

Injury to hands as result of industrial accident - Amputation of fingers, cuts/abrasions to other hand after patient grabbed for injured hand when it became trapped.

Scenario	The ERT is dispatched to assist a worker who caught his hand in an automated shear. You arrive to find the employee holding his left hand tight to body, and in a very agitated state. His exposed right hand shows several seemingly deep cuts and abrasions and there is substantial bleeding evident.	
Equipment	BSI Equipment Run Sheet O ₂ Tank w/Liter flow regulator Non Rebreather Mask BP Cuff	Stethoscope Pen Light Cravats for sling Bandaging/Trauma dressings Ice/cold packs, container

Your Actions		Findings - Conscious
Scene Size-up:	• Scene Safety	Check overhead for loose equipment; check floor for tripping hazards, electrical wires, energized tools, spilled chemicals, operating tools or machines...
	• BSI	Minimum of gloves – due to amount of blood, may consider gown, face shield
	• Mechanism of Injury/Illness	Hands injured in industrial machine accident
	• Additional Resources (beyond normal response)	YES - Qualified personnel to shut down equipment or processes safely and extricate patient if required.
	• Number of patients	1
	• Advanced care required	Start them, can always recall – if uncontrolled bleeding/shock would need them
Initial Assessment	• General Impression/Chief Complaint	Adult, conscious and oriented, injury to both hands, very upset and agitated – not wanting to sit down. Need to calm patient so you can evaluate injury
	• Assess Mental Status (AVPU) (PPT)	Alert and oriented
	• Assess airway	OK – patient is speaking, cursing, etc.
	• Assess breathing/interventions	OK - Rapid, but as expected. O ₂ by non-rebreather mask at 15 lpm should be applied ASAP
	• Assess circulation	Substantial blood loss – on equipment, hands, clothing and floor – or the appearance of it
	• Determine priority	High (at this time – may reconsider after assessment)

<p>Trauma Patient</p> <p>Not Significant Mechanism of Injury</p> <p>Focused History / Physical Exam</p>	<ul style="list-style-type: none"> • Reconsider the MOI 	Not significant – localized injury to extremity	
	<ul style="list-style-type: none"> • Determine Chief Complaint 	Find index and middle fingers of left hand were severed/separated near first knuckle, right hand sustained cuts, minor avulsion and abrasions when patient reached into machine when his left hand became injured. Injury occurred when patient reached into machine before it was fully stopped.	
	<ul style="list-style-type: none"> • Focused physical exam 	Examine left hand – control bleeding with direct pressure using bulky dressing and elevation. Bleeding controlled easily, little blood loss. Examine right hand – lacerations, avulsion and abrasions found - bleeding steadily, but controlled with direct pressure and elevation, bandaged. Primary source of blood found. Examine arm/elbow/shoulder for additional injuries (D.O.T.S.)	
	<ul style="list-style-type: none"> • Obtain Baseline Vitals BP, Pulse, Respr, Pupil, Skin 	B/P: 138/96 Pulse: 104 Resp: 18	Pupils: PEARL Skin: Warm and moist - sweaty
	<p>From Patient:</p> <ul style="list-style-type: none"> • Obtain a SAMPLE history 	Signs and Symptoms: pain, bleeding, agitated Allergies: Deny Medications: Deny Pertinent Past history: Deny Last Oral Intake: Lunch about 1 hrs ago Events leading up to injury or illness: Shut off lath, reached in before it completely stopped rotating	
	<ul style="list-style-type: none"> • Load/prepare for Transport 	Position on stretcher in position of comfort Locate amputated fingers in shear's bed (NOTE: <u>Qualified</u> personnel must assure equipment is shut down!!) Wrap fingers in several layers of dressing material or bulky dressing, put in plastic bag or container, and place container ON not "in" ice or cold packs for transport – transport with patient if possible, but do not delay transport to locate severed parts	
<p>Detailed Physical Exam</p>	<ul style="list-style-type: none"> • Repeat Initial Assessment 	Calming down, not as agitated - A & O	
	<ul style="list-style-type: none"> • Complete All Critical Interventions, 	O ₂ in place, bleeding controlled, patient controlled	
	<ul style="list-style-type: none"> • Re-Do Hands On Assessment 	No new findings	
	<ul style="list-style-type: none"> • Re-assess Vitals BP, Pulse, Respr, Pupil, Skin 	B/P: 126/90 Pulse: 88 Resp: 14	Pupils: PEARL Skin: Warm and dry(er) (more normal)
<p>Ongoing Assessment</p>	<ul style="list-style-type: none"> • Repeat Initial assessment 	No new findings	
	<ul style="list-style-type: none"> • Reassess Vitals 	No significant change	
	<ul style="list-style-type: none"> • Repeat Physical Assessment 	No new findings	
	<ul style="list-style-type: none"> • Check Interventions 	O ₂ -OK, Airway-OK, bleeding controlled, severed parts properly packaged.	