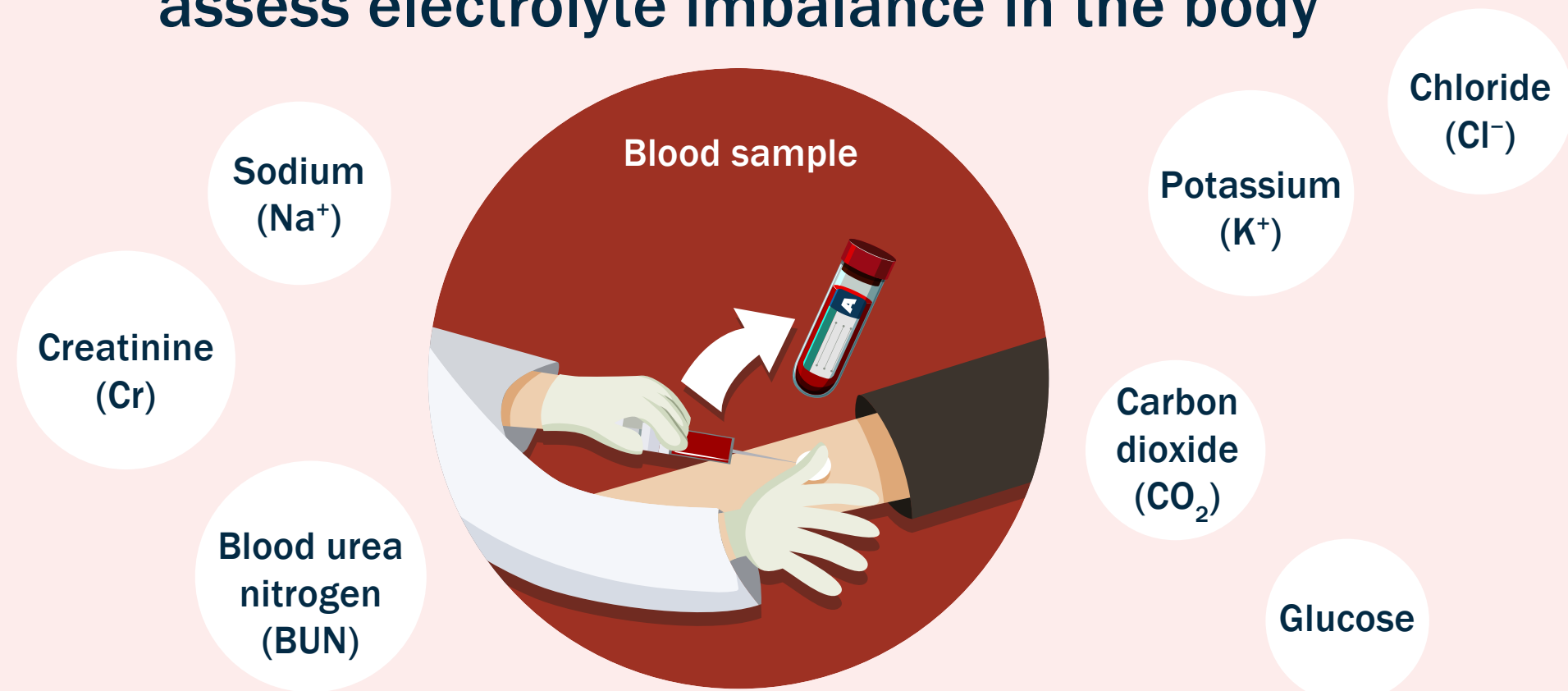


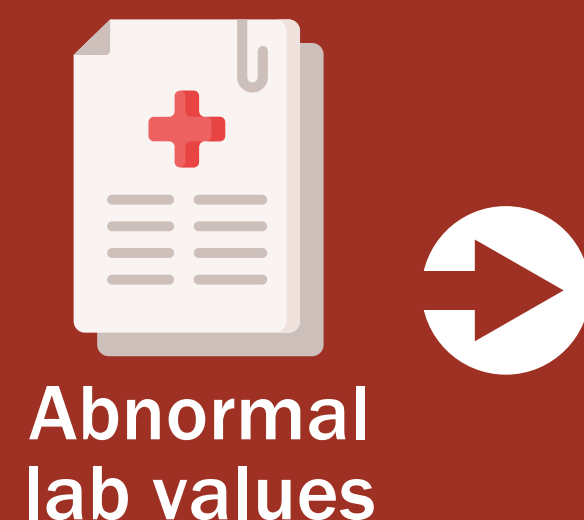
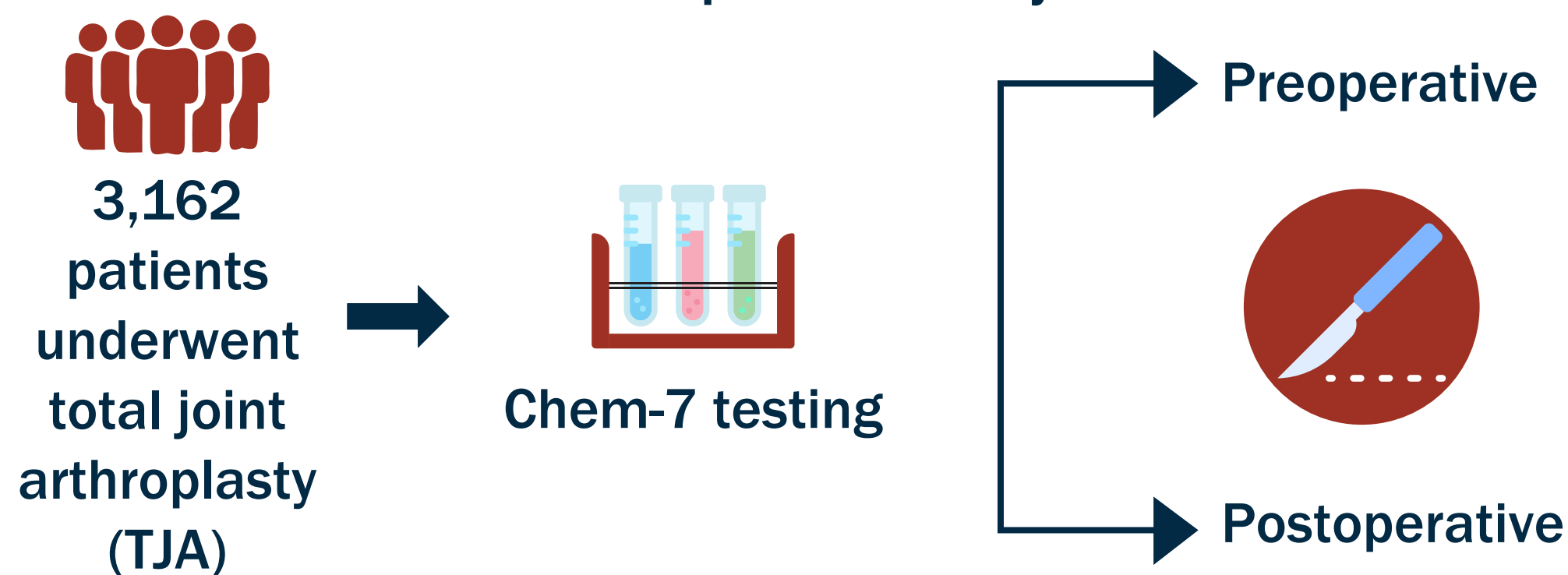
Need for Postoperative Chemistry Panels in Total Joint Arthroplasty Patients

Chemistry-7 (Chem-7) panels are routinely performed to assess electrolyte imbalance in the body



However, whether such panels are helpful in short-stay orthopaedic procedures is not known

Retrospective study



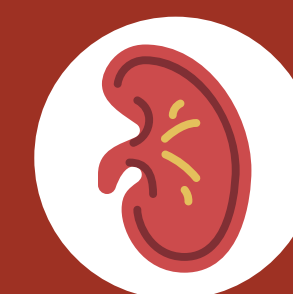
Electrolytes	Preoperative	Postoperative
Na ⁺	3.4%	25.6%
K ⁺	7.4%	9.7%
BUN	15.8%	55.6%
Cr	26.4%	27.9%

Preoperative Na⁺, K⁺, and Cr predict → abnormality in postoperative test

⚠ Risk factors associated with abnormal postoperative test results



Bilateral TJA → abnormal postoperative Na⁺



Renal disease → abnormal postoperative Cr



Patients taking loop diuretics → abnormal postoperative K⁺



Postoperative chem-7 testing is recommended only in patients with certain risk factors who are admitted to hospitals for short-stay procedures, with Na⁺, K⁺, and Cr as the most important electrolytes

Routine Postoperative Chemistry Panels Are Not Necessary for Most Total Joint Arthroplasty Patients

Tischler et al. (2021) | DOI:10.2106/JBJS.20.01530

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