves the suppression of neuroblastoma tumor growth.** *Surgery*
Zeki, J., Taylor, J. S., Yavuz, B., Coburn, J., Ikegaki, N., Kaplan, D. L., Chiu, B.
2018
- **Inhibitors of RNA Pol I and an aminoacyl-tRNA synthetase result in MYC and MYCN downregulation in MYC family protein-driven neuroblastoma cells**
Ikegaki, N., Zeki, J., Chiu, B., Shimada, H.
AMER ASSOC CANCER RESEARCH.2018
- **Dexrazoxane Significantly Reduces Anthracycline-induced Cardiotoxicity in Pediatric Solid Tumor Patients: A Systematic Review.** *Journal of pediatric hematology/oncology*
Liesse, K., Harris, J., Chan, M., Schmidt, M. L., Chiu, B.
2018
- **MYC-family protein overexpression and prominent nucleolar formation represent prognostic indicators and potential therapeutic targets for aggressive high-MKI neuroblastomas: a report from the children's oncology group.** *Oncotarget*
Niemas-Teshiba, R., Matsuno, R., Wang, L. L., Tang, X. X., Chiu, B., Zeki, J., Coburn, J., Ornell, K., Naranjo, A., Van Ryn, C., London, W. B., Hogarty, M. D., Gastier-Foster, et al
2018; 9 (5): 6416-6432
- **Manipulation of variables in local controlled release vincristine treatment in neuroblastoma**
Coburn, J. M., Harris, J., Cunningham, R., Zeki, J., Kaplan, D. L., Chiu, B.
W B SAUNDERS CO-ELSEVIER INC.2017: 2061–65
- **Manipulation of variables in local controlled release vincristine treatment in neuroblastoma.** *Journal of pediatric surgery*
Coburn, J. M., Harris, J., Cunningham, R., Zeki, J., Kaplan, D. L., Chiu, B.

2017; 52 (12): 2061-2065

- **Silencing Intersectin 1 Slows Orthotopic Neuroblastoma Growth in Mice** *JOURNAL OF PEDIATRIC HEMATOLOGY ONCOLOGY*
Harris, J., Herrero-Garcia, E., Russo, A., Kajdacsy-Balla, A., O'Bryan, J. P., Chiu, B.
2017; 39 (8): E413–E418
- **A Rare Case of Thoracoschisis.** *Journal of neonatal surgery*
Harris, J., Zhang, Y., Patel, S., Dille, B., Garzon, S., Lee, J. H., Chiu, B.
2017; 6 (3): 65
- **Implantable chemotherapy-loaded silk protein materials for neuroblastoma treatment** *INTERNATIONAL JOURNAL OF CANCER*
Coburn, J., Harris, J., Zakharov, A. D., Poirier, J., Ikegaki, N., Kajdacsy-Balla, A., Pilichowska, M., Lyubimov, A. V., Shimada, H., Kaplan, D. L., Chiu, B.
2017; 140 (3): 726–35
- **Clinical Considerations of Focal Drug Delivery in Cancer Treatment** *CURRENT DRUG DELIVERY*
Harris, J., Klonoski, S. C., Chiu, B.
2017; 14 (5): 588–96
- **Sustained delivery of vincristine inside an orthotopic mouse sarcoma model decreases tumor growth**
Harris, J. C., Coburn, J. M., Kajdacsy-Balla, A., Kaplan, D. L., Chiu, B.
W B SAUNDERS CO-ELSEVIER INC.2016: 2058–62
- **Irreversible Electroporation as an Effective Technique for Ablating Human Metastatic Osteosarcoma** *JOURNAL OF PEDIATRIC HEMATOLOGY ONCOLOGY*
Harris, J. C., Chen, A., Macias, V., Mahon, B., Chiu, B., Pillai, S.
2016; 38 (3): 182–86
- **Duodenal Atresia and Neonatal Cholestasis in R117H Cystic Fibrosis** *JOURNAL OF CLINICAL NEONATOLOGY*
Harris, J., Sheppard, S., Chiu, B., Shah, A.
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- **Creation of a murine orthotopic hepatoma model with intra-abdominal metastasis.** *Gastroenterology and hepatology from bed to bench*
Harris, J., Kajdacsy-Balla, A., Chiu, B.
2016; 9 (3): 174–79
- **Early Closure of Gastroschisis After Silo Placement Correlates with Earlier Enteral Feeding.** *Journal of neonatal surgery*
Harris, J., Poirier, J., Selip, D., Pillai, S., N Shah, A., Jackson, C., Chiu, B.
2015; 4 (3): 28
- **Focal therapy of neuroblastoma using silk films to deliver kinase and chemotherapeutic agents in vivo** *ACTA BIOMATERIALIA*
Seib, F., Coburn, J., Konrad, I., Klebanov, N., Jones, G. T., Blackwood, B., Charest, A., Kaplan, D. L., Chiu, B.
2015; 20: 32–38
- **Surgery combined with controlled-release doxorubicin silk films as a treatment strategy in an orthotopic neuroblastoma mouse model** *BRITISH JOURNAL OF CANCER*
Chiu, B., Coburn, J., Pilichowska, M., Holcroft, C., Seib, F. P., Charest, A., Kaplan, D. L.
2014; 111 (4): 708–15
- **Management of patients with combined tracheoesophageal fistula, esophageal atresia, and duodenal atresia.** *International journal of surgery case reports*
Nabzdyk, C. S., Chiu, B., Jackson, C., Chwals, W. J.
2014; 5 (12): 1288–91
- **Congenital Lung Lesions** *FUNDAMENTALS OF PEDIATRIC SURGERY*
Chiu, B., Flake, A. W., Mattei, P.
2011: 293–97
- **How does the operative strategy for primary hyperparathyroidism impact the findings and cure rate? A comparison of 800 parathyroidectomies** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*
McGill, J., Sturgeon, C., Kaplan, S. P., Chiu, B., Kaplan, E. L., Angelos, P.
2008; 207 (2): 246–49

- **Human extrahepatic portal vein obstruction correlates with decreased factor VII and protein c transcription but increased hepatocyte proliferation** *JOURNAL OF PEDIATRIC SURGERY*
Chiu, B., Melin-Aldana, H., Superina, R. A.
2007; 42 (10): 1768–71
- **Factor VII transcription correlates with hepatocyte proliferation and hepatocyte growth factor expression in a rodent extrahepatic portal vein obstruction model**
Chiu, B., Melin-Aldana, H., Pillai, S., Chu, F., Superina, R. A.
ELSEVIER SCIENCE INC.2007: 277–83
- **Novel action of epidermal growth factor on caspase 3 and its potential as a chemotherapeutic adjunct for neuroblastoma** *JOURNAL OF PEDIATRIC SURGERY*
Chiu, B., Mirkin, B., Madonna, M.
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- **Experience with alternate sources of venous inflow in the meso-Rex bypass operation: the coronary and splenic veins** *JOURNAL OF PEDIATRIC SURGERY*
Chiu, B., Pittai, S. B., Sandier, A. D., Superina, R. A.
2007; 42 (7): 1199–1202
- **Extrahepatic portal vein obstruction results in hepatocyte proliferation but a decrease in protein-C synthesis** *JOURNAL OF PEDIATRIC SURGERY*
Chiu, B., Melin-Aldana, H., Pillai, S., Hernandez, J. M., Superina, R. A.
2007; 42 (5): 796–99
- **Epidermal growth factor can induce apoptosis in neuroblastoma** *JOURNAL OF PEDIATRIC SURGERY*
Chiu, B., Mirkin, B., Madonna, M.
2007; 42 (3): 482–88
- **Mitogenic and apoptotic actions of epidermal growth factor on neuroblastoma cells are concentration-dependent**
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- **What is the link between nonlocalizing sestamibi scans, multigland disease, and persistent hypercalcemia? A study of 401 consecutive patients undergoing parathyroidectomy** *SURGERY*
Chiu, B., Sturgeon, C., Angelos, P.
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- **Injury in the first year of life: Risk factors and solutions for high-risk families**
Crandall, M., Chiu, B., Sheehan, K.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2006: 7–10
- **Encephalopathy caused by a splenorenal shunt can be reversed by performing a mesenteric-to-left portal vein bypass** *JOURNAL OF PEDIATRIC SURGERY*
Chiu, B., Superina, R. A.
2006; 41 (6): 1177–79
- **Which Intraoperative parathyroid hormone assay criterion best predicts operative success? A study of 352 consecutive patients**
Chiu, B., Sturgeon, C., Angelos, P.
AMER MEDICAL ASSOC.2006: 483–87
- **Longitudinal pancreaticojejunostomy and selective biliary diversion for chronic pancreatitis in children**
Chiu, B., Lopoo, J., Superina, R. A.
W B SAUNDERS CO-ELSEVIER INC.2006: 946–49
- **Closing arguments for gastroschisis: management with silo reduction** *JOURNAL OF PERINATAL MEDICINE*
Chiu, B., Lopoo, J., Hoover, J. D., Almond, P. S., Arensman, R., Madonna, M. B.
2006; 34 (3): 243–45
- **To drain or not to drain: a single institution experience with neonatal intestinal perforation** *JOURNAL OF PERINATAL MEDICINE*
Chiu, B., Pillai, S. B., Almond, R., Madonna, M., Reynolds, M., Luck, S. R., Arensman, R. M.
2006; 34 (4): 338–41

- **Management of an epidermoid cyst of the intrahepatic ducts** *JOURNAL OF PEDIATRIC SURGERY*
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2005; 40 (12): e31-3
- **Intestinal obstruction from furniture cushion foam bezoar** *SURGERY*
Chin, B., Ciaccio, C., West, M. A.
2005; 138 (5): 956-58
- **Intestinal obstruction from furniture cushion foam bezoar.** *Surgery*
Chiu, B., Ciaccio, C., West, M. A.
2005; 138 (5): 956-8
- **Extrahepatic portal vein thrombosis is associated with an increased incidence of cholelithiasis** *JOURNAL OF PEDIATRIC SURGERY*
Chiu, B., Superina, R.
2004; 39 (7): 1059-61
- **Periodic alternating nystagmus provoked by an attack of Meniere's disease** *JOURNAL OF NEURO-OPHTHALMOLOGY*
Chiu, B., Hain, T. C.
2002; 22 (2): 107-9
- **Murine aortic aneurysm produced by periarterial application of calcium chloride** *JOURNAL OF SURGICAL RESEARCH*
Chiou, A. C., Chiu, B., Pearce, W. H.
2001; 99 (2): 371-76
- **Transplanting a kidney with a renal artery aneurysm--a case report and literature review.** *Vascular surgery*
Chiu, B., Chiou, A. C., Leventhal, J. R., Stuart, F. P., Pearce, W. H.
2001; 35 (4): 321-324
- **Transrectal ultrasound assessment of murine aorta and iliac arteries** *JOURNAL OF SURGICAL RESEARCH*
Chiou, A. C., Chiu, B., Oppat, W. F., Matsumura, J. S., Chisholm, R. L., Pearce, W. H.
2000; 88 (2): 193-99