

Appendix- table for Figure 1

| Measure | Test Set Evaluation | MCR | i2b2 | MCR+i2b2 |
|-----------|---------------------|------|------|----------|
| F1 | MCR-O | 0.82 | 0.74 | 0.79 |
| F1 | MCR-E | 0.58 | 0.38 | 0.46 |
| F1 | i2b2-O | 0.67 | 0.89 | 0.88 |
| F1 | i2b2-E | 0.40 | 0.79 | 0.75 |
| Precision | MCR-O | 0.90 | 0.71 | 0.76 |
| Precision | MCR-E | 0.68 | 0.38 | 0.46 |
| Precision | i2b2-O | 0.83 | 0.91 | 0.90 |
| Precision | i2b2-E | 0.50 | 0.81 | 0.78 |
| Recall | MCR-O | 0.74 | 0.77 | 0.81 |
| Recall | MCR-E | 0.51 | 0.38 | 0.46 |
| Recall | i2b2-O | 0.56 | 0.87 | 0.85 |
| Recall | i2b2-E | 0.33 | 0.77 | 0.72 |

Appendix- table for Figure 3

| Measure | Eval_type | MCR | i2b2 | i2b2C | MCR+i2b2 | MCR+i2b2C |
|-----------|-----------|------|------|-------|----------|-----------|
| F1 | O | 0.82 | 0.74 | 0.74 | 0.79 | 0.80 |
| F1 | E | 0.58 | 0.38 | 0.42 | 0.46 | 0.52 |
| Precision | O | 0.90 | 0.71 | 0.70 | 0.76 | 0.79 |
| Precision | E | 0.68 | 0.38 | 0.42 | 0.46 | 0.52 |
| Recall | O | 0.74 | 0.77 | 0.78 | 0.81 | 0.82 |
| Recall | E | 0.51 | 0.38 | 0.42 | 0.46 | 0.51 |

Appendix- table for Figure 4

| Measure | MCR size | MCR | | MCR+i2b2 | | MCR+i2b2C | |
|-----------|----------|------|------|----------|------|-----------|------|
| | | E | O | E | O | E | O |
| F1 | 20 | 0.42 | 0.64 | 0.39 | 0.75 | 0.44 | 0.74 |
| F1 | 40 | 0.47 | 0.72 | 0.39 | 0.75 | 0.48 | 0.77 |
| F1 | 60 | 0.52 | 0.76 | 0.43 | 0.77 | 0.49 | 0.79 |
| F1 | 80 | 0.54 | 0.79 | 0.44 | 0.78 | 0.49 | 0.79 |
| F1 | 100 | 0.56 | 0.80 | 0.43 | 0.77 | 0.50 | 0.79 |
| F1 | 120 | 0.57 | 0.80 | 0.44 | 0.78 | 0.50 | 0.79 |
| F1 | 140 | 0.58 | 0.81 | 0.45 | 0.78 | 0.51 | 0.80 |
| F1 | 160 | 0.58 | 0.82 | 0.47 | 0.79 | 0.52 | 0.80 |
| Precision | 20 | 0.64 | 0.89 | 0.39 | 0.73 | 0.43 | 0.70 |
| Precision | 40 | 0.63 | 0.90 | 0.40 | 0.74 | 0.48 | 0.74 |
| Precision | 60 | 0.66 | 0.91 | 0.43 | 0.75 | 0.49 | 0.77 |
| Precision | 80 | 0.66 | 0.90 | 0.45 | 0.76 | 0.49 | 0.77 |
| Precision | 100 | 0.68 | 0.91 | 0.43 | 0.75 | 0.50 | 0.77 |
| Precision | 120 | 0.68 | 0.90 | 0.45 | 0.76 | 0.51 | 0.77 |
| Precision | 140 | 0.68 | 0.91 | 0.46 | 0.77 | 0.52 | 0.79 |
| Precision | 160 | 0.69 | 0.91 | 0.48 | 0.78 | 0.53 | 0.79 |
| Recall | 20 | 0.31 | 0.50 | 0.39 | 0.78 | 0.45 | 0.78 |
| Recall | 40 | 0.37 | 0.60 | 0.38 | 0.77 | 0.48 | 0.81 |
| Recall | 60 | 0.43 | 0.66 | 0.42 | 0.79 | 0.49 | 0.82 |
| Recall | 80 | 0.46 | 0.71 | 0.44 | 0.79 | 0.49 | 0.81 |
| Recall | 100 | 0.48 | 0.71 | 0.42 | 0.79 | 0.49 | 0.81 |
| Recall | 120 | 0.49 | 0.73 | 0.44 | 0.80 | 0.50 | 0.82 |
| Recall | 140 | 0.50 | 0.74 | 0.44 | 0.79 | 0.50 | 0.81 |
| Recall | 160 | 0.51 | 0.74 | 0.46 | 0.81 | 0.51 | 0.81 |