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**Purpose**

The Kaiser Permanente Research Bank (KPRB) is aimed at improving population-level health and healthcare through building a nationwide cohort of 500,000 members, including 440,000 healthy volunteers, 30,000 incident cancer cases, and 30,000 pregnant women. This cohort will serve as a collaborative resource for scientists to conduct precision medicine research on the relationship between patient genetics, demographics, behavioral characteristics, social factors, therapeutic regimens, and health outcomes.

**Methods**

**Study Cohorts**
- **General Cohort** - Adult Kaiser Permanente (KP) members across 7 KP regions are eligible to participate *(Figure 1)*
- **Cancer Cohort** - Incident cancer cases identified within weeks of diagnosis using rapid case ascertainment algorithms in 5 regions
- **Pregnancy Cohort** - Pregnant women identified at their first prenatal visit in KP Northern California

**Recruitment**
- Email, direct mail, and in-clinic invitations
- Posters and flyers to promote volunteer enrollment of KP members who have not yet received an invitation to participate
- Website: researchbank.kaiserpermanente.org

**Consent Includes**
- Collection of baseline research blood (serum and DNA) or buccal cell DNA specimens
- Baseline Survey *(Table 1)*
- Research access to medical record data and clinical specimens
- Re-contacted for future studies

**Results**

- As of March 2017, the KPRB has the following number of participants: General Cohort – 272,262; Cancer Cohort – 2,379; Pregnancy Cohort – 23,697 *(Figure 1)*
- Sample types and data availability are shown in *(Figure 2)*
- The KPRB Cohort is mostly ages ≥ 45 years old, Non-Hispanic White, and Female *(Figure 3)*
- The rapid cancer case ascertainment algorithms have > 80% sensitivity, > 93% specificity, and identify most pathologically confirmed cancer cases within 1 month of diagnosis *(Table 2)*
- The distribution of cancer types enrolled in the cancer cohort is illustrated in *(Figure 4)*
- Work is ongoing to identify incident cancer cases among enrollees of the General Cohort; a projected 8,000 incident cancer cases will occur in the General Cohort through 2018

**Support**

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*Figure 1. Map of KPRB Recruitment Sites*

*Figure 2. KPRB Enrollees with Specimens, Genotype, and Survey Data Available as of March 2017*

*Figure 3. KPRB Demographic Characteristics*

*Figure 4. Distribution of Cancer Types among Cancer Cohort Enrollees*