

CCSS Biospecimen and Pathology Update



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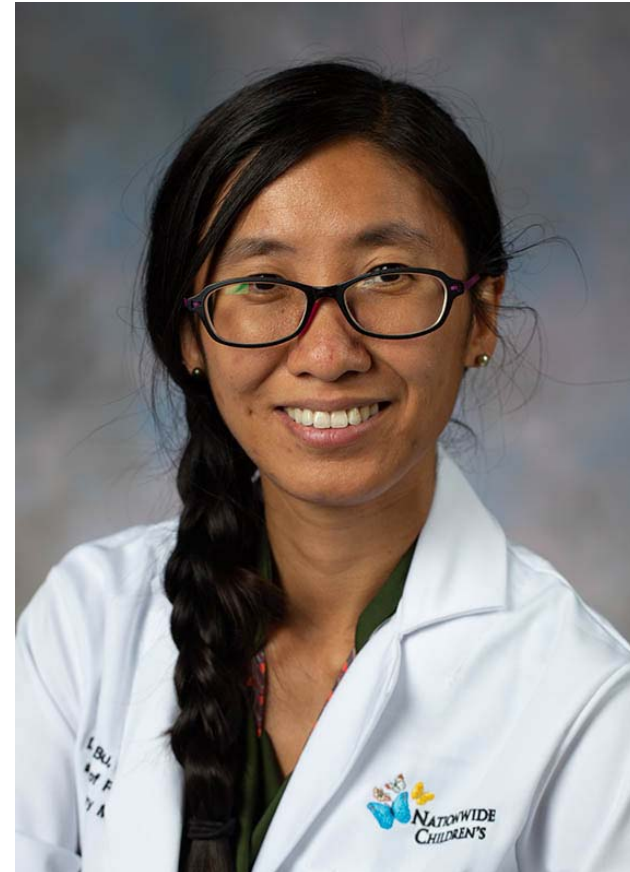
CCSS Pathology Goals

- Review reports of secondary malignancies
- Maintain surgical pathology material submitted to CCSS for use in future research
 - Optimize storage conditions
 - Manage inventory to improve clarity and accessibility to CCSS investigators

Additional Review Pathologist

Dr. Fang Bu

- Pediatric Pathologist at NCH
- Completed Pediatric Pathology Fellowship at Children's Hospital Los Angeles



SMN Review History

- 2017: 748 conditions reviewed
- 2018: 475 conditions reviewed
- 2019: 1091 conditions reviewed

Projects/Banks Supported by the Biopathology Center (BPC) at NCH

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GROUP**

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SWOG 
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NCTN Navigator



CCSS

Childhood Cancer Survivor Study

THE CANCER GENOME ATLAS 

SARC Sarcoma Alliance
for Research
Through Collaboration

HTMCP
HIV+ Tumor Characterization Project

 **TARGET**

BLGSP
Burkitt Lymphoma Genome Sequencing Project

ALCHEMIST

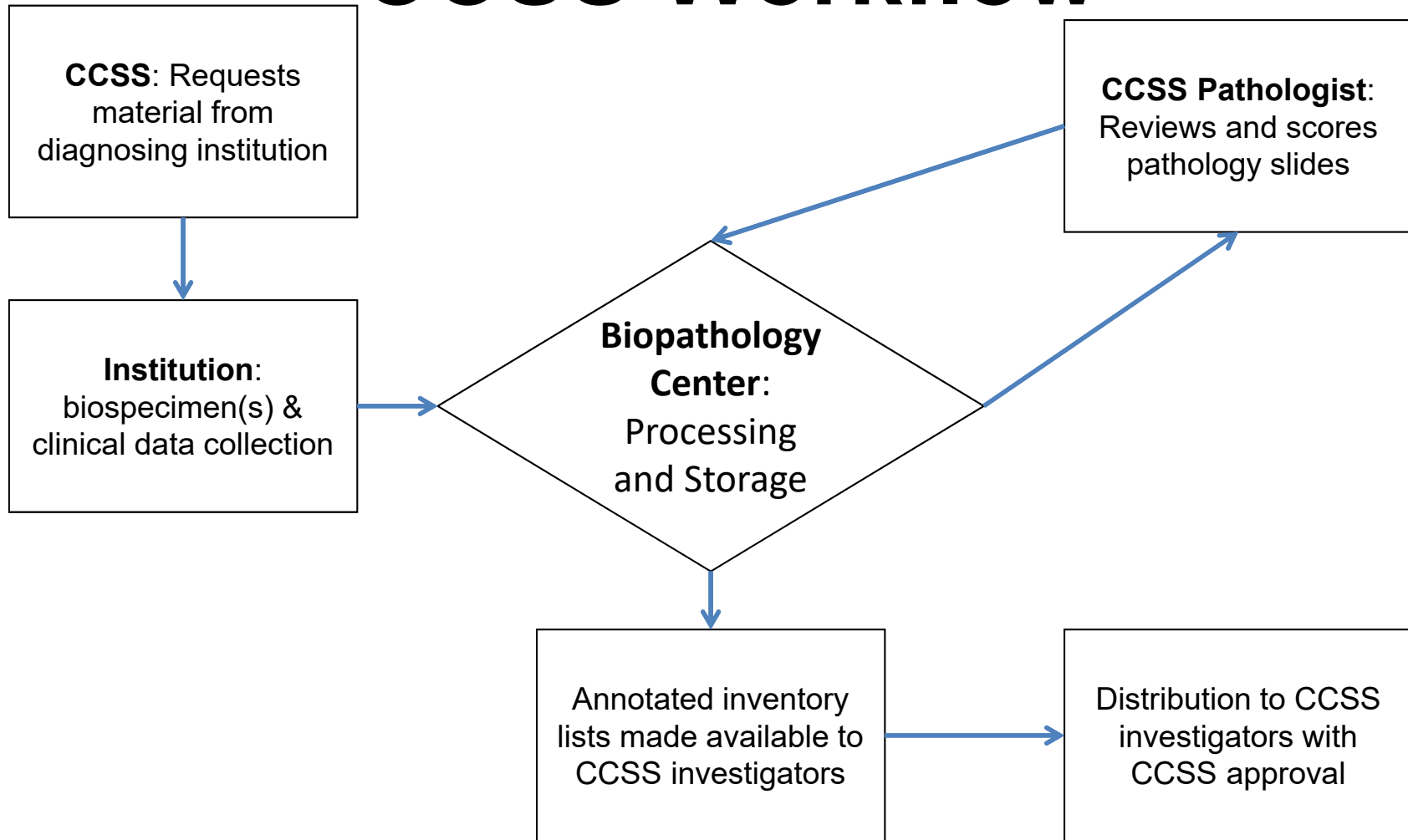
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When your child needs a hospital, everything matters.™

Scope NCH BPC of Activities

- >4 million biospecimens in storage
- >50,000 specimens distributed every year to academic and commercial researchers across the US and overseas
- Close to 1,000 biospecimens received everyday from >500 national and international institutions
- Accredited by the *College of American Pathologists Biorepository Accreditation Program (CAP BAP)*
- Involved in scientific publications (including biospecimen processing, banking, and regulatory issues)

CCSS Workflow



CCSS Inventory

Distribution of Biologic Material Available for Subsequent Neoplasms												
SMN	Total case reported	Total with path reports	# with host tissue			Host tissue (any kind) and MRAF data	Total with MRAF data	Total with SMN tissue	Number of Cases with Tissue Type			
			Buccal cells	Oragene	Blood				H&E Slides	Unstained Slides	Scrolls	Blocks
Breast	486	309	246	257	216	344	468	160	145	103	28	49
Meningioma*	395	179	210	236	161	293	369	52	50	42	12	19
Other CNS	130	66	29	28	18	38	126	19	13	16	1	4
Thyroid	287	140	122	171	131	213	280	77	74	65	25	22
Sarcoma	117	75	40	38	33	55	109	20	17	19	4	3
Leukemia	55	24	10	11	7	14	49	5	5	4	0	1
Bone	55	38	11	9	10	17	47	1	1	1	0	1
Melanoma	70	37	29	36	27	48	68	10	9	9	2	1
Lymphoma	61	34	18	24	19	31	57	8	7	6	1	2
Renal Cell	48	25	23	25	15	28	45	4	4	4	0	1
Other Carcinoma	249	125	106	119	73	150	242	49	48	32	3	18
NMSC*	3,632	1,626	1,920	2,160	950	2,669	3,384	5	5	3	0	1
All Other	61	21	22	20	13	28	56	9	8	6	0	1
TOTALS	5,646	2,699	2,786	3,134	1,673	3,928	5,300	419	386	310	76	123

CCSS Inventory Breakdown

2017 Inventory	H&E Slides	Unstained Slides	Scrolls	Blocks
Cases	386	310	76	123
Total Number of Items	1,115	8,262	170	375

2019 Inventory	H&E Slides	Unstained Slides	Scrolls	Blocks
Cases	807	496	215	313
Total Number of Items	1,906	11,691	393	702

CCSS Inventory Breakdown

	H&E Slides	Unstained	Scrolls	Blocks	
Total Number of Items	1,906	11,691	393	702	
Meningioma	297	1,618	47	128	
Other CNS	52	510	8	9	
Thyroid	323	2,653	95	121	
Sarcoma	66	700	18	10	
Leukemia	34	208	3	2	
Bone	4	79	0	1	
Melanoma	36	492	5	11	
Lymphoma	72	192	5	18	
..... Other Carcinoma	281	1,487	41	140
NMSC	20	60	2	1	
All Other	30	341	8	7	

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