Supplemental Online Content

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**eTable 1.** Stage and Grade Criteria of Patients Eligible for Observation and Criteria for Assigning Observation

**eTable 2.** Patient-Level Predictors of Nonoperative Management Among Eligible Patients With Low-Risk Papillary Thyroid Cancer and Small Kidney Masses Using Generalized Estimating Equations With a Compound Symmetry Correlation Structure

This supplemental material has been provided by the authors to give readers additional information about their work.
| Histology | Stage/Size, Grade Criteria | Criteria for Surveillance/Observation |
|-----------|----------------------------|---------------------------------------|
| **Thyroid** |                            |                                       |
| Papillary | cT1a (= <1cm) Excluding: - clinical metastasis M+ - clinical N+ | No surgery and active surveillance |
| **Kidney** |                            |                                       |
| N/A       | cT1a (= <4cm) Excluding: - clinical metastasis M+ - clinical N+ | No surgery and active surveillance |
### eTable 2: Patient-Level Predictors of Nonoperative Management Among Eligible Patients With Low-Risk Papillary Thyroid Cancer and Small Kidney Masses Using Generalized Estimating Equations With a Compound Symmetry Correlation Structure

|                                | Papillary Thyroid Cancer | Solitary Renal Masses |
|--------------------------------|--------------------------|------------------------|
|                                | Coefficient (95%CI)      | P value*               | Odds Ratio (95%CI) | P value*               |
| **Sex**                        |                          |                        |                     |                        |
| Male                           | Ref                      |                        | Ref                 |                        |
| Female                         | -0.26 (-0.51 - -0.02)    | 0.04                   | -0.04 (-0.12-0.05)  | 0.35                   |
| **Age Group**                  |                          |                        |                     |                        |
| ≤ 49                           | Ref                      |                        | Ref                 |                        |
| 50-59                          | 0.03 (-0.26-0.33)        | 0.82                   | 0.40 (0.21-0.60)    | <0.001                 |
| 60-69                          | 0.28 (-0.04-0.61)        | 0.09                   | 0.81 (0.62-0.99)    | <0.001                 |
| 70-79                          | 0.43 (-0.03-0.89)        | 0.07                   | 1.41 (1.21-1.62)    | <0.001                 |
| 80-89                          | 1.81 (1.28-2.35)         | <0.001                 | 2.58 (2.35-2.80)    | <0.001                 |
| **Race**                       |                          |                        |                     |                        |
| White                          | Ref                      |                        | Ref                 |                        |
| Aanphi                         | 0.21 (-0.21-0.62)        | 0.33                   | -0.31 (-0.62-0.01)  | 0.06                   |
| Black                          | -0.10 (-0.54-0.35)       | 0.66                   | 0.41 (0.29-0.53)    | <0.001                 |
| Other                          | 0.40 (-0.08-0.87)        | 0.10                   | -0.10 (-0.40-0.20)  | 0.51                   |
| **Charlson Comorbidity Index** |                          |                        |                     |                        |
| 0                              | Ref                      |                        | Ref                 |                        |
| 1                              | -0.53 (-0.93 - -0.14)    | 0.01                   | -0.28 (-0.40- -0.17) | <0.001                 |
| ≥2                             | -0.39 (-0.98-0.21)       | 0.20                   | -0.18 (-0.30- -0.06) | 0.00                   |
| **Insurance**                  |                          |                        |                     |                        |
| Private                        | Ref                      |                        | Ref                 |                        |
| Medicare                       | 0.02 (-0.33-0.37)        | 0.92                   | 0.31 (0.19-0.43)    | <0.001                 |
| Medicaid                       | 0.04 (-0.38-0.45)        | 0.87                   | 0.54 (0.35-0.74)    | <0.001                 |
| Other                          | 0.27 (-0.22-0.77)        | 0.28                   | 0.35 (0.13-0.56)    | 0.00                   |
| **Family Income**              |                          |                        |                     |                        |
| > $63,000                      | Ref                      |                        | Ref                 |                        |
| $48,000-62,999                 | -0.30 (-0.60-0.01)       | 0.06                   | 0.11 (-0.01-0.24)   | 0.08                   |
| $38,000-47,999                 | -0.09 (-0.42-0.23)       | 0.57                   | 0.16 (0.03-0.30)    | 0.02                   |
| <$38,000                       | -0.59 (-1.03- -0.15)     | 0.01                   | 0.32 (0.17-0.46)    | 0.01                   |
| unknown                        | -0.87 (-5.06-3.33)       | 0.68                   | 0.63 (-0.92-2.19)   | 0.42                   |
| **Distance to Hospital (miles)**|                          |                        |                     |                        |
| 0-12.4                         | Ref                      |                        | Ref                 |                        |
| 12.5-49.9                      | -0.95 (-1.25 - -0.65)    | <0.001                 | -0.23 (-0.33- -0.12) | <0.001                 |
| ≥ 50                           | -0.50 (-0.89-0.10)       | 0.01                   | -0.55 (-0.70 - -0.40) | <0.001                 |
| unknown                        | -0.00 (-4.21-4.21)       | 1.00                   | -0.70 (-2.25-0.86)  | 0.38                   |

*Pearson’s chi-squared test was used to test significance, Wald test hospital level clustering was employed for calculation of standard errors.