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Supplemental Table 1. Comparison of patient characteristics between 13,118 patients with complete data and 11,226 with incomplete data in the ACS-NSQIP database.

<u>Variable</u>	<u>Complete</u>	<u>Incomplete</u>	<u>P-value</u>
Age*	66.1 ± 11	66.0 ± 12	0.66
Women†	7,518 (57.3%)	6,387 (57.0%)	0.51
Total Hip†	5,260 (40.1%)	4,616 (41.1%)	0.11
Heart Failure†	134 (1.0%)	66 (0.6%)	<0.01‡
Pulmonary†	1,410 (10.8%)	1,001 (8.9%)	<0.01‡
Infection†	1,668 (12.7%)	1,278 (11.4%)	<0.01‡

*The values are given as the mean and standard deviation. †The values are given as the number with percentage in parentheses.

‡Significant at $p < 0.05$.

Supplemental Table 2. ICD10-PCS and ICD10-CM Codes used for defining the CARDE-B validation sample and variables in the NIS.

<u>Femoral Revision</u>	<u>Acetabular Removal</u>	<u>Knee Revision</u>	<u>CARDE-B Score</u>
0SP.B0JZ	0SP.B0JZ	0SP.D0JZ	Congestive Heart Failure: I50.00 - I50.99
0SP.B09Z	0SP.B09Z	0SP.D09Z	Dialysis: N18.6 or Z99.2
0SP.0JZ	0SP.90JZ	0SP.C0JZ	Malnutrition: E40.00 - E46.9
0SP.909Z	0SP.909Z	0SP.C09Z	Dependent: Z74.00 - Z74.99
			Body Mass Index <25 kg/m ² : Z68.10 - Z68.25