The Cervical Dysplasia Worksheet: A Longitudinal Map of Cytology and Histology of Cervical Dysplasia Test and Procedures

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Disclosures

- No financial relationships or conflict of interest to disclose

Background

- Cervical dysplasia is a precancerous condition in which abnormal cell growth occurs on the surface lining of the cervix or endocervical canal
  - Usually first identified by a pap smear and then further examined by a colposcopy

- Evolution of cervical cancer is a longitudinal process that takes years to manifest

- Algorithms relating to dysplasia tiers and HPV typing are complex, making follow up and assessment challenging
  - Tracking and sharing of information with patients with the complexity of the process can be difficult

Objective

- Introduction of the Cervical Dysplasia Worksheet (CDW)
- Designed to allow visualization of cervical dysplasia tests, procedures, and results over time
  - Holistically view a patient's history
- Supports patient-provider communication
- Augments the ASCCP guidelines for managing abnormal screenings

Methods

- Left y-axis demonstrates a patient's cytology from NILM to HSIL with color gradation to depict severity

- Right y-axis charts a patient's histology from No CIN to AIS when a biopsy is performed; allows documentation of negative or positive margins

- From left to right, x-axis displays dates and descriptions of patient clinical encounters

- Results of HPV testing displayed on top of chart

- Convenience sample of 100 patient records from CCHHS were retrospectively reviewed

Cervical Dysplasia Worksheet

EXAMPLE

Cervical Dysplasia Worksheet
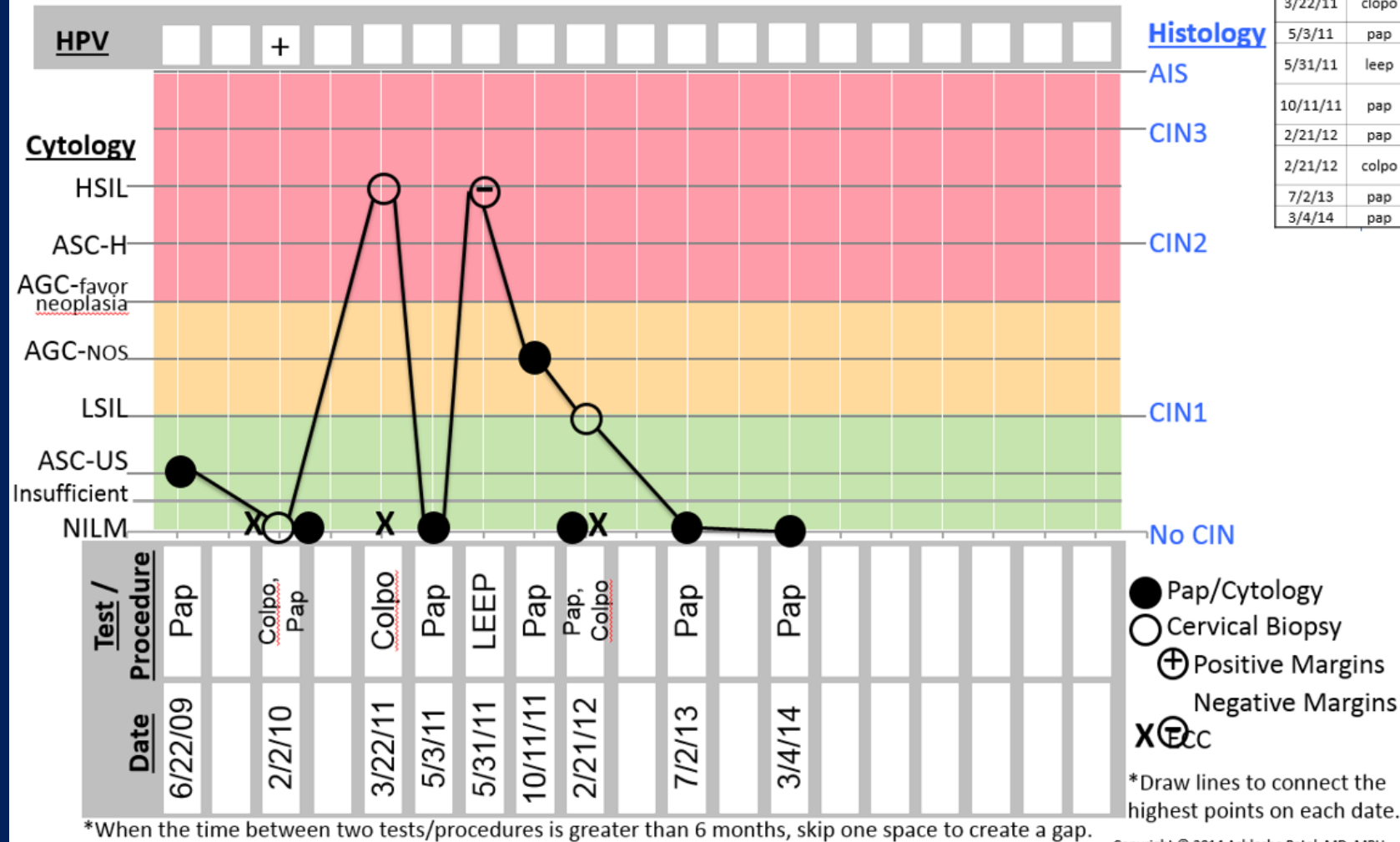
Raw Patient Data:

| Date	test	result	HPV
6/22/09	pap	ASCUS	
2/2/10	colpo	Neg (cx bx) ECC neg	
2/2/10	pap	negative	positive
3/22/11	clopo	CIN2/3 (CX bx) ecc neg	
5/3/11	pap	negative	
5/31/11	leep	CIN2/3 (margins neg)	
10/11/11	pap	AGC-NOS (AGUS)	
2/21/12	pap	negative	
2/21/12	colpo	cin-1 (Cx Bx) ecc neg	
7/2/13	pap	negative	
3/4/14	pap	negative	

Results

- ~98% of patient's data fit into the graphing design
- Reason for lack of fit was lack of space to record 10+ years of history and endometrial biopsies
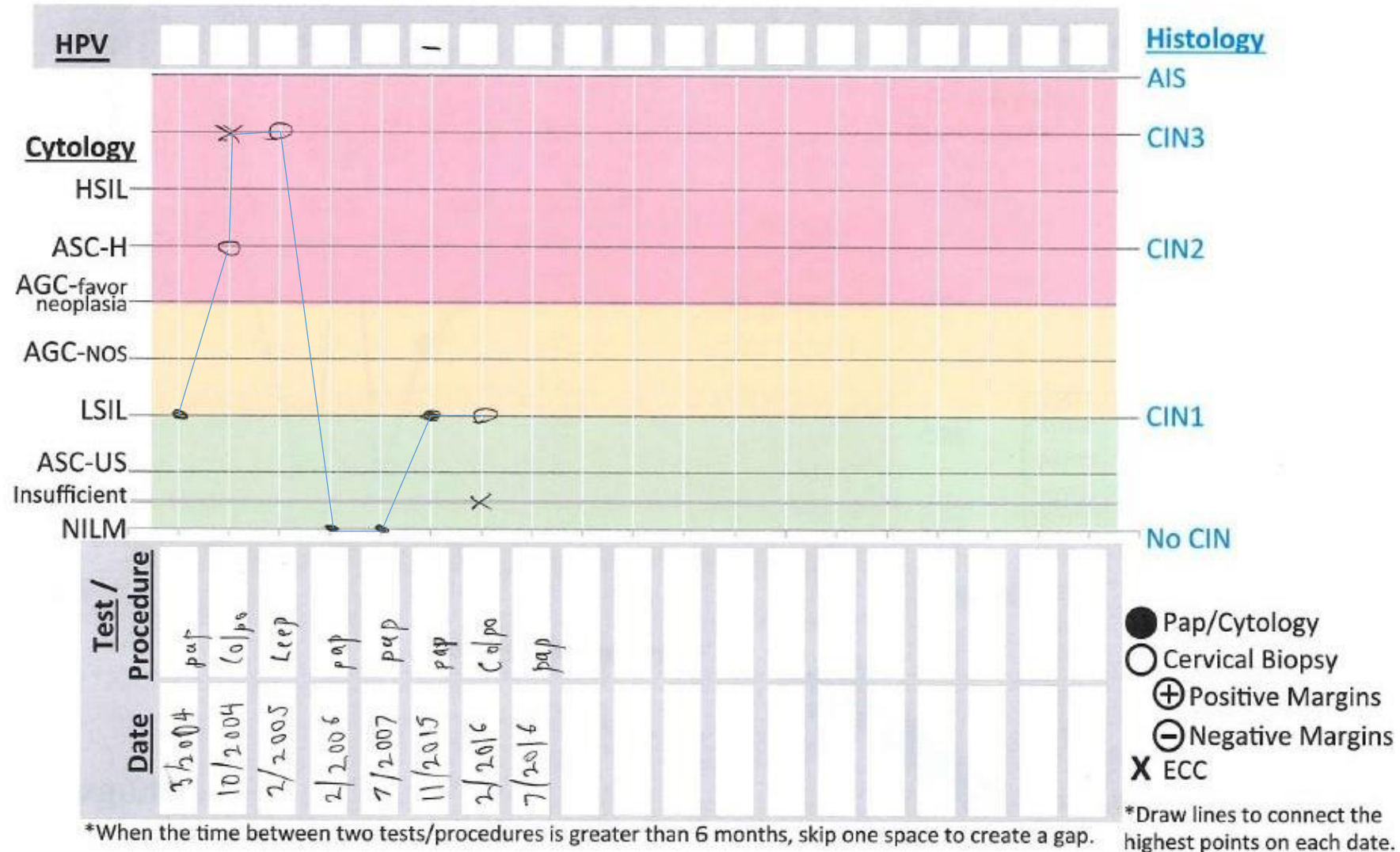- Will be taken into consideration for future modification

Cervical Dysplasia Worksheet
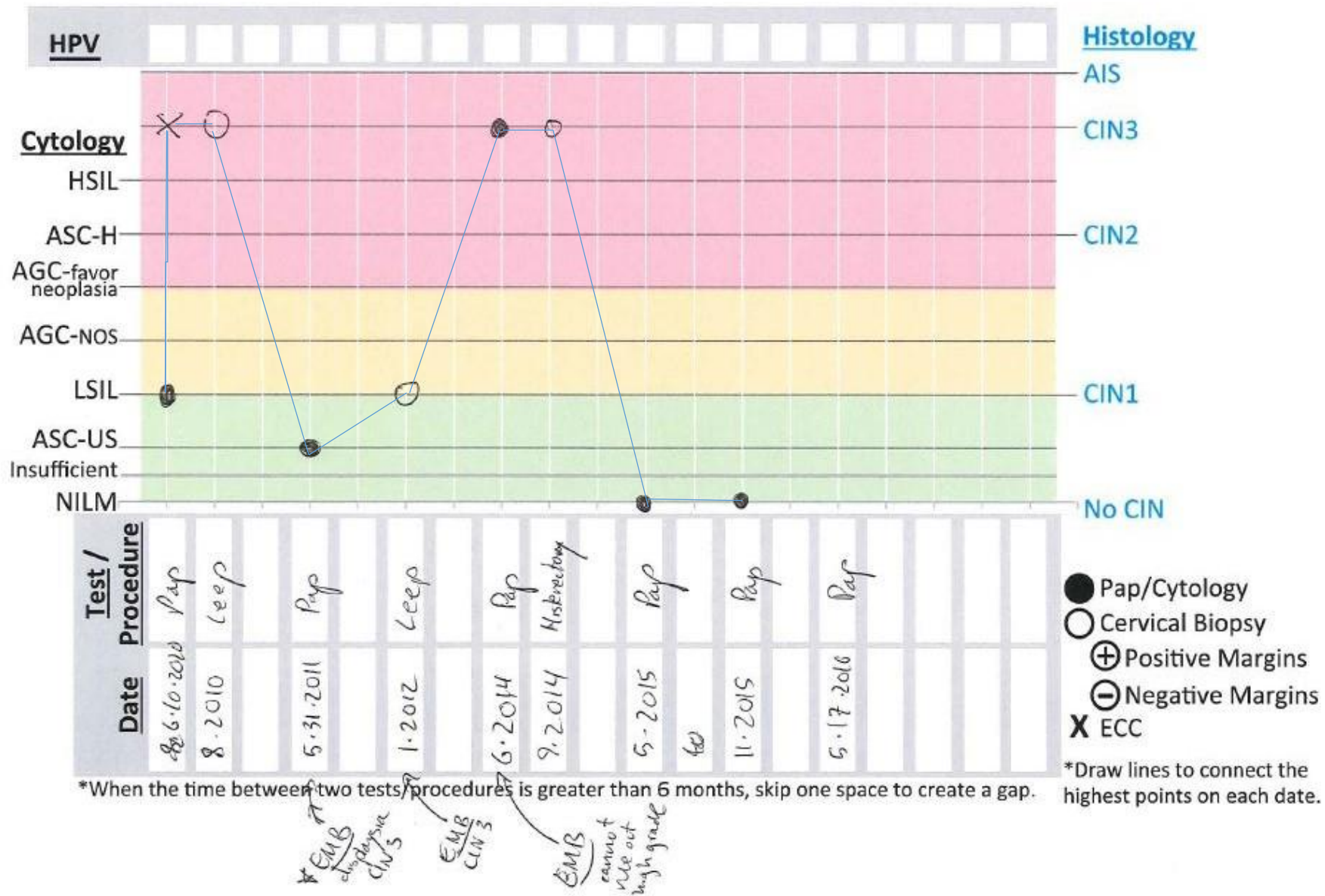
Cervical Dysplasia Worksheet
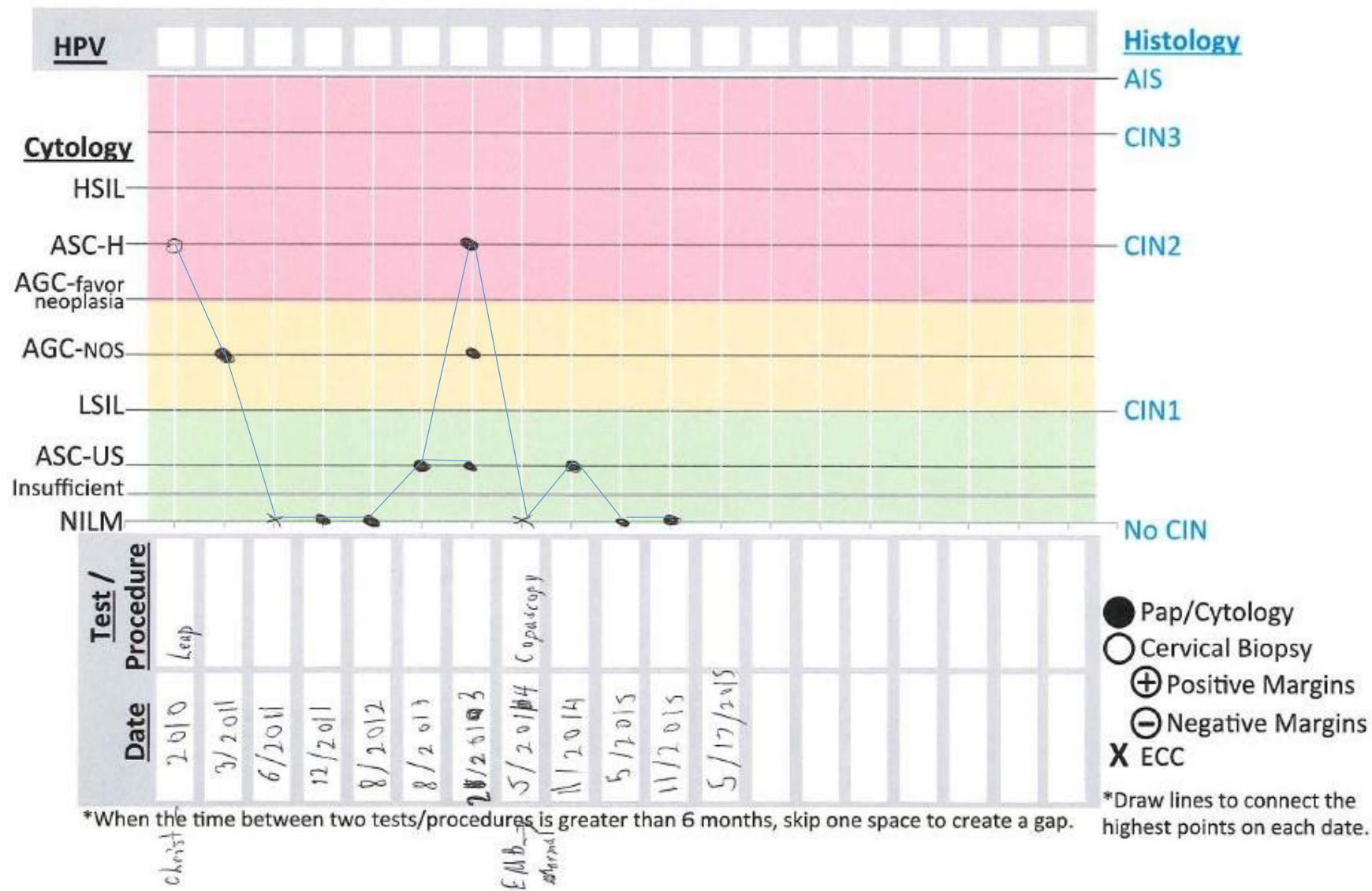
Cervical Dysplasia Worksheet

Conclusions

- CDW a novel tool to display cervical dysplasia history
- Facilitates visualization of treatment and future care to improve patient-provider communication and patient understanding
- Potential integration with ASCCP application to enhance a patient centered version
- Further implementation and outcome measures needed to assess tool efficacy
- If you are interested in using please contact apatel2@cookcountyhhs.org

Questions?