

Hip Fracture Registry



Introduction

The Hip Fracture Registry tracks patients that experienced a primary hip fracture event. This report provides an overview of the captured Hip Fracture Registry population and surgical outcomes from 1/1/2009 to 12/31/2017 in NCAL, SCAL, NW, and HI.

Volume

Surgical data and volume is sourced electronically through KP HealthConnect and administrative databases. Using diagnostic and procedure codes, the Registry has captured a total volume of 45,808 hip fracture cases. The Registry includes revision cases only after primary fracture treatment was done at a Kaiser Permanente hospital or contract facility. Overall Registry volume includes 44,221 primary hip fractures and 1,587 revision cases.

Demographics and Diagnosis

The Registry population reflects older patients with an average age of 83 years, majority female (69%), and an average BMI of 24 kg/m².

Surgical Technique

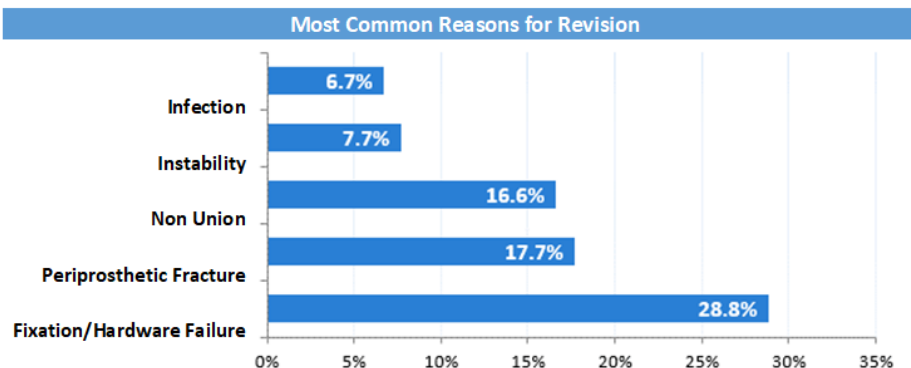
The majority of cases were treated with fixation procedures (62%). Program wide, other prevalent procedure types include 33% hemiarthroplasty, and less than 3% of patients treated with THA procedures.

Outcomes

The following data elements and overall complication rates are tabulated by the registry. Infection, Venous Thromboembolism, and Revisions are confirmed via chart review by clinical content experts. Overall average length of hospital stay for primary hip fracture is 5 days.

Hip Fracture							
	Length of Stay (Mean Days) ¹	Deep Infection ¹	DVT ¹	PE ¹	90-Day Mortality	Revision Rate (unadjusted) ¹	Revision Density ¹
ALL	4.8	0.4%	1.5%	1.1%	11.0%	3.6%	1.46 (1.39 , 1.54)
HI	7.5	0.2%	0.8%	0.9%	8.3%	3.3%	1.25 (0.9 , 1.73)
NCAL	4.5	0.4%	1.3%	1.0%	11.6%	3.6%	1.49 (1.39 , 1.6)
NW	5.2	0.8%	1.9%	1.3%	11.5%	3.1%	1.32 (1.04 , 1.67)
SCAL	4.9	0.4%	1.8%	1.3%	10.4%	3.6%	1.46 (1.35 , 1.57)

1. Primary cases only



Hip Fracture		
	Time To Surgery (Median Hours)	Time To Surgery Over 48 Hours (Percent)
ALL	10.2%	21.5
HI	7.3%	20.3
NCAL	9.5%	20.9
NW	10.8%	22.5
SCAL	11.2%	22.1