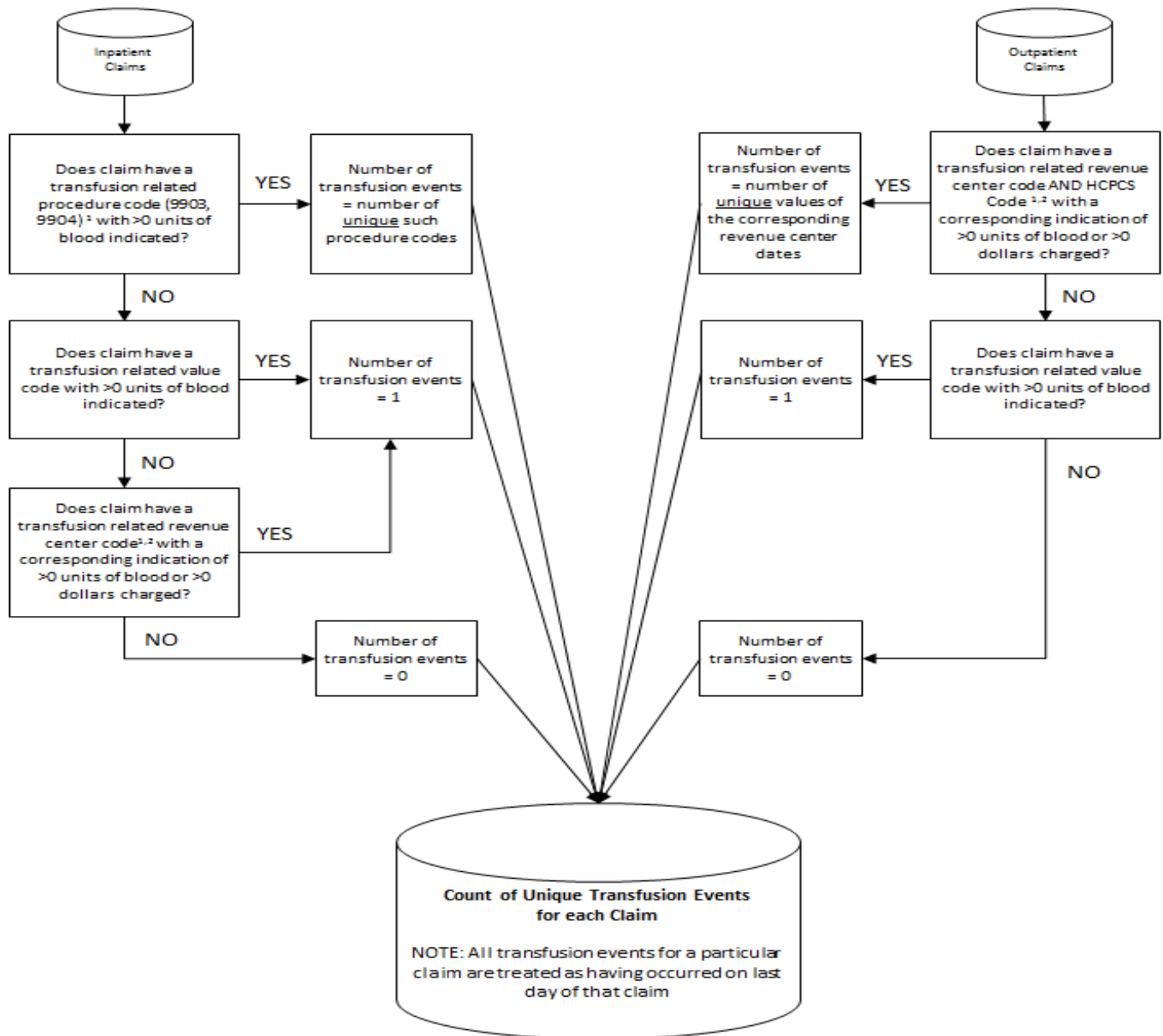


## Numerator Details S.6.

### Determining Transfusion Events Flow Chart

#### Determination of the Number of Unique Transfusion Events for each Claim



<sup>1</sup> See Appendix III for the description of relevant revenue center codes, procedure codes, value codes and HCPCS codes.

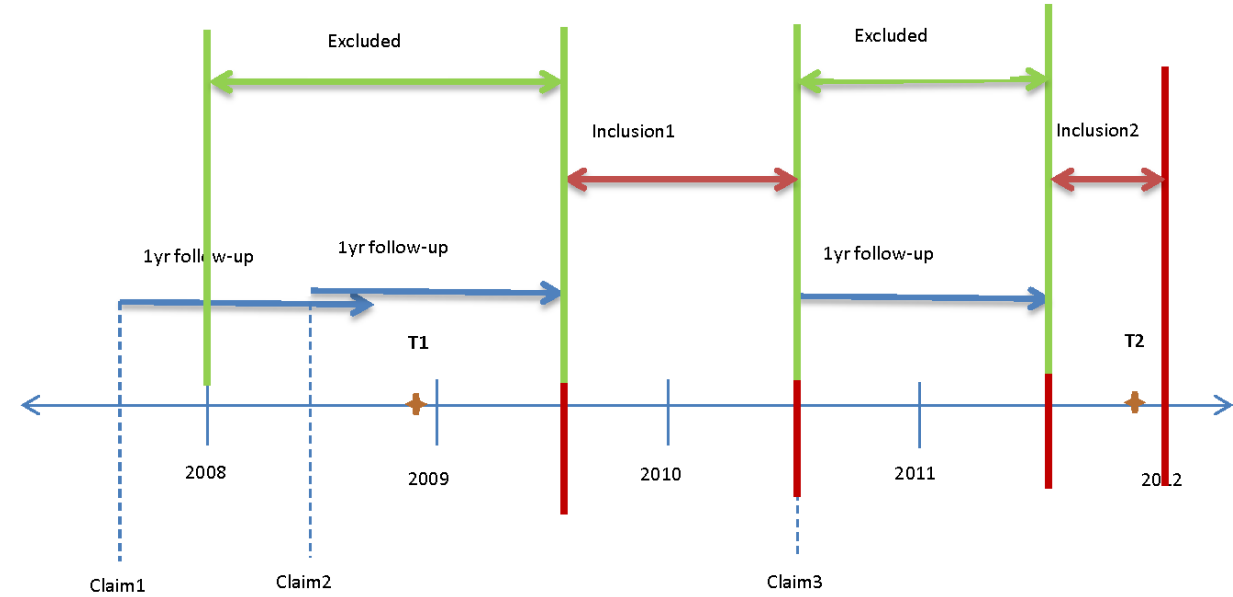
<sup>2</sup> Transfusion related revenue center codes: 0380, 0381, 0382, 0389, 0390, 0391, 0392, 0399

Transfusion related HCPCS codes: P9010, P9011, P9016, P9021, P9022, P9038, P9039, P9040, P9051, P9054, P9056, P9057, P9058

# Denominator Exclusion Details

Figure referenced in submission form:

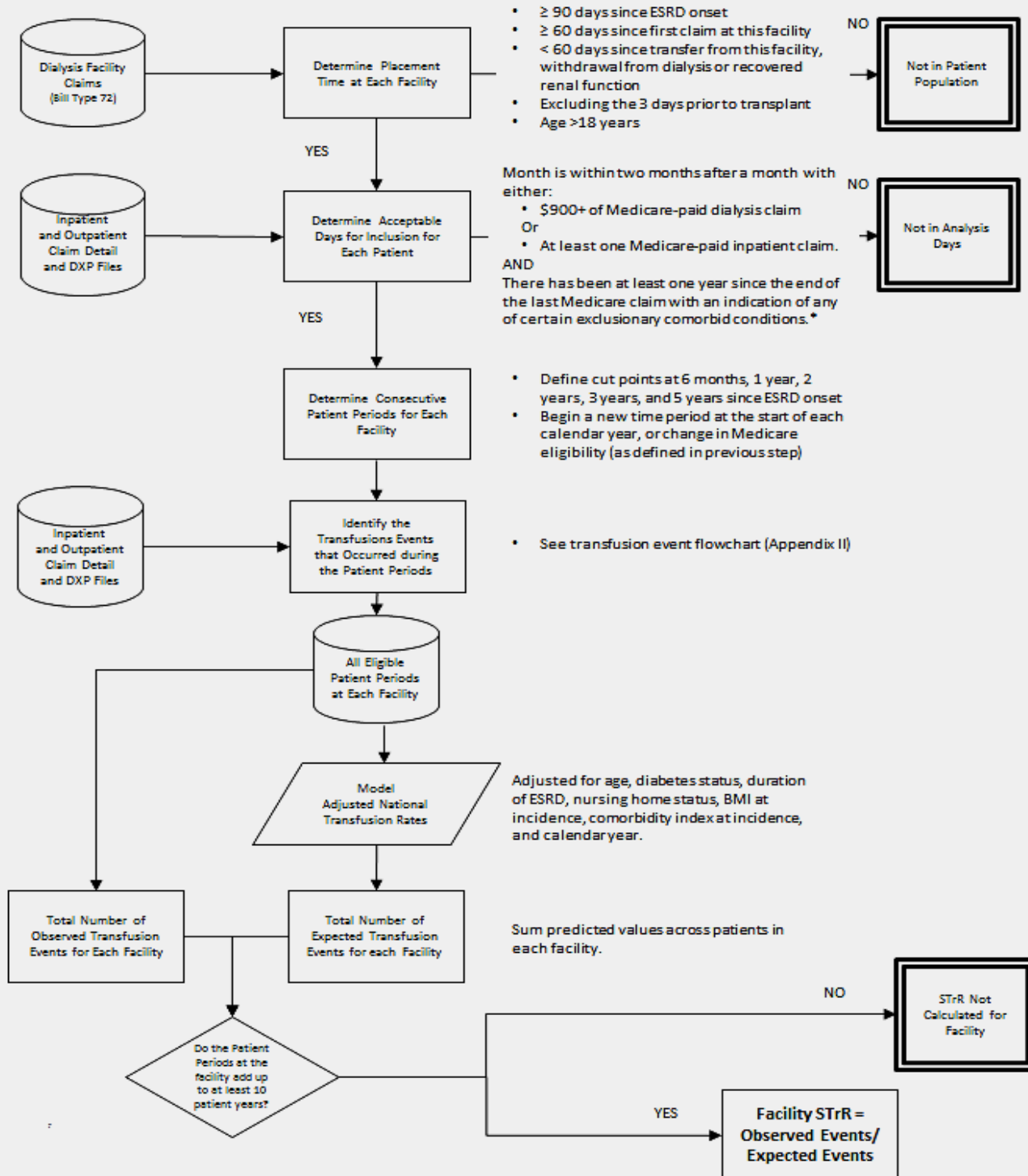
**Figure1:** Description of Inclusion and Exclusion periods of a patient



## Calculation Algorithm/Measure Logic Diagram URL or Attachment S.19.

### Measure Calculation Flow Chart

**Standardized Transfusion Ratio:** The ratio of observed to expected transfusion events in adult dialysis patients  
**Numerator Statement:** Number of transfusion events observed in adult dialysis patients  
**Denominator Statement:** Number of transfusion events expected based on the national rate for patients with similar characteristics



\* Exclusionary comorbid conditions: hemolytic and aplastic anemia, solid organ cancer (breast, prostate, lung, digestive tract and others), lymphoma, carcinoma in situ, coagulation disorders, multiple myeloma, myelodysplastic syndrome and myelofibrosis, leukemia, head and neck cancer, other cancers (connective tissue, skin, and others), metastatic cancer, sickle cell anemia

## 1b.2. Provide performance scores on the measure as specified ( current and over time ) at the specified level of analysis.

The table below shows the distribution of STeR using Medicare claims data for 2009-2012.

				Facility percentile				
Year	# of facilities	Mean STeR	Standard Error	10th	25th	50th	75th	90th
2009	5478	1.060	1.384	0.380	0.626	0.911	1.256	1.713
2010	5655	1.031	0.952	0.370	0.605	0.898	1.272	1.741
2011	5793	1.058	1.672	0.368	0.622	0.915	1.297	1.741
2012	5899	1.045	0.765	0.398	0.635	0.913	1.287	1.760

The table below shows the number of facilities, patients, total count of transfusions and total patient years at risk for each year. Also, we calculate unadjusted or raw transfusion rates per year (defined as total transfusions divided by total patient years at risk).

Year	# facilities	# of Patients	Total transfusions	Total Patients Years at risk	Raw Transfusion Rate per 100 patient years at risk*
2009	5478	377957	92767	215069.1	43.13
2010	5655	395183	93520	223699.0	41.80
2011	5793	405104	102547	227598.8	45.06
2012	5899	424563	108126	233794.9	46.25

\*This analysis includes all facilities for the given year.

## 1b.4. Provide disparities data from the measure as specified ( current and over time ) by population group

The table below shows the parameter estimates for the race, sex and ethnicity variables based on a model that included these variables along with other covariates.

Parameter	Estimate	Standard Error	P value
Females	0.1276	0.0033	<.0001
Native American*	-0.1409	0.0175	<.0001
Asian*	-0.2457	0.0103	<.0001
Black*	-0.0924	0.0045	<.0001
Other Race*	-0.0202	0.0190	0.2879
Hispanic #	-0.1945	0.0064	<.0001

\*White as reference

# Non-Hispanic as reference