WTA Algorithm for the Diagnosis and Management of Blunt Cerebrovascular Injury

A

Trauma with Risk Factors for BCVI

Yes

High resolution CTA Neck/Head

Negotiable

Repeat imaging

Stop Algorithm

BCVI on imaging

Positive

Grade Injury

Grade IV

Antiplatelet monotherapy

Vertebral

Internal carotid

Common carotid

Signs/symptoms of stroke

Consider dual antiplatelet therapy

Endovascular intervention or open if surgically accessible

E

Increase MAP to augment cerebral perfusion
Consider dual antiplatelet therapy
*Consider interventional consultation

No

Repeat high resolution CTA Neck in 7-10 days

Injury worsening?

D

Yes

New signs/symptoms of stroke

Repeat imaging Dual antiplatelet therapy

No

G

Antiplatelet monotherapy

Consider dual antiplatelet therapy

Injury worsening?

No

F

Dual antiplatelet therapy for 3 months post-sent
*antiplatelet monotherapy for other interventions

Yes

Injury worsening?

Stop antiplatelet therapy

Yes

Consider endovascular intervention or open repair if surgically accessible

No

E