

Name of survey, tool or approach	New survey developed by study authors?	Quantitative or Mixed methods assessment	Qualitative or Mixed methods assessment	Details	As used in	Leadership and their support for safety	Perceptions of safety	Teamwork and collaboration	Safety systems	Prioritisation of safety	Resource constraints	Reporting and feedback	Openness	Learning and improvement	Awareness of human limits	Wellbeing	Other	Details of other	Number of dimensions covered by tool	
SAQ + interviews analysed using framework analysis method		Mixed meth	Following survey, semi-structured interviews were conducted	Abhi Z, Delgado B, Ravaghi H, Abbasi M, Heyrani A, et al. (2018)														Recommendations for improvement	11	
Pharmacy Survey on Patient Safety Culture (PSOPSC) - based on HSC SAQ and Safety Climate Scale + interviews		Mixed meth	Interviews followed survey (which included open-ended questions based in part on the SAQ) + Prior	Allen S, Chinnella M, Homer CS. Lessons learned from the PSOPSC. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.														Documenting mistakes; patient counseling	11	
Patient Safety Behavioral Intent (PSBI) - developed by Wiles	Yes	Mixed meth	Interviews were based on a thematic guide comprising 10 topics	Boussat, B., K. Kamalainy and P. François (2018). "Patient Safety Behavioral Intent (PSBI): A New Instrument for Measuring Patient Safety Intent." <i>Journal of Patient Safety</i> . 2018;17(1):1-6.														Norms and behaviours of colleagues and the individual.	10	
HSOPS - analysis of open responses and interviews		Mixed meth	Interview schedule not focused on dimensions of safety	Campionne, J. and T. Famolaro (2018). "Promising Practices for Improving Patient Safety Culture." <i>Journal of Patient Safety</i> . 2018;17(1):1-6.															9	
Operating Room Management Attitudes Questionnaire (ORMAQ) - developed by Taiwan Joint Commission		Quantitative	Fifty-six item questionnaire covering eight dimensions	Geengay, A., Reid, S., & McIlhenny, C. (2014). Examining the new Chinese SAQ with 46 items with additional items. <i>Journal of Patient Safety</i> . 2014;13(1):1-6.														Values	10	
Documentation - unfilled survey - developed by Chapman		Mixed meth	To assess radiation safety culture, analysis of safety	Chapple CL, Bradley A, Murray M, et al. Radiation safety culture in the UK. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.															10	
Safety Attitudes Questionnaire - developed by Sexton et al. 2006	Yes	Quantitative	A 60 item survey of health professionals attitudes by Sexton H, Shorrock P, Thomas E, et al. Exposure to L	Sexton H, Shorrock P, Thomas E, et al. Exposure to L. <i>Journal of Patient Safety</i> . 2006;5(1):1-6.															10	
Focus groups + HSOPS		Mixed meth	focus group interviews first conducted, with the inter	Elder NC, Brungs SM, Nagy M, Kuddel I, Render ML, et al. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.															9	
Patient Safety Climate in Healthcare Organizations - developed by Simpson		Quantitative	Developed from the PSCL, this 38 item survey evaluates	Singer S, Lin S, Falwell A, Gaba D, Baker L, Relations. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.														Flexibility	10	
Patient and Occupational Safety Culture Survey - developed by Johnson et al. 2018 + inter	Yes	Mixed meth	Survey of junior and senior surgeons included the SAQ	Johnson, M. J., S. Arora, D. King and A. Darzi (2018). "Improving the Quality of Patient Safety Culture in the UK." <i>Journal of Patient Safety</i> . 2018;17(1):1-6.														Supervision - adequacy of junior-senior supervisory relationship	7	
SAQ + interviews		Mixed meth	Operating room (OR) version of the SAQ used first	Khosravi A, Lingard L, Wright GR. Evaluation of prede															11	
unfilled survey - developed by Kirkegaard et al. 2018 + oH	Yes	Mixed meth	focused on occupational health and safety, and visio	Kirkegaard, M. L., P. Kines, H. B. Nielsen and A. H. G. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.														Risk-taking behaviour "If I take chances at work, where th	5	
Manchester Patient Safety Framework (MaPSaF) + SAQ		Mixed meth	Evaluation of an improvement project using baseline	Lachman P, Linkson L, Evans T, Clausen H, Hothi D, et al. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.															10	
Hospital Survey on Patient Safety Culture - developed by the Agency for Healthcare Research and Quality		Quantitative	(dimensions): 1. Management support for patient	Sorra JS, Dyer N. Multilevel psychometric properties of															9	
SAQ + interviews with SAQ as framework for analysis		Mixed meth	Interviews used to probe topic of safety culture deep	Lisatoyadondo TA, Yan X, Leyshon S, et al. (2017) A															5	
HSOPS + interviews and framework for analysis		Mixed meth	expanding on survey results, three safety domains	Livson D, Knobloch MJ, Blue LA, et al. A mixed assess															10	
Interviews, focus groups + Cultural Assessment Survey		Mixed meth	Qualitative data used to inform survey development	Milne JK, Bendaly N, Bendaly L, Worsley J, Fitzgerald J, Nisker J. A measur														training interventions "I train people are valuable, their input,	5	
Junior Doctor-Patient Safety Attitudes and Climate Questionnaire	Yes	Quantitative	The Junior Doctors' Patient Safety Attitudes and Cl	Durani P, Dias J, Singh HP, Taub N. Junior doctors and															8	
Safety Climate Survey (SCS) - based on SAQ, developed by Sexton	Yes	Quantitative	A 19-21 item derivative of the SAQ, it assesses safe	Squires M, Tourangeau A, Laschinger HKS, Doran D, et al. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.															8	
Chinese Hospital Survey on Patient Safety Culture - developed by Ahmed et al. 2018	Yes	Quantitative	Based theoretically on Zohar's model of safety culture	Zhu J, Li L, Zhao H, Han G, Wu AW, Weingart SN, D, et al. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.															8	
The Patient Safety and Infection Prevention Assessment - described in a Hazardous Drug Handling Questionnaire - developed by Polovich and Modified Stanford Patient Safety Culture Instrument (MSI) - developed by MaPSaF + interviews, focus groups + analysis of reports	Yes	Quantitative	Survey includes Likert and open response questions	Brown BL, Harris AD, Richards CL, et al. Does health ca															7	
Hospital Organizational Culture Questionnaire - developed by Gershon et al. 2008	Yes	Quantitative	Available in a number of iterations (2005, 2006), the	Castel ES, Ginsburg LR, Zaher S, Tamim H, Understa														E.g. "My work area is kept clean"	7	
Manchester Patient Safety Framework (MaPSaF) - developed by the Agency for Healthcare Research and Quality	Yes	Quantitative	Pre-post intervention study with MaPSaF run as work	Simons PAM, Houben R, Vlayen A, et al. Does lean m															10	
unfilled survey - developed by Matsubara et al. 2008	Yes	Quantitative	A Japanese language survey with 24 items in eight	Koboue H, Morishima T, Tanaka M, Murakami G, Hirose M, Imanaka Y. Visualizing variat															7	
Patient Safety Culture Questionnaire - developed by Veterans Affairs	Yes	Quantitative	Similar to the HSOPS, the survey consisted of 68 the	Mohr, D. C., J. L. Eaton, K. M. McPhaul and M. J. Ho														patient care training interventions "I seek opinions ab	7	
Patients' Perceptions of Safety Culture Scale (PaPSC) - developed by Gershon et al. 2008	Yes	Quantitative	Developed from the HSOPS, SAQ and patient exper	Monaca, C., B. Bestmann, M. Kattcin, D. Langner, H. V														Communication with patients - "I always felt that staff list	7	
Pharmacy Safety Climate Questionnaire - developed by Ashcroft and Safety Climate and Capability (SCC) - developed by Bennett	Yes	Quantitative	Thirty-four item survey covering: investigating and	Walpola RL, Chen TF, Fois RA, Ashcroft DM, Lalor D, et al. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.															7	
Victorian Safety Culture Survey (VSCS) - developed by Sexton et al. 2006	Yes	Quantitative	The 74 survey items were adapted from the SAQ and	Stanton J, Burns S, Adams A, Pano A, Vincent C, Facht															6	
Leading a Culture of Quality in Infection Prevention (LQIP) - developed by Patient Safety Culture Assessment Scale (PSCAS) - adapted by Chen	Yes	Quantitative	Based on the SAQ for use in China, the PSCAS cont	Hong S, Li Q. The reasons for Chinese nursing staff to															6	
Quality and Patient Safety Culture - developed by Zohar and Luria 2003	Yes	Quantitative	Originally two 27 item scales assessing organisatio	Hughes LC, Chang Y, Mark BA, Quality and strengt															6	
unfilled survey - developed by Wilson et al. 2010	Yes	Quantitative	Based on PSC and HSOPS, and other instr	Pringle J, Weber RJ, Rice K, Kirrali I, Sinto S. Exam															6	
National Emergency Department Safety Study Survey	Yes	Quantitative	The survey contains 50 questions about systems in	Magid D, Sullivan AV, Cleary PD, et al. The safety of															6	
unfilled survey - developed by Schwonke et al. 2016	Yes	Quantitative	A Portuguese language survey based on the PSCL, it	Schwonke CRGB, Filho WD, Lunardi GL, da Silveira															6	
unfilled survey - developed by Wilson et al. 2010	Yes	Quantitative	This survey focuses on safety culture in the context	Wang Y, H. Han, L. Qin, C. Liu, Y. Wang and W. Liu															6	
Attitudes to Patient Safety Questionnaire III (APSQ III) (Caruthers et al. 2000)	Yes	Quantitative	Survey measures patient safety attitudes over nine	Ahu-EI-Noor, N. L. M. K., Abu-EI-Noor, Y. Z., Abusouda, M. Alfaqawi and B. Bötcher (20															5	
General Safety Culture Survey - developed by Neal et al. 2000	Yes	Quantitative	A 25 item survey of safety culture in general (rather	Amponsah-Tawiah K, Adu MA. Work Pressure and Sa															5	
California-Patient Safety Culture Survey (Cal-PSCS) - developed by Birkmeyer et al. 2013	Yes	Quantitative	Survey developed from the HSOPS and SAQ, focus	Birkmeyer NJ, Finks JF, Greenberg CK, et al. "Patient															5	
Ethnography - interviews, observations, document analysis using Hahn	Yes	Qualitative	Informal conversations, interview conducted. Docu	Breneser, G., J. Wallenburg, R. Osthauser, M. oude Egberink and K. Lombarts (2020). "Patient safety in medical residency training: Balancing brevity and checklists." <i>Health (United Kingdom)</i> .															workarounds, independence and medical autonomy	1
unfilled survey - developed by Ferre et al. 2018	Yes	Quantitative	Developed in part from the HSOPS, this 35 item me	Ferre, M., R. Sautra, A. Medkache, E. Calvo and L. P. Molina-Sánchez (2018). "Drivers of															5	
unfilled survey - developed by Gibbs et al. 2018	Yes	Qualitative	Specifically focused on infection control, this survey	Gibbs, K., S. DeMaria, S. McKinney, A. Fede, A. Harrington, D. Hutchinson, G																5
Interviews and observation	Yes	Qualitative	Interviews and observations used to evaluate trainee	De Korne DF, Van Wijngaarden JD, Van Dyck C, Hid																5
unfilled survey - developed by Simsekler 2019 + interview	Yes	Mixed meth	Survey based on some dimensions of the MaPSaF	Simsekler, M. C. E. (2019). "The link between healthcare risk identification and patient safety culture." <i>International Jo</i>															Dimensions reformulated to assess risk identification prac	4
unfilled survey - developed by Kido et al. 2008	Yes	Quantitative	A Japanese survey with 30 items assessing the follow	Kido Y, Kido S, Taruzuka Shaluzad M, Saegusa Y, Sait															5	
unfilled survey - developed by Lisatoyadondo et al. 2012	Yes	Quantitative	Developed from the SAQ and Job Diagnostic Survey	Lisatoyadondo TA, Nap RE, Johnson A. Variations in															9	
HSOPS - focus groups with interactive qualitative analysis		Mixed meth	Following administration of the survey, a focus group	Sine DM, Northcutt N. Interactive qualitative assessme															5	
HSOPS - focus groups, Theoretical Domains Framework		Mixed meth	HSOPS data used to identify areas to cover in interv	Stewart, D., B. Thomas, K. MacLure, A. Pallivalapala,															9	
Ethnography - interviews and observation		Qualitative	Interview schedule focused on teamwork and comm	Gillespie BM, Gwinner K, Chaboyer W, Fairweather N. Team communications in surgery															developing a shared understanding, managing safety in co	3
Just Culture Assessment Tool (JCAT) - developed by Pate	Yes	Quantitative	of safety culture (from Reason's theory): "a	Petchonok S, Burleson J, Cross C, et al. Development of the just culture assessment tool: measuring the p															5	
Veterans Health Administration (VHA) Hospital Survey of Safety	Yes	Quantitative	This survey assesses 5 domains of safety climate	Pringle J, Weber RJ, Rice K, Kirrali I, Sinto S. Exam															5	
Hospital Transfusion Services Error Reporting and Safety Culture Survey	Yes	Quantitative	transfusion medicine, this survey contains 79 survey	Sorra J, Nieuw V, Faasman BR, Kaplan H, Schreiber G,															Patient safety as a personal priority - Assuming personal r	5
Vienna Safety Climate Questionnaire (VSCQ) - developed by Focus groups and observation	Yes	Quantitative	A German-language survey based in large part on o	Steyer J, Schifflinger M, Huber C, Valentin A, Strunk G															5	
Human Factors Attitude Survey (HFAS) - developed by Crogan et al.	Yes	Quantitative	Data collection and data analysis occurred in success	Gimenes FR, Torrieri MG, Gabriel CS, et al. Applying an ecological restorat															5	
Safety Climate of Nurses (SCN) - Santarpia et al. 2015	Yes	Quantitative	A 23 item survey based on one in aviation, it assesses	Wu WT, Wu YL, Hsu SM, et al. Examining the effects															5	
Medical Students' Patient Safety Questionnaire - developed by Flyn	Yes	Quantitative	Originally developed to assess the students' levels of	Ahmed M, Aron S, Baker P, Hayden J, Vincent C, Seydalis N. Building capacity and capability for patient safety educ															4	
Survey on Patient Safety Culture - developed by Naveh et al. 2005	Yes	Quantitative	The survey covers four dimensions - managerial saf	Custo, P. T., R. T. Custo and S. Buttigieg (2019). "The															4	
unfilled survey - developed by Hahn & Murphy, 2008	Yes	Quantitative	A 6 item measure of global work safety climate, que	Hahn SE, Murphy LR. A short scale for measuring saf															4	
unfilled survey - developed by Lowe 2012	Yes	Quantitative	Survey is comprised of the following six items: Error	Lowe G. How employee engagement matters for hospital performance. <i>Health</i>															4	
Error Orientation Scale and Zohar Safety Climate Scale +	Yes	Quantitative	This survey combines two scales, the Error Orienta	Mark BA, Hughes LC, Bolyea M, Bacon CT, Chang Y, et al. <i>Journal of Patient Safety</i> . 2018;17(1):1-6.															4	
Medical Safety Climate Questionnaire - developed by Madrosky et al.	Yes	Quantitative	questionnaire with 28 items assessing knowledg	McCarty SE, O'Boyle G, O'Shaughnessy A, Winkler G. Online patient safety education programme for junior doctors.															4	
unfilled survey - developed by Gimeno et al. 2005	Yes	Quantitative	based in part on the HSCS and developed for Costa	Mendez CC, Gimeno D, Barrios-Gutiérrez Z, Bar															4	
VA Employee Safety Perception Survey - developed by the National	Yes	Quantitative	The survey consisted of 50 questions that represent	Mohr, D. C., J. L. Eaton, K. M. McPhaul and M. J. Ho															4	
unfilled survey - developed by Paez et al. 2013	Yes	Quantitative	One domain of their survey focused on safety cultur	Paez K, Schur C, Zhao L, Lucado J. A national study of															4	
HSOPS + interviews and framework for analysis		Mixed meth	Following survey, the interviews were aimed at ideat	Wami SD, Demissie AF, Wassie MM, Ahmed AN. Pati															9	
Interviews and grounded theory		Qualitative	Interviews conducted in a grounded theory design	Groves PS, Fringoli-Cornet D, Wakefield BJ. It's always something: hospita															managing risk - viewing performance as a work	3
Safety Climate Questionnaire - developed by Zeidi et al. 2012	Yes	Quantitative	This 37 item questionnaire includes 8 aspects of man	Yari, S., M. H. Nassiri, H. Akbari, S. Shabassvari and H															4	
unfilled survey - developed by Al Faqeeh et al. 2019	Yes	Quantitative	An English-language survey assessing safety behav	Al Faqeeh, F., K. Ghali and A. Osman (2019). "Integr															4	
unfilled survey - developed by Berman et al. 2018	Yes	Quantitative	A surgery-focused questionnaire, asking surgeons w	Berman, L., S. Rangell, A. Goldin, D. Skarda, M. Ottos															3	
unfilled survey - developed by Boyer et al. 2012	Yes	Quantitative	A brief 7 item measure of safety climate with the fol	Boyer KK, Gardner JW, Schweikheart S. Process quali															3	

