

Top Reads for Non-Technical Skills (NTS) - R4L “Life Skills” for 2023

	Author	Title	Year	Publisher	Key Points
1	Clapper, Craig	Zero Harm	2019	McGraw Hill	A comprehensive look at Safety Management Systems translated for Healthcare. Human Performance as a key element to achieving a high reliability culture. 70% of human acts leading to harm are preventable using NTS along with building a strong generative culture to support habit formation.
2	Flin, Rhona	Safety at the Sharp-End	2016	CRC Press	NTS defined for Healthcare; Origin Aviation Crew Management; Significant Literature Available to learn more about NTS.
3	Joshi, Maulik (Chapter Authors Clapper & Strong)	The Healthcare Quality Book 5 th Edition (Chapter 5)	2023	ACHE	High level overview of Safety Culture; High Reliability Organizing; Choosing non-technical skills for your organization based on your data.
4	Kahneman, D.	Thinking, Fast and Slow	2011	Farr, Straus, and Giroux	How we think – question things – our innate human capabilities
5	INPO	Generation Human Performance Handbook	2015	INPO	Overview of human performance principles; human performance tools and techniques used in Nuclear Power Industry
6	Johnson, A & Aggarwal, R.	“Assessment of non-technical skills: why aren’t we there yet?”	2021	BMJ	NTS may be the greatest challenge facing medical education today. More NTS studies are needed; No standard framework exists for NTS.

7	Maxfield, D, Grenny, J., Lavandero, R. & Groah	“The Silent Treatment: why safety tools and checklists aren’t enough to save lives”	2011	VitalSmarts, AORN & AACN	Importance of speaking up; Literature suggests solving “undiscussables” will require deeper changes to cultural practices, social norms, and personal skills.
8	Panesar, S. et al.	“Mortality as an indicator of patient safety in orthopedics: lessons from a qualitative analysis of a database of medical errors”	2012	BMC Musculoskeletal Disorders	Study found 44% of patient deaths had a failure in non-technical skills.
9	Uramatsu, M. et al.	“Do failures in non-technical skills contribute to fatal medical accidents in Japan”	2017	BMJ	Study suggests that deficiency in NTSs have been significant in fatal medical accidents in Japan.; ~50% of deaths was related to poor NTS.
10	Riaz, A. et al.	“The role of non-technical skills in surgery”	2015	Science Direct	Everyone in the organization practicing NTS is required to create a strong safety culture; NTS are critical for safe and reliable outcomes; NTS appear to be “simple” skills, however, learning requires significant training, practice, and reinforcement.
11	Yule, S. et al.	“Non-technical Skill Countermeasures for Pandemic Response”	2020	Annals of Surgery Journal	Authors argue that organizations using NTS every time as intended reduce medical errors, save lives, and are better prepared for pandemic response.
12	MD Nasir et al.	“Technical skills and non-technical skills: predefinition concept”	2011	MD Nasir et al.	Importance of NTS in a technically advancing world – concerns regarding individuals not having the social NTS need to be successful in the work environment.