Case P

Model	Ontology Knowledge			CN Knowledge		
	TP	Total (TP & FP)	Precision	TP	Total (TP & FP)	Precision
Yolo L scr	7	11	64.64	43	64	67.19
Yolo L pre	9	10	90	56	79	70.89
Yolo L noisy20	7	12	58.33	32	47	68.09

Case O

Model	Ontology Knowledge			CN Knowledge		
	TP	Total (TP & FP)	Precision	TP	Total (TP & FP)	Precision
Yolo L scr	3	5	60	3	8	37.5
Yolo L pre	2	2	100	5	6	83.33
Yolo L noisy20	2	2	100	2	2	100

Case PO

Model	Ontology Knowledge			CN Knowledge		
	TP	Total (TP & FP)	Precision	TP	Total (TP & FP)	Precision
Yolo L scr	7	7	100	7	7	100
Yolo L pre	1	1	100	9	9	100
Yolo L noisy20	6	6	100	8	11	72.73

Case MO

Model	Method 1 (Naive)						Method 2 (M1+num of missing objs)	
	Ontology Knowledge			CN Knowledge			Ontology Knowledge	CN Knowledge
	TP	Total (TP & FP)	Precision	TP	Total (TP & FP)	Precision	Precision	Precision
Yolo L scr	331	363	91.18	392	487	80.49	50.14	31.62
Yolo L pre	208	247	84.21	293	451	64.97	48.99	28.38
Yolo L noisy20	560	577	97.05	562	603	93.2	53.03	32.17

Case MO

Model	Method 3 (M1+match poss classes)				Method 4 (M1+M2+M3)	
	Ontology Knowledge		CN Knowledge		Ontology Knowledge	CN Knowledge
	Precision	Score	Precision	Score	Precision	Precision
Yolo L scr	64.71	35.05	44.34	25.75	42.7	17.86
Yolo L pre	58.8	32.5	44.6	25.36	40.49	19.73
Yolo L noisy20	66.61	35.11	44.51	25.78	46.62	12.11

Case MO-Recall for Method 1

Model	Ontology Knowledge			CN Knowledge		
	TP	Total (TP & FN)	Recall	TP	Total (TP & FN)	Recall
Yolo L scr	331	636	52.04	392	636	61.64
Yolo L pre	208	486	42.8	293	486	60.29
Yolo L noisy20	560	865	64.74	562	865	64.97

OVERALL

Model	Ontology Knowledge			CN Knowledge		
	M2	M3	M4	M2	M3	M4
Yolo L scr	50.14	64.71	42.7	31.62	44.34	17.86
Yolo L pre	48.99	58.8	40.49	28.38	44.6	19.73
Yolo L noisy20	53.03	66.61	46.62	32.17	44.51	12.11