**Appendix: Electronic Query Descriptions**

Eligibility:

All pediatric patients less than 22 years old who had ambulatory visits at one of these five sites from October 1, 2010 through September 30, 2015 were eligible for inclusion.

**3 Queries:**

**Query 1: Patients with ICD9 codes for SSI:**

1. Defined as all children with ambulatory surgery (no overnight stay following surgery) who had a subsequent ICD9 Code for Postoperative Infection within 30 days.

1. **ICD9 998.5:** Postoperative infection
2. **ICD9 998.51:** Infected postoperative seroma
3. **ICD9 998.59:** Other postoperative infection
4. **ICD9 Procedure Codes for Soft Tissue Excision:**
   * 1. **ICD9 83.0-83.1**
     2. **ICD9 83.14-83.49**
     3. **ICD9 83.99**
5. **ICD9 Procedure Codes for Skin and Subcutaneous incision and Debridement**
   * 1. **ICD9 86.0-86.22**
     2. **ICD9 86.28**
     3. **ICD9 86.3-86.5**
     4. **ICD9 86.99**
6. **CPT 10180**: Incision and drainage, complex, postoperative wound infection
7. **CPT 10061:** Incision and drainage of abscess [e.g., carbuncle, suppurative hidradenitis, cutaneous or subcutaneous abscess, cyst, furuncle, or paronychia]; complicated or multiple
8. **CPT 10140**: Seroma/hematoma/fluid collection

**Query 2: Patients with visit codes suggesting high risk for ambulatory SSI:**

1. Defined as ambulatory surgery with one or more of the below criteria for high risk inclusion in the 30 days following the ambulatory surgery.
2. Exclude patients already in Cohort 1
3. 20% random sample performed
4. Emergency Department Visit
5. Two or more outpatient visits to any clinics
6. Admission on surgery day +1 through and including day +30
7. Wound Culture ordered
8. CBC ordered (CPT codes 85025, 85027, 85004, 85007, 85008, 85009, 85032, 85048 and 80050)
9. New antibiotic prescription (based on NDC codes)
10. Return to Operating Room

**Query 3: Patients with ambulatory surgery:**

1. Patients who had ambulatory surgery
2. Exclude patients already in Cohort 1or Cohort 2
3. 20% random sample performed