1. Identify patients with a new diagnosis of venous thromboembolism based on a single ICD-9-CM code, with no prior ICD-9-CM code for VTE within the 12 months before that date (IndexVTE). The first ICD-9 code is considered the date of IndexVTE.
   1. The index date was considered to be the service date (fst\_dt) of the medical claims associated with first VTE diagnosis, otherwise the first Admit date of the patient for vte (if Admit date < service date or there was no service available for that patient in that period for VTE in the medical claims)

Code used for Index date is given here:

  if fst\_dt ne . & admit\_date=.  then index\_dt=fst\_dt;

  else if fst\_dt = . & admit\_date ne . then index\_dt=admit\_date;

  else if fst\_dt ne . & admit\_date ne . then index\_dt=min (admit\_date, fst\_dt);

  else index\_dt=.;

1. Exclude patients under 18 years old
2. Exclude patients without at least 12 months of data prior to Index VTE, but allow up to a 30 day lapse in coverage.
3. Identify patients with a diagnosis of cancer based on a single ICD-9-CM code for cancer (any time prior to IndexVTE).
   1. We define the index cancer date and index cancer type from here: the first cancer diagnosis prior to index VTE.
   2. If multiple cancers are identified, then we use the following algorithm:

stomach + any other cancer --> stomach,

pancreas + any other cancer --> pancreas,

stomach + pancreas --> pancreas,

lung/lymphoma/gynecologic/bladder/testicular cancer + any other non-stomach or pancreas cancer --> the named cancer (either lung, lymphoma, gynecologic, bladder, testicular…essentially ignore the other non stomach/pancreas cancer),

any combination not listed above --> “multiple cancers”.

1. Identify patients with a HCPCS code or NDC code indicating active treatment. This can be anytime ON or AFTER IndexCan but prior to IndexVTE.

See *All\_codes\_ICD9\_NDC\_HCPCS.xlsx* for the following codes:

* 1. HCPCS codes for chemo procedures
  2. NDC codes for chemo drugs

1. Identify patients with an outpatient prescription for an anticoagulant based on NDC codes.  For all patients, an outpatient anticoagulation must be prescribed within 30 days of Index VTE.