

International Wound Infection Institute (IWII) Wound Infection in Clinical Practice. Wounds International. 2022.

Table 4: Wound infection assessment in specific wound types	
Type of wounds	Specific considerations
Surgical site	• Daily visual wound assessment (where possible depending on the type of wound dressing applied following
infection	surgery) and vital sign assessment. ¹
	 Early indicators of wound infection:
	 Increased wound-edge distance (lack of approximation).
	 Increased wound exudate.¹
	 Increased heart rate.¹
	 Increased morning tympanic temperature.¹
	 Increasing pain.
	 Wound edge colour (e.g., redness) and induration are not reliable indicators of wound infection.¹
Pressure	 Associated with spreading infection (e.g., cellulitis) and increased markers for infection.^{2, 3}
ulcers/injuries	 Full thickness pressure ulcers/injuries (i.e., Category/Stage 3 or 4 pressure ulcers/injuries) are more likely to
	exhibit any signs of infection, but particularly erythema and purulent exudate. ^{2, 3}
	• Observe for indirect indicators of systemic infection (e.g., anorexia, delirium and/or confusion). ^{2, 3}
Diabetic foot ulcers	 Sepsis is uncommonly reported.⁴
	• Probing to the bone with a sterile metal probe or instrument to diagnose diabetic foot osteomyelitis is
	inexpensive, accessible and relatively safe. ⁴
	• Probing to the bone combined with plain X-rays and biomarkers of infection (e.g., ESR, CRP and/or PCT) can
	be used to diagnose osteomyelitis in the diabetic foot. ⁴
	• An increase in temperature in one area of the diabetic foot identified using infrared or digital thermometry
	(if accessible) combined with photographic assessment may be of value in the initial assessment of infection
	when performed via telemedicine."
Chronic leg ulcers	• Wound observations that are independent predictors of infection:
	 Olicer area larger than 10cm².³ Dressence of wound had about 5
	 Presence of wound bed slough." Heavy wound avudate (heavayer, consider avudate level in the context of whether leg values)
	reduction through compression has been achieved) ⁵
	Depression, chronic nulmonary disease and anticease lant use are predictors of wound infection ⁵
Skin toars	Depression, chrome pulmonary disease and anticoagdiant use are predictors of wound infection.
SKIITLEAIS	Distinguish trauma-related initianimation from intection. Early indicators of infastion include:
	• Early Indicators of Infection Include:
	\circ Increasing pain
	\circ Skin flan failure
	 Mechanism of injury should be considered (tetanus vaccination / booster may be required)⁶

Table 04 References

- 1. Sanger PC, van Ramshorst GH, Mercan E, Huang S, Hartzler AL, Armstrong CA, Lordon RJ, Lober WB, and Evans HL, A prognostic model of surgical site infection using daily clinical wound assessment. J Am Coll Surg, 2016. 223(2): p. 259-70.e2.
- 2. EPUAP, NPIAP, and PPPIA, Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline, ed. Haesler E. 2019: EPUAP/NPIAP/PPPIA.
- 3. Blanco-Blanco J, Gea-Sánchez M, Valenzuela-Pascual F, Barallat-Gimeno E, Espart A, and Escobar-Bravo M, Are the classic signs of infection in concordance with results from percutaneous aspiration to diagnose infection in pressure injuries? J Adv Nurs, 2017. 73(6): p. 1433-42.
- Lipsky BA, Senneville E, Abbas ZG, Aragon-Sanchez J, Diggle M, Embil JM, Kono S, Lavery LA, Malone M, van Asten SA, Urbancic-Rovan V, and Peters EJG, Guidelines on the diagnosis and treatment of foot infection in persons with diabetes (IWGDF 2019 update). Diabetes Metab Res Rev, 2020. 36(S1): p. e3280.
- 5. Bui UT, Edwards HE, and Finlayson KJ, Identifying risk factors associated with infection in patients with chronic leg ulcers. Int Wound J, 2018. 15(2): p. 283-90.
- 6. LeBlanc K, Cambell K, Beeckman D, Dunk AM, Harley C, Hevia H, Holloway S, Idensohn P, Langemo D, Ousey K, Romanelli M, Vuagnat H, and Woo K, Best Practice Recommendations for the Prevention and Management of Skin Tears in Aged Skin. 2018, Wounds International.