Supplementary

Table S1 Reported cases of provoked Staphylococcus lugdunensis endocarditis

Author (publication year-country/region)	Patient age (years)/gender	Procedure performed	Valves involved	Blood cultures	Outcome
Breen et al. (1994-USA)	73/F	Right heart catheterization via left inguinal	AV endocarditis	Blood cultures positive for SL	Alive, AV replacement
Kralovic et al. (1995-USA)	26/M	Tooth extraction	Bicuspid aortic valve endocarditis and valve ring abscess	Several blood cultures positive for SL	Alive, AV replacement
Fervenza et al. (1999-USA)	39/M	Vasectomy	MV bilateral leaflet vegetation with severe MR	Blood cultures positive for SL	Alive, MV repair
Polenakovik et al. (2000-USA)	55/M	Left heart catheterization via left inguinal	TTE negative for endocarditis and patient refused TEE	5/6 blood cultures positive for SL	Alive, antibiotics treatment only
Jones et al. (2002-USA)	16/M	Skin abrasion by gardening tool	Congenital AV stenosis with vegetations (16.6×6.7 mm) in RA, LV septum, MV and right coronary cusp of AV $$	6/6 blood cultures positive for SL	Alive, debridement MV, TV, VSD closure and Ross procedure with reconstruction of the aortic outflow tract
Kourbeti et al. (2007-Greece)	33/M	AVR for bicuspid valve	Aortic valve dehiscence, displacement with small vegetation, paravalvular leak and regurgitation	2/3 blood cultures positive for SL	Died, severe hemodynamic instability
Viganego et al. (2007-USA)	75/M	Femoral endarterectomy and femoral-popliteal bypass	Aortic valve 3.5 cm vegetation	4/4 blood cultures positive for SL	Died, severe hemodynamic instability
Chopra et al. (2010-USA)	41/M	Recurrent manipulation left subclavian dialysis permoath resulted AICD lead infection	Large vegetation attached to right atrial pacemaker lead, ventricular AICD lead and the tricuspid valve	8/8 blood cultures positive for SL	Alive, AICD removed and TV not replaced
Patil et al. (2011-USA)	46/M	MVC with multiple exploratory laparotomies with infected ventral hernia mesh	Multiple tricuspid valve vegetation, largest 2.6×1.9 cm	2/2 blood cultures positive for SL	Alive, TV replacement
Cevasco et al. (2012-USA)	50/M	Vasectomy	Aortic valve vegetation non-coronary cusp with root abscess	Blood cultures positive for SL	Alive, AV replacement
Mrzljak et al. (2012-Croatia)	63/M	A liver transplant patient, 6 years prior had foot pustule	Mitral valve vegetation with moderate MR and moderate TR	Blood cultures positive for SL	Alive, MV replacement and tricuspid annuloplasty
Tsao et al. (2012-Taiwan)	66/F	3 years prior pacemaker insertion, undergone electrode repositioning	Intra-cardiac shunt with vegetation on ventricular lead	Blood cultures positive for SL	Died, sudden cardiac arrest
Arain et al. (2013-USA)	66/M	Trans rectal biopsy	Myxomatous degeneration MV posterior leaflet, perforation anterior leaflet with mobile mass on atrial side	4/4 blood cultures positive for SL	Alive, MV replacement
David et al. (2015-USA)	36/M	A vasectomy complicated with MCA stroke	Mitral valve vegetation, with perforation and regurgitation	Blood cultures positive for SL	Alive, MV replacement
Schandiz et al. (2015-Norway)	56/M	Bilateral vasectomy.	MV large vegetation with severe regurgitation	Not reported	Died, severe hemodynamic instability
Khafaga et al. (2016-Austaria)	35/F	24 weeks pregnant. Admission big toe wedge resection for paronychia	MV-perforated anterior leaflet and vegetation 20×11 mm	2/2 blood cultures positive for SL	Alive, post-cesarean section mitral valve replacement
Guillaume et al. (2017-France)	2/M	Langerhans cell histiocytosis on chemotherapy via totally implantable venous access port	2 vegetations on septal leaflet TV (largest 13.1×14.3 mm), progressing (21×14 mm) associated with TR (2/4)	4/4 blood culture positive for SL	Alive, resection of vegetation and TV valvuloplasty
Mukaihara et al. (2017-Japan)	74/M	History of MV repair for severe regurgitation 8 years prior. with acupuncture therapy 2 weeks prior to presentation	Initial vegetation 12 mm P2 of MV rapidly expanding with severe MR and pulmonary hypertension. Associated at post-operation day 10 mycotic aneurysm of SMA	Blood cultures positive for SL	Alive, MV replacement followed by aneurysm resection
Al Majid (2018-KSA)	73/M	Gluteal abscess drained	Vegetations on TV, MV and AV with aortic root abscess	2/2 blood cultures positive for SL	Alive, TV, MV and AV replacement and aortic root abscess debridement
Hirose et al. (2019-Japan)	2/M	re-RVOTR with BJV graft and at day 6 symptoms began	Mediastinitis with vegetation of the BJV and TV	Blood cultures positive for SL	Alive, BJV replacement with TV replacement
Iftikhar et al. (2019-USA)	20/M	With Blount's disease with orthosis removed	Vegetation on PV with regurgitation	2/2 blood cultures positive for SL	Alive, PV replacement
Yamazaki (2020-Japan)	81/M	Presented with fever, 4 years after AVR	vegetation over prosthetic aortic valve and LVOT and aortic annular abscess	Blood culture positive to SL	Alive, redo AVR and aortic annular reconstruction
Ishidou et al. (2020-Japan)	Neonate/F	Post-op bilateral pulmonary artery banding and Norwood procedure. Post-op 29 th day with fever and treated for SL in blood. 1 month after with acute hypoxia and bradycardia	Echo prior to discharge negative for endocarditis. Autopsy post 1 month discharge revealed RV-PA conduit with large vegetation obstruction	Blood cultures positive from central line for SL	Died, no surgical intervention
Singhal et al. (2021-USA)	78/F	TVAR	Vegetation from aortic root to anterior mitral leaflet	Blood cultures positive for SL	Died, 7 days post-op TVAR explantation, tissue AV and MV replacement, TV repair, VSD closure and RV free wall perforation repair

F, female; AV, aortic valve; M, male; SL, staphylococcus lugdunensis; MV, mitral valve; MR, mitral regurgitation; TTE, transesophageal echocardiogram; RA, right atrium; LV, left ventricle; TV, tricuspid valve; VSD, ventricular septal defect; AVR, aortic valve replacement; AICD, automatic implantable cardioverter defibrillator; MVC, motor vehicles crash; TR, tricuspid regurgitation; MCA, middle cerebral artery; re-RVOTR, repeat right ventricular outflow reconstruction; BJV, bovine jugular vein; PV, pulmonary valve; LVOT, left ventricular outflow tract; RV, right ventricle; PA, pulmonary artery; TVAR, transcatheter aortic valve replacement.