## Case-Level Decision Making Code Update

Presentation 5

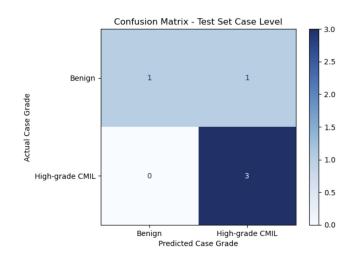
## Integrated Code to Skeleton Code

SVC decision function included in skeleton code and integrated to work with code setup (sample outputs below)

```
# === Run Case-Level Model Evaluation ===
evaluate_model_case_level_svc(model, train_meta, test_meta, train_loader, test_loader, 25, tune_svc=False)
```

Train Accuracy: 1	.0			
Train Precision 1	.0			
Train Recall: 1.0				
Train F1 Score: 1	.0			
=== Test Set Perfo	ormance ===			
Test Accuracy: 0.8	3			
Test Precision 0.				
Test Recall: 1.0	, ,			
Test F1 Score: 0.8	35714285714	28571		
Classification Rep	port:			
1	precision	recall	f1-score	support
Benign	1.00	0.50	0.67	2
High-grade CMIL	0.75	1.00	0.86	3
0 0				
accuracy			0.80	5
macro avg	0.88	0.75		5
-				5
weighted avg	0.85	0.80	0.78	5

=== Train Set Performance ===



## New Handling of Multi-Stain Code

- Different stains contain different information; therefore if we choose to train
  on multiple stains, we should use the top-k results of each stain separately
- Updated code automatically handles results based on the stains used

## Sample Train Dataframe

	h&e_prob_0	h&e_prob_1	•••	melan_prob_0	•••	sox10_prob_0	•••
Case 1	Rank_1_h&e	Rank_2_h&e		Rank_1_melan	•••	Rank_1_sox10	•••
Case 2	Rank_1_h&e	Rank_2_h&e		Rank_1_melan	•••	Rank_1_sox10	
•••							