

Supplementary Table 1. ICD-10 codes and AIHW procedural codes for gallbladder disease and procedures

AIHW procedural code	ICD-10 diagnosis code
30443-00 - Cholecystectomy	K80 - Cholelithiasis
30445-00 - Laparoscopic cholecystectomy	K81 - Cholecystitis
30446-00 - Laparoscopic cholecystectomy proceeding to open cholecystectomy	K82 - Other disorders of the gallbladder
30448-00 - Laparoscopic cholecystectomy with removal of common bile duct calculus via cystic duct	
30449-00 - Laparoscopic cholecystectomy with removal of common bile duct calculus via laparoscopic choledochotomy	
30454-01 - Cholecystectomy with choledochotomy	
30455-00 - Cholecystectomy with choledochotomy and biliary intestinal anastomosis	

AIHW, Australian Institute of Health and Welfare; ICD-10, International Classification of Disease 10th Edition.

Supplementary Table 2. Symptomatic gallbladder-associated hospital admission and operative intervention rates in Australia (Aus) and New Zealand (NZ) (per 100,000 age-standardised population ≥ 15 years old)

Year	Hospital admission data								Operative data					
	K80 Aus	K80 NZ	K81 Aus	K81 NZ	K82 Aus	K82 NZ	K82 NZ Public	K82 NZ Private	Open Aus	Lap Aus	All Aus	All NZ	Public NZ	Private NZ
2000–2001	364.4		60.1		6				29.0	259.7	288.7			
2001–2002	357.7		58.5		5.6				27.3	256.2	283.5			
2002–2003	356.6		58.5		6.1				25.4	253.3	278.8			
2003–2004	352.6		57.4		6.3				22.8	254.8	277.6			
2004–2005	351.7	221.5	56.5	26.70	7	41.9	6.27	36.11	21.8	254.3	276.2	174.5	133.14	45.98
2005–2006	346.5	213.5	57.2	26.30	7.2	35.0	5.27	30.48	20.2	252.5	272.7	161.8	121.71	44.12
2006–2007	344	220.2	59.2	28.00	7.2	39.3	11.02	28.88	19.6	253.2	272.9	168.1	132.96	39.36
2007–2008	336.2	212.2	56.1	29.60	6.9	35.1	5.24	30.49	16.9	251.5	268.4	162.5	130.94	35.57
2008–2009	330.8	219.7	58.7	40.60	5.4	35.0	5.39	30.45	16.1	249.4	265.5	175.2	144.24	35.53
2009–2010	349.1	239.6	49.7	28.80	5.7	32.5	5.46	27.75	16.5	256.3	272.7	179	150.27	33.56
2010–2011	351.8	241.4	49.9	28.70	5.5	31.3	3.64	28.35	15.1	261.1	276.1	175	145.72	34.41
2011–2012	348.4	258.7	48.6	27.80		29.9	3.31	27.3	15.3	258.1	273.5	180.5	153.78	31.51
2012–2013	340	253.6	48	26.80		31.8	4	28.54	13.3	261.0	274.3	178	150.57	32.50
2013–2014	344.8	256.9	45.2	27.40		36.0	4.09	32.8	12.3	262.0	274.3	192.5	160.58	37.32
2014–2015	340.9	256.0	43.8	29.90		33.5	3.84	30.27	12.1	258.4	270.6	189.2	160.27	33.89
2015–2016	344.3	246.4	44	35.30		36.5	5.28	32.16	11.7	274.2	285.9	187.1	155.04	36.41
2016–2017	340.2	244.5	43.6	32.60		34.9	5.06	30.55	11.3	269.7	280.9	186.6	155.60	34.97
2017–2018	332.4	245.0	41.9	31.8	6.9	36.0	5.04	31.56	10.7	266.5	277.2	185.8	153.93	35.82
2018–2019	328.6	242.9	40.6	32.40		36.0	5.44	31.02	10.8	266.0	276.9	186.4	154.46	35.43

Codes: K80, cholelithiasis; K81, cholecystitis; K82, other diseases of the gallbladder.

Open, open cholecystectomy; Lap, laparoscopic cholecystectomy.