

## **Supplementary Material**

### **Web of Science Search Query**

TS=((("Mangled Extremity Severity Score" OR "MESS" OR "mangled extremity severity" OR "extremity severity score" OR "MESS score") AND (("amputation" OR "limb salvage" OR "limb loss" OR "salvage" OR "reconstruction" OR "limb preservation") OR ("lower extremity" OR "lower limb" OR "leg injury" OR "tibial fracture" OR "open fracture" OR "severe extremity trauma")))).

TS=("diagnostic accuracy" OR "sensitivity" OR "specificity" OR "ROC" OR "AUC" OR "predictive value") AND TS=("MESS" OR "Mangled Extremity Severity Score") AND TS=("amputation" OR "salvage" OR "lower limb" OR "lower extremity")

### **SCOPUS Search Strategy**

TITLE-ABS-KEY(("Mangled Extremity Severity Score" OR "MESS" OR "mangled extremity severity" OR "extremity severity score" OR "MESS score") AND (("amputation" OR "limb salvage" OR "limb loss" OR "salvage" OR "reconstruction" OR "limb preservation") OR ("lower extremity" OR "lower limb" OR "leg injury" OR "tibial fracture" OR "open fracture" OR "severe extremity trauma")))

TITLE-ABS-KEY("diagnostic accuracy" OR "sensitivity" OR "specificity" OR "ROC" OR "AUC" OR "predictive value") AND TITLE-ABS-KEY("MESS" OR "Mangled Extremity Severity Score") AND TITLE-ABS-KEY("amputation" OR "salvage" OR "lower limb" OR "lower extremity") AND PUBYEAR > 2010 AND PUBYEAR < 2025

### **PubMed Search Strategy**

("Mangled Extremity Severity Score"[Title/Abstract] OR "MESS score"[Title/Abstract] OR "MESS"[Title/Abstract] OR "mangled extremity severity"[Title/Abstract] OR "extremity severity score"[Title/Abstract]) AND ("amputation"[Title/Abstract] OR "limb salvage"[Title/Abstract] OR "limb loss"[Title/Abstract] OR "salvage"[Title/Abstract] OR "reconstruction"[Title/Abstract])

("diagnostic accuracy" OR "sensitivity" OR "specificity" OR "ROC" OR "AUC" OR "predictive value") AND ("MESS" OR "Mangled Extremity Severity Score") AND ("amputation" OR "salvage" OR "lower limb" OR "lower extremity")

### **Lens.org Search Strategy**

(title:("Mangled Extremity Severity Score" OR "MESS" OR "mangled extremity severity") OR abstract:("Mangled Extremity Severity Score" OR "MESS score")) AND ("amputation" OR "limb salvage" OR "salvage" OR "lower extremity" OR "trauma")

title:("MESS" OR "Mangled Extremity Severity Score") AND ("diagnostic accuracy" OR "sensitivity" OR "specificity" OR "ROC" OR "AUC") AND (amputation OR "limb salvage").