

**Annex 1:** main characteristics of patients from the cases of *Legionella* endocarditis

| Author                    | Year | Valve localisation | Valve type            | Clinical presentation  | Diagnostic test                        | Echocardiogram                                  | Pathogen                                            | Treatment                                                                                                             | Death |
|---------------------------|------|--------------------|-----------------------|------------------------|----------------------------------------|-------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------|
| McCABE RE <i>et al.</i>   | 1984 | Aortic, mitral     | Biological prosthesis | Fever                  | Valve culture /serology                | A vegetation or degeneration of a valve leaflet | <i>L. pneumophila</i>                               | Erythromycin for 6 months, rifampicin for 2 months – valve replacement                                                | No    |
| Littrup P <i>et al.</i>   | 1987 | Aortic             | Native                | Fever<br>Pneumonia     | Serology                               | Vegetation                                      | <i>L. bozemanii</i><br>and<br><i>L. longbeachae</i> | Erythromycin 4g IV for 6months. Then 3g per os for 2 weeks                                                            | No    |
| Tompkins LS <i>et al.</i> | 1988 | Aortic, mitral     | Biological prosthesis | Fever<br>Heart failure | Valve culture/serology                 | Vegetation                                      | <i>L. pneumophila</i>                               | Erythromycin 4g IV for 8 weeks, 2g per os for 12 months, rifampicin 600mg per os for 6 months - valve replacement     | No    |
| Tompkins LS <i>et al.</i> | 1988 | Aortic             | Biological prosthesis | Fever<br>Heart failure | Valve culture/serology                 | Aortic valve dehiscence                         | <i>L. Dumoffii</i>                                  | Erythromycin 4g iv for 6 months, rifampicin 600mg per os for 6 mo, vancomycin 2 g iv for 6 months - valve replacement | No    |
| Tompkins LS <i>et al.</i> | 1988 | —                  | Mechanical prosthesis | Fever<br>Heart failure | Serology                               | Negative                                        | <i>L. pneumophila</i>                               | Erythromycin 4g iv for 2 months, 2g per os for 6 months, rifampicin 600mg per os for 6 months                         | No    |
| Tompkins LS <i>et al.</i> | 1988 | Aortic             | Biological prosthesis | Fever<br>Heart failure | Valve culture, serology, blood culture | Severe aortic regurgitation                     | <i>L. Dumoffii</i>                                  | Erythromycin 2g IV for 9 months, rifampicin 1,2g per os for 9 months                                                  | No    |

|                           |      |        |                       |                                              |                                                                        |                               |                                             |                                                                                                                                                                                 |    |
|---------------------------|------|--------|-----------------------|----------------------------------------------|------------------------------------------------------------------------|-------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                           |      |        |                       |                                              |                                                                        |                               |                                             | months- valve replacement                                                                                                                                                       |    |
| Tompkins LS <i>et al.</i> | 1988 | Mitral | Biological prosthesis | Fever<br>Heart failure                       | Valve culture, serology, blood culture                                 | Moderate mitral regurgitation | <i>L. Dumoffii</i>                          | Erythromycin 3g iv for 5weeks, then erythromycin 4g iv for 1 month, followed by 2g IV for 1 month, then 2g per os plus rifampicin 600mg per os for 14months - valve replacement | No |
| Tompkins LS <i>et al</i>  | 1988 | mitral | Biological prosthesis | Fever<br>Heart failure                       | Serology, blood culture                                                | Regurgitation                 | <i>L. pneumophila</i>                       | Erythromycin 4g IV for 2 days, switched to ciprofloxacin 600mg IV plus rifampicin 1,2g per os for 10 weeks – valve replacement                                                  | No |
| Tompkins LS <i>et al</i>  | 1988 | —      | Biological prosthesis | Fever<br>Heart failure                       | Serology, blood Culture                                                | Negative                      | <i>L. pneumophila</i><br><i>L. Dumoffii</i> | Erythromycin 4g IV for 2 months plus rifampicin 1,2g per os for 5 months                                                                                                        | No |
| Park D <i>et al.</i>      | 1994 | Aortic | Mechanical prosthesis | Heart failure<br>Pneumonia                   | Serology                                                               | Severe aortic regurgitation   | <i>L. micdadei</i>                          | Doxycycline-valve replacement                                                                                                                                                   | No |
| Chen TT <i>et al.</i>     | 1996 | Aortic | Mechanical prosthesis | Fever                                        | Valve culture, blood culture                                           | Negative                      | <i>L. pneumophila</i>                       | erythromycin for 6 months, rifampicin - valve replacement                                                                                                                       | No |
| Massey R. <i>et al.</i>   | 2003 | Aortic | Biological prosthesis | Microembolism of digits, respiratory failure | I.Pneumonia microbiologically confirmed (method not further specified) | Severe aortic regurgitation   | <i>L. pneumophila</i>                       | Clarithromycin, rifampicin iv - repeat valve replacement                                                                                                                        | No |
| Patel MC <i>et al.</i>    | 2005 | Aortic | Biological prosthesis | Fever<br>chest pain                          | Valve culture (PCR+)                                                   | Abscess                       | <i>L. micdadei</i>                          | Levofloxacin for 36 months - valve replacement                                                                                                                                  | No |

|                              |      |        |                       |                                                                  |                                          |                                  |                                                                                               |                                                                                                                                                                             |     |
|------------------------------|------|--------|-----------------------|------------------------------------------------------------------|------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Samuel V <i>et al.</i>       | 2011 | Aortic | Native                | Pneumonia, ards, septic shock, acute kidney injury               | Blood culture, BAL, I.Antigen urine test | Vegetation                       | <i>L. pneumophila</i>                                                                         | Levofloxacin and rifampicin then levofloxacin alone for a total of 6 weeks                                                                                                  | No  |
| Pearce MM <i>et al.</i>      | 2011 | Aortic | Native                | Chest pain                                                       | Valve culture (PCR+)                     | Vegetation                       | New <i>I. Strain</i> , designated h63, shares the highest similarity with <i>I. Brunensis</i> | Vancomycin, Ciprofloxacin, Gentamycin - valve replacement - then Moxifloxacin for 6 weeks - relapse: vancomycin, rifampicin Azithromycin, but valve replacement was refused | Yes |
| Fukuta Y <i>et al.</i>       | 2012 | Mitral | Mechanical prosthesis | Brain abscess                                                    | Valve culture (PCR+)                     | Abscess and mitral regurgitation | <i>L. micdadei</i>                                                                            | Levofoxacin for 5 months - valve replacement                                                                                                                                | No  |
| Leggieri N <i>et al.</i>     | 2012 | Aortic | Biological prosthesis | Fever                                                            | Valve culture (PCR+)/serology            | Vegetation                       | <i>L. longbeachae</i>                                                                         | Erythromycin (3 g iv for 6 weeks) and ciprofloxacin (400 mg iv for 15 days and 1.5 g by months for 1 month).                                                                | No  |
| Thurneysen C <i>et al.</i>   | 2014 | Mitral | Native                | septic arthritis                                                 | Synovial culture                         | Vegetation                       | <i>L. pneumophila</i>                                                                         | ciprofloxacin 1,5g per day for 3 months                                                                                                                                     | No  |
| Compain F <i>et al.</i>      | 2015 | Aortic | Native                | Heart failure                                                    | Valve culture (PCR+)                     | Regurgitation                    | <i>L. anisa</i>                                                                               | Levofloxacin (500 mg per day for 3 weeks - valve replacement                                                                                                                | No  |
| Baumgartner VA <i>et al.</i> | 2016 | Aortic | Native                | Fever<br>Chest pain<br>respiratory failure<br>Spleen infarction, | I.Antigen urine test<br>serology         | Thrombus                         | <i>L. pneumophila</i>                                                                         | Clarithromycin for 6 weeks                                                                                                                                                  | No  |
| Young JS <i>et al.</i>       | 2019 | mitral | Biological prosthesis | Fever                                                            | Valve culture (PCR+)                     | Vegetation                       | <i>L. pneumophila</i>                                                                         | Levofloxacin for 6 weeks - valve                                                                                                                                            | No  |

[illegible]

