

Table 1. Literature included in the study, sorted from the latest to the oldest.

Reference	System/Company/ Project	Type of circumstance	Communication link	Telemedicine modalities	Telemedicine services
[52]	A real-time emergency telemedicine system	^a Emergency or remote	Red hybrid radio, modem Internet (ADSL, fiber optics, mobile phones)	Transmission of biomedical data	Telemonitoring, tele-ambulance
[46]	Remote Health Care Strategy (RHC) (Shell's Medical Emergency Response)	Arctic or remote	Satellite	Still images, videoconferencing	Teleradiology, real-time video consultation, tele-ENT
[63]	Upstream Nigeria Telemedicine Pilot	Emergency or remote	Mobile	Vendor-NuPhysicia (video, still images)	Real-time teleconsultation (ENT exam, discuss lab result, discuss prescribed medications)
[12]	The future of Telemedicine in O&G, 2013	Emergency or remote and offshore	^b -----	Dedicated software	Real-time data sharing and decision-making
[64]	Tele medical assistance services (TMAS)	Maritime or offshore	Satellite	e-mail and still images	Tele dermatology
[45]	Statoil	Emergency or remote and offshore	Private LAN or broadband	Video conferencing	Real-time teleconsultation and tele sonography
[33]	TCP (Saipem Telecardiology Program)	Emergency or remote and offshore	Dial-Up	Telephone and e-mail (written recommendations as PDF)	Telecardiology
[41]	Kashagan Project	Emergency or remote and offshore	Satellite	Videoconferencing (Skype), e-mail, and still images	Real-time teleconsultation, telecardiology
[31]	Centro Internazionale Radio Medico (CIRM)	Maritime or offshore	Satellite	Radio and telephone, e-mail	Teleconsultation and Telemedical Maritime Assistance Service (TMAS)
[65]	Eni Oil and Gas company	Remote	GSM, PSTN, ISDN, LAN, satellite	E-mail, telephone, still images	Telecardiology, asynchronous teleconsultation, real-time data sharing
[66]	Emergency medical services (EMSs)	Emergency	Local network (Peeq-Box) and a server (Asterisk, Digium Inc)	Continuous audio, vital data, and video transmission	Tele-EMS
[39]	French Tele medical Assistance Service (TMAS)	Emergency or maritime or offshore	-----	Telephone, still images, videoconference with Skype	Teleconsultation, telecardiology, real-time video consultation, telephone advice

^a “or ,” is used when an article considers more than one circumstances, communication link, telemedicine modalities and telemedicine services.

^b “-----” Depicts missing data or description in the article.

([48 ,49])	Japan Syowa station	Antarctica or , emergency or remote	Radiotelegraph, radio, satellite radio-telephone and satellite radio facsimile, mobile	E-mail, still and moving pictures (video)	Real-time teleconsultation, teleradiology, teledermatology, tele-orthopedics, tele-ophthalmology, internal medicine, tele-urology, and teledentistry
[57]	Emergency medical service (EMS)	Emergency or remote	Peeq-Box, P3 communication, mobile networks	E-mail, video, audio, Still images, fax, vital data	Teleconsultation, tele-EMS
[56]	Sonography for Trauma examination	Emergency or remote	Radio	Video and 2-way radio	Tele-ultrasound, telesonography
[28]	Tempus IC Telemedicine	Emergency or remote and offshore	Satellite, Internet, or mobile	Voice, images, data, and video	-----
	InPlace Medical	Emergency or remote and offshore	-----	Videoconferencing, still image, and audio	Teledermatology, tele-ENT
[44]	Amazon Virtual Medical Team (AVMT)	Remote or maritime or offshore	Satellite, mobile	Videoconferencing (Skype), satellite phone, telephone	Telepresence, real-time teleconsultations
[38]	Scorpion Offshore	Emergency or maritime or offshore	Rig bandwidth	Video conferencing	Real-time specialty heart visit and urgent care visit (examine, manage, and treat), tele-ENT, teledermatology
[67]	Aberdeen Royal Infirmary	Maritime or offshore	NHS network	E-mail, still images, and telephone	Electrocardiogram (ECG) interpretation and advice (TMAS)
[40]	Alwyn North oil platform operated by Total	Maritime or offshore	Satellite	Videoconferencing	Real-time teleconsultation and telesonography
[55]	Minor injuries telemedicine service (Aberdeen ED)	Emergency	-----	Videoconferencing	Teleconsultation
[37]	Minimum medical emergency data-set (MMEDS)	Remote	Virtual private network (VPN), mobiles	Data, SMS messages	Real-time data sharing and decision-making
[62]	"Multi-purpose" and "all-weather" telemedicine system	Emergency or remote or offshore	GSM, GPRS, Satellite and Plain Old Telephone System (POTS)	Still images	Bidirectional telepointing capability, images, and real-time one ECG lead waveform transmission
[60]	(CDMA)-based emergency telemedicine system (CETS)	Emergency or remote	CDMA-based networks (Mobile)	Bio signal transmission	Telemonitoring, tele-ambulance
[61]	Mobile telemedicine unit (MTU)	Emergency or Arctic	Mobile	Still images	Teleradiology, tele-ECG, tele-electroencephalography, asynchronous teleconsultation
[47]	British Antarctic Survey Medical Unit (BASMU)	Antarctica or emergency or remote	Radio telephone, satellite	Still images, e-mail, fax, telephone	Teleradiology, teledermatology, tele-interpretation, telespirometry, real-time consultation, real-time data sharing and decision-making, thrombolysis, real-time Telemonitoring, tele-education (training)

[51]	Arctic health information and research	Arctic	Satellite, mobile, radio	Video conferencing	Tele-education (Training)
[50]	Italian Antarctic Base at Terra Nova Bay	Antarctica or emergency or remote	INMARSAT (Satellites), mobile phones, VPN	Medical data, still images, e-mail, fax, video	Videoconference, teleconsultation, teleradiology, on-line and off-line teleconsultation (ophthalmic, radiology, and orthopedic)
[32]	Aberdeen Royal Infirmary's accident and emergency department	Emergency or remote or offshore	Radio	Radio and telephone	Radio medical advice
[59]	Moorfields Eye Hospital	Accident and emergency	----- (Not specified (384 kbits per second))	Videoconferencing, telephone	Real-time teleconsultations, tele-ophthalmology
[58]	Aberdeen accident and emergency department	Accident and emergency or remote	ISDN at 384 kbits per second	Videoconferencing, still images	Real-time teleconsultations, teleradiology
[68]	Military treatment facilities (MTFs)	Maritime or offshore	NMCS ("hub-and-spoke")	Videoconferencing	ENT teleconsultations
[34]	MERMAID	Remote or maritime, offshore or emergency	ISDN, digital land lines, cellular or wireless, satellite and broadband	Videoconferencing	Tele-education (Training)
[4]	Alaska Telemedicine Project	Arctic or remote	Single-side band radio, satellite radio, and television	Videoconferencing, medical messaging and internet, e-mail, still images	Clinical decision-support, teleradiology, tele-ENT and dermatology
	Turku University hospital	Arctic or remote	ISDN	Still images	Teleradiology
	Greenland	Arctic	-----	Video, still images	Videoconsultations, teleradiology
	Arkhangelsk Region (PC-based system)	Arctic or remote	-----	Still images, audio-telephone	Teleconsultations, tele-education (Training)
[43]	Mount Logan and Mount McKinley Telemedicine Projects	Arctic or remote	Mobile satellite communication	Physiological data	Telemonitoring
	Baffin Telehealth Project	Arctic or remote	Satellite	Video, still images	Real-time teleconsultation, videoconferencing, digital imaging, and various medical diagnostics
[35]	MERMAID	Remote or maritime, offshore or emergency	ISDN, digital land lines, cellular/wireless, satellite, and broadband	Videoconferencing, audio, multimedia, flat files, and still images	Telepresence, real-time teleconsultations
[26]	MERMAID	Remote or maritime, offshore or emergency	ISDN, digital land lines, cellular/wireless, satellite, and broadband	Videoconferencing, audio, multimedia, flat files, and still images	Telepresence, real-time teleconsultations

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