Supplemental Digital Content 3. Summary of Study Characteristics Across the 29 Included Studies

Citation	Data Source	Geographic Location	Type of Surgery	Sample Size	Mean Age[a]	% Female	% Race/ Ethnicity[b]	Surgical Location	Factors Examined
Abd El Aziz et al. (2020)	NSQIP (2012-2018)	US	Elective	1,199	57[a]	65.1	71.2 White, 18.1 Black, 11.0 Other, 8.8 Unknown, 6.4 Hispanic, 0.8 Asian	Colon	Gender/sex, age, race/ethnicity, surgical location, co-morbidities
Addae et al. (2017)	NIS (2009-2012)	US	Elective	261,886	67[a]	48.90	78.6 White, 9.1 Black, 6.4 Hispanic, 5.9 Other	Colorectal	Income status, gender/sex, age, race/ethnicity, insurance status, co-morbidities, hospital size, year, surgical location
Alharthi et al. (2020)	NIS (2008-2014)	US	Elective	197,053	58.30	52.60	81.5 White, 5.7 Black, 8.4 Hispanic, 1.7 Asian/Pacific Islander, 0.4 Native American, 2.3 Other	Colon	Gender/sex, age, race/ethnicity, insurance status, co-morbidities, location, hospital type
Bell et al. (2019)	CSSANZ (2019)	Australia and New Zealand	Unspecified	72		8.50		Rectal	Gender/sex, co-morbidities
Buonpane et al. (2017)	NCDB (2010-2012)	US	Unspecified	23,857		39.82	8.69 Black, 5.7 Other, 85.61 White	Rectal	Gender/sex, age, race/ethnicity, insurance status, co-morbidities,

Citation	Data Source	Geographic Location	Type of Surgery	Sample Size	Mean Age[a]	% Female	% Race/Ethnicity[b]	Surgical Location	Factors Examined
									location, hospital type
Chung et al. (2021)	Premier Hospital Database (2001-2015)	US	Unspecified	643,052	62.50	53.90	9.5 Black, 2.7 Hispanic, 15.9 other, 71.9 White	Colorectal	Gender/sex, age, race/ethnicity, insurance status, co-morbidities, location, hospital size, marital size
Concors et al. (2019)	NCDB (2010-2015)	US	Unspecified	8,107		37.10	81.2 White, 6.8 Black, 6.1 Hispanic, 5.9 Other	Rectal	Income status, gender/sex, age, race/ethnicity, insurance status, co-morbidities, hospital type, location
Damle et al. (2016)	UHC (2008-2011)	US	Elective and Emergent	82,474	57[a]	50.00	84.47 White, 13.18 Black, 2.35 Asian	Colorectal	Race/Ethnicity
Fantus et al. (2018)	NCDB (2010-2013)	US	Unspecified	5,837				Colorectal	Income status, socioeconomic status, hospital type, co-morbidities
Fernandez et al. (2013)	MED-VAMC Colorectal Cancer Database (2002-2012)	Texas, US	Unspecified	72		3.00	71 White, 6 non-Black Hispanic, 21 African American, 3 Other	Rectal	Gender/sex, age, race/ethnicity, co-morbidities
Gabriel et al. (2016)	NCDB (2004-2011)	US	Elective and Emergent	8,633		47.10	75.2 White, 13.1 Black, 0.3 Native American,	Rectal	Income status, insurance status, hospital type, socioeconomic

Citation	Data Source	Geographic Location	Type of Surgery	Sample Size	Mean Age[a]	% Female	% Race/ Ethnicity[b]	Surgical Location	Factors Examined
							4.7 Asian, 5.7 Hispanic, 0.9 Other		status, age, gender/sex, race/ethnicity, location, co-morbidities
Gabriel Lee et al. (2017)	NIS (2002-2012)	US	Elective and Emergent	1,265,684	67.96	49.64		Colorectal	Location, hospital type, co-morbidites, type of admission
Halabi et al. (2013)	NIS (2009-2010)	US	Elective	128,288	62[a]	51.50	2.35 White, 6.93 Black, 5.49 Hispanic, 1.61 Asian or Pacific Islander, 0.32 Native American, 2.01 Other	Colorectal	Gender/sex, age, race/ethnicity, insurance status, co-morbidities
Konstantinidis et al. (2020)	NCDB (2010-2014)	US	Unspecified	260,669 & 52,239	68[a]	51.55 & 39.43	75.74 Caucasian, 12.20 African American, 12.05 Other & 77.48 Caucasian, 8.25 African American, 14.27 Other	Colorectal	Income status, gender/sex, age, race/ethnicities, insurance status, co-morbidities, hospital type
Lo et al. (2020)	NCDB (2010-2016)	US	Elective	324,784	68.14	50.71	83.56 White, 10.33 Black, 5.32 Other,	Colorectal	Income status, gender/sex, age, race/ethnicities, insurance status,

Citation	Data Source	Geographic Location	Type of Surgery	Sample Size	Mean Age[a]	% Female	% Race/ Ethnicity[b]	Surgical Location	Factors Examined
							0.78 Unknown		location, hospital type, location, socioeconomic status, co-morbidities
Miller et al. (2016)	NSQIP (2013)	US	Elective	11,920	60.19	51.94		Colon	Gender/sex, ASA class, co-morbidities
Mirkin et al. (2018)	NCDB (2010-2012)	US	Unspecified	15,112		50.09	77.03 White (non-Hispanic), 10.49 Black (non-Hispanic), 3.82 Other (non-Hispanic), 8.75 Hispanic	Colon	Income status, gender/sex, age, race/ethnicity, insurance status, co-morbidities, location, hospital type
Moghadamyeg et al. (2015)	NIS (2009-2012)	US	Elective	13.622		39.57	67.86 White, 8.08 Black, 6.56 Hispanic, 2.53 Asian, 2.7 Other	Colon	Gender/sex, age, race/ethnicity, co-morbidities, volume, location, hospital type
Ofshteyn et al. (2020)	NCDB (2010-2014)	US	Unspecified	33,503		38.00	78.5 White, 7.8 Black, 13.7 Other	Rectal	Income status, socioeconomic status, gender/sex, age, race/ethnicity, insurance status, location, volume, hospital type, co-morbidities

Citation	Data Source	Geographic Location	Type of Surgery	Sample Size	Mean Age[a]	% Female	% Race/ Ethnicity[b]	Surgical Location	Factors Examined
Osagiede et al. (2019)	Florida Inpatient Discharge Dataset (2013-2015)	Florida, US	Elective	10,513	68.40	48.10	83.8 White, 9.5 African American or Black, 6.7 Other, 15.0 Hispanic or Latino, 85.0 Non-Hispanic or Latino	Colorectal	Gender/sex, age, race/ethnicity, insurance status, co-morbidities, location
Panteleimonities et al. (2018)		United Kingdom, Portugal	Elective and Emergent	1,386		45.96		Colorectal	Co-morbidities
Parascandola et al. (2020)	NCDB (2010-2016)	US	Unspecified	24,719	61.18	39.10	85.65 White, 7.49 Black, 6.12 Other, 0.74 Unknown	Rectal	Age, income status, gender/sex, race/ethnicity, insurance status, co-morbidities, hospital type, socioeconomic status
Sastow et al. (2019)	SIDs (2009-2014)	California, Florida, New York and Kentucky US	Elective and Emergent	444,877	61.40	51.80	70.2 White, 10.6 Black, 11.1 Hispanic, 6.5 Other, 1.5 Missing	Colon	Insurance status
Shootman et al. (2017)	NSQIP(2013-2015)	US	Elective	13,077		50.40	1.1 White, 10.9 African American, 4.8 Other, 13.3 Unknown	Colon	Age, race/ethnicity, co-morbidities

Citation	Data Source	Geographic Location	Type of Surgery	Sample Size	Mean Age[a]	% Female	% Race/ Ethnicity[b]	Surgical Location	Factors Examined
Simon et al. (2021)	NCDB (2010-2017)	US	Elective	31,910	71[a]	39.29	84.55 Caucasian, 6.84 Black, 3.62 Asian/Indian, 4.99 Hispanic, 95.01 Non-Hispanic	Rectal	Income status, gender/sex, race/ethnicity, insurance status, co-morbidities, location, hospital type, age, location, volume
Spaulding et al. (2021)	Florida Inpatient Discharge Dataset, American Hospital Association, Medicare Hospital Cost Report, Area Health Resource File, and the Florida Health Community Health Assessment Resource Tool Set (2013– 2015)	Florida, US	Unspecified	159				Colorectal	Income status, socioeconomic status, race/ethnicity, insurance status, co-morbidities, hospital type, population size, average total margin (3 year), average operating margin (3 year)
Sujatha-Bhaskar et al. (2017)	NCDB (2010-2014)	US	Elective	6,313	58[a]	38.43	6.84 Black, 87.14	Rectal	Gender/sex, race/ethnicity,

Citation	Data Source	Geographic Location	Type of Surgery	Sample Size	Mean Age[a]	% Female	% Race/ Ethnicity[b]	Surgical Location	Factors Examined
							Caucasian, 6.23 Other		insurance status, co-morbidities, hospital type, age
Villano et al. (2020)	NCDB (2010-2015)	US	Elective and Emergent	234,935	67.01	49.70		Colorectal	Location, volume, hospital type, grade, co-morbidities
Yeo et al. (2016)	NIS (2009-2012)	US	Elective	509,029	62.50	54.40	80.6 White, 19.4 Other	Colon	Gender/sex, age, race/ethnicity, insurance status, location, volume, hospital type, age, co-morbidities

Abbreviations: NSQIP = National Quality Improvement Program database. NIS = National Inpatient Sample. CCANZ = Colorectal Surgical Society of Australia and New Zealand. NCDB = National Cancer Database. UHC = University Health System Consortium. SIDs = State Inpatient Databases.
[a]Age with this superscript denote that a median age was used instead of the mean age. [b]The labeling of racial/ethnic groups from each study was preserved.