### Supplementary Table S4. Gene Methylation Detection, Sensitivity, Specificity Using Detectable vs. Non-detectable cutoff in NSCLC early stages

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Cancer (n=48)** | **Control (n=25)** |  |  |  |  |
| **Plasma** | **n** | **Sensitivity** | **n** | **Specificity** | **PPV** | **NPV** | **AUC** | **95% CI** |
| CDO1 | 35 | 73% | 11 | 56% | 76% | 52% | 0.67 | 0.53-0.80 |
| TAC1 | 37 | 77% | 10 | 60% | 79% | 58% | 0.71 | 0.57-0.84 |
| HOXA7 | 30 | 63% | 4 | 84% | 88% | 54% | 0.73 | 0.60-0.85 |
| HOXA9 | 26 | 54% | 5 | 80% | 84% | 48% | 0.64 | 0.51-0.77 |
| SOX17 | 36 | 75% | 9 | 64% | 80% | 57% | 0.73 | 0.60-0.86 |
| ZFP42  | 44 | 92% | 18 | 28% | 71% | 64% | 0.70 | 0.58-0.83 |
| All (at least 3 positive) | 39 | 81% | 10 | 60% | 80% | 63% | 0.64 | 0.51-0.78 |
|  |  |  |  |  |  |  |  |  |
|  | **Cancer (n=47)** | **Control (n=27)** |  |  |  |  |
| **Urine** | **n** | **Sensitivity** | **n** | **Specificity** | **PPV** | **NPV** | **AUC** | **95% CI** |
| CDO1 | 30 | 64% | 10 | 63% | 75% | 50% | 0.66 | 0.53-0.78 |
| TAC1 | 32 | 68% | 7 | 74% | 82% | 57% | 0.74 | 0.60-0.87 |
| HOXA7 | 19 | 40% | 12 | 56% | 61% | 35% | 0.49 | 0.34-0.64 |
| HOXA9 | 19 | 40% | 5 | 81% | 79% | 44% | 0.66 | 0.53-0.79 |
| SOX17 | 36 | 77% | 9 | 67% | 80% | 62% | 0.74 | 0.62-0.87 |
| ZFP42  | 43 | 91% | 21 | 22% | 67% | 60% | 0.66 | 0.52-0.79 |
| All (at least 3 positive) | 43 | 91% | 19 | 30% | 69% | 67% | 0.60 | 0.47-0.74 |
|  |  |  |  |  |  |  |  |  |
|  | **Cancer (n=47)** | **Control (n=25)** |  |  |  |  |
| **Plasma and Urine** | **n** | **Sensitivity** | **n** | **Specificity** | **PPV** | **NPV** | **AUC** | **95% CI** |
| CDO1 | 23 | 48% | 4 | 85% | 85% | 47% | 0.67 | 0.54-0.81 |
| TAC1 | 24 | 50% | 2 | 92% | 92% | 50% | 0.69 | 0.55-0.83 |
| HOXA7 | 16 | 34% | 4 | 85% | 80% | 43% | 0.63 | 0.49-0.77 |
| HOXA9 | 11 | 23% | 1 | 96% | 92% | 41% | 0.72 | 0.60-0.84 |
| SOX17 | 29 | 60% | 3 | 88% | 91% | 55% | 0.76 | 0.63-0.88 |
| ZFP42  | 39 | 83% | 17 | 32% | 70% | 50% | 0.71 | 0.58-0.84 |
| All (at least 3 positive) | 30 | 64% | 2 | 92% | 94% | 58% | 0.68 | 0.55-0.81 |

*Abbreviations*: Area under the curve: AUC; positive predictive value: PPV; negative predictive value: NPV.