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Supplemental table 1. Conditional dominance of independent variables in the diagnosis of differentiated vulvar intraepithelial neoplasia.

	Additional Variables	Epidermal Thickness	Elongated Rete	Anastomosing Rete	Parakeratosis	Hypergranulosis	Keratin Pearls	Homogenized Dermal Collagen	Lichenoid Inflammation	Basal Layer Disarray	Basal Pleomorphism
1	0	0.07	0.05	0.05	0.07	0.02	0.09	0.02	0.03	0.14	0.27
2	1	0.05	0.03	0.03	0.05	0.01	0.07	0.01	0.02	0.12	0.23
3	2	0.03	0.02	0.02	0.04	0.01	0.06	0.01	0.02	0.10	0.19
4	3	0.03	0.01	0.01	0.03	0.01	0.05	0.01	0.02	0.09	0.17
5	4	0.02	0.01	0.01	0.02	0.01	0.04	0.01	0.01	0.07	0.14
6	5	0.02	0.00	0.00	0.02	0.01	0.03	0.01	0.01	0.06	0.12
7	6	0.01	0.00	0.00	0.02	0.01	0.03	0.01	0.01	0.05	0.10
8	7	0.01	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.04	0.09
9	8	0.01	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.03	0.07
10	9	0.01	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.02	0.06

Supplemental table 2. Conditional dominance of independent variables in the diagnosis of squamous cell carcinoma.

Additional Variables	Epidermal Thickness	Elongated Rete	Anastomosing Rete	Parakeratosis	Hypergranulosis	Keratin Pearls	Homogenized Dermal Collagen	Lichenoid Inflammation	Basal Layer Disarray	Basal Pleomorphism
0	0.08	0.06	0.04	0.08	0.02	0.11	0.01	0.02	0.11	0.18
1	0.06	0.04	0.02	0.06	0.01	0.09	0.01	0.02	0.09	0.14
2	0.05	0.02	0.01	0.04	0.01	0.07	0.01	0.02	0.07	0.11
3	0.04	0.02	0.01	0.03	0.01	0.06	0.01	0.01	0.06	0.09
4	0.03	0.01	0.00	0.03	0.01	0.05	0.01	0.01	0.05	0.07
5	0.02	0.01	0.00	0.03	0.01	0.05	0.01	0.01	0.04	0.06
6	0.02	0.00	0.00	0.02	0.01	0.04	0.01	0.01	0.03	0.04
7	0.02	0.00	0.00	0.02	0.01	0.04	0.01	0.01	0.03	0.03
8	0.02	0.00	0.00	0.02	0.01	0.04	0.01	0.01	0.02	0.02
9	0.02	0.00	0.00	0.02	0.01	0.04	0.01	0.01	0.02	0.02