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| **Table 2. Cases selected for inclusion** |
| Authors, years | Age/Gender | Diamater Of Trachea（mm） | Right/Left Main Bronchus（mm） | MKS Type | Symptoms On Presentation | Final Diagnosis | Treatment |
| Mitterbauer, 2014[1] | 39/male | 36 | 17/20 | Type 2 | Dry cough | MKS, COPD | lung transplantation |
| Gupa,2014[2] | 70/male | 33 | 25/- | Type 1 | Dry cough, Respiratory failure | MKS | symptomatic and supportive treatment |
| Özdemir,2014[3] | 58/male | 35 |  | Type 1 | Productive cough， | MKS, hypertension, hypothyroiditis and type II diabetes | tracheal stent placement |
| Desiderio,2014[4] | 69/male | 57 | 38/32 | Type 1 | Fever, Productive cough | MKS, hypertension, hyperlipidaemia and a pneumothorax | symptomatic and supportive treatment |
| Marioara,2014[5] | 65/male | 59.1 | 30.4/20.2 | Type 3 | Productive cough, Chest pain, Weight loss | MKS, COPD | symptomatic and supportive treatment |
| Kumar,2014[6] | 34/male | 30 | 19.5/18.5 | Type 3 | Dry cough, Chest pain | MKS | symptomatic and supportive treatment |
| Lerner,2014[7] | 34/male | 44.2 |  | Type 1 | Fever, Productive cough, Hemoptysis | MKS | symptomatic and supportive treatment |
| Gouder,2014[8] | 43/male | 35 | 18/20 | Type 1 | Productive cough | MKS | symptomatic and supportive treatment |
| Singh,2015[9] | 54/male | 45.5 |  | Type 3 | Productive cough, Club-finger | MKS, asthma | symptomatic and supportive treatment |
| Uddin,2015[10] | 42/male | 40 |  | Type 1 | Pharyngeal discomfort | MKS, Primary tracheobronchial amyloidosis | symptomatic and supportive treatment |
| Lee,2015[11] | 51/male | 43.77 |  | Type 1 | Dyspnea | MKS, amyotrophic lateral sclerosis (ALS) | tracheal intubation |
| Sudhakar,2015[12] | 51/male | 40 | 42.4/25.8 | Type 1 |  | MKS, hypertension, depression and anxiety | lung transplantation |
| Schiettecatte,2015[13] | 38/male | 40.81 | 22.45/27.13 | Type 2 | Dry cough, Hemoptysis，Chest pain | MKS | symptomatic and supportive treatment |
| Unlu,2016[14] | 63/male | 29 | 23/20 | Type 1 | Dyspnea | MKS | symptomatic and supportive treatment |
| Govindaraj,2016[15] | 36/male | 35 | 25/24 | Type 1 | Productive cough | MKS | symptomatic and supportive treatment |
| Boglou,2016[16] | 83/female | 23 | 19.8/17.4 | Type 1 | Productive cough，Hemoptysis | MKS, IPF, left ovarian cancer, arterial hypertension, diabetes mellitus and osteoporosis | symptomatic and supportive treatment |
| Mondoni,2016[17] | 45/male | 60.1 | 24.2/23.1 | Type 3 | Productive cough，Dyspnea | MKS | symptomatic and supportive treatment |
| Cook,2016[18] | 44/male | 30 |  | Type 1 | Dry cough, Dyspnea, Respiratory failure | MKS | lung transplantation |
| Akgedik,2016[19] | 60/female | 36.5 |  | Type 3 | Dry cough，Hemoptysis，Dyspnea | MKS, asthma, pulmonary aspergillomas | symptomatic and supportive treatment |
| Casso,2016[20] | 84/male | 34.1 | 22.9/21.7 | Type 1 |  | MKS, aortic valve stenosis | tracheal intubation |
| Sullivan,2016[21] | 67/male | 32 |  | Type 2 | Dry cough,Dysphagia | MKS, mantle cell lymphoma |  |
| Fletcher,2017[22] | 45/female | 34 | 24/16 | Type 2 | Fever, Productive cough, Dyspnea, Respiratory failure | MKS, COPD, Human Immunodeficiency Virus | symptomatic and supportive treatment |
| Kaya,2017[23] | 60/male | 32 | 22/18 | Type 3 | Productive cough, Dyspnea, Respiratory failure, Club-finger | MKS, COPD | symptomatic and supportive treatment |
| Lee,2017[24] | 75/male | 46.32 |  | Type 1 | Productive cough | MKS | symptomatic and supportive treatment |
| Kuwal,2017[25] | 30/male | 31.7 | 19.6/20.5 | Type 3 | Fever, Productive cough | MKS, TB | symptomatic and supportive treatment |
| Chenbhanich,2017[26] | 79/male | 31 |  | Type 1 | Fever, Productive cough, Dyspnea，Respiratory failure | MKS, IPF | symptomatic and supportive treatment |
| Akgedik,2018[27] | 80/male | 34.3 | 22.8/21.2 | Type 1 | Dry cough, Dyspnea | MKS | symptomatic and supportive treatment |
| 41/male | 37 | 24.1/22.5 | Type 2 | Productive cough，Hemoptysis | MKS, TB | symptomatic and supportive treatment |
| 72/male | 32.3 | 22.3/22 | Type 2 | Dyspnea | MKS, IPF | symptomatic and supportive treatment |
| 38/male | 30.1 | 21.2/19 | Type 3 | Productive cough | MKS | symptomatic and supportive treatment |
| 67/male | 33 | 22.2/21 | Type 2 | Productive cough，Hemoptysis | MKS, COPD | symptomatic and supportive treatment |
| 59/male | 30.8 | 21/19.7 | Type 1 | Productive cough，Hemoptysis | MKS, COPD | symptomatic and supportive treatment |
| 63/male | 35 | 23.7/21.9 | Type 1 | Dry cough，Hemoptysis，Dyspnea | MKS, Pulmonary embolism, COPD | symptomatic and supportive treatment |
| 65/male | 28 | 20.7/19.5 | Type 2 | Dry cough，Dyspnea | MKS | symptomatic and supportive treatment |
| 74/male | 35.8 | 23/22 | Type 1 | Productive cough | MKS | symptomatic and supportive treatment |
| 63/male | 30.8 | 19.5/19 | Type 1 | Productive cough，Hemoptysis | MKS, TB | symptomatic and supportive treatment |
| 71/male | 37.5 | 24/23.2 | Type 1 | Dry cough，Dyspnea | MKS, COPD | symptomatic and supportive treatment |
| Geng,2018[28] | 79/male | 36 | 24/22 | Type 2 | Dyspnea | MKS, pulmonary fibrosis and Sjogren's syndrome | tracheal intubation |
| DAMIAN,2018[29] | 73/male | 37 | 22/25 | Type 2 | Dry cough, Dyspnea, Pharyngeal discomfort, Weight loss | MKS, Giant cell arteritis | symptomatic and supportive treatment |
| No,2019[30] | 82/male | 32 | 21.08/18.65 | Type 1 | Asymptomatic | MKS, falcine meningioma, atrial fibrillation and Parkinson's disease | symptomatic and supportive treatment |
| Punjadath,2019[31] | 21/male | 30.6 |  | Type 3 | Fever, Productive cough, Hemoptysis，Dyspnea, Chest pain, Respiratory failure, Club-finger | MKS | symptomatic and supportive treatment |
| Naciri,2019[32] | 81/male | 32 | 26/25 | Type 3 | Chest pain | MKS | symptomatic and supportive treatment |
| Santos,2019[33] | 49/male | 35 | 18/- | Type 3 | Respiratory failure | MKS | symptomatic and supportive treatment |
| Aguiar,2019[34] | 40/male | 28.5 |  | Type 3 | Fever, Productive cough | MKS | symptomatic and supportive treatment |
| Harper,2020[35] | 58/male | 52.2 |  | Type 1 | Respiratory failure | MKS | symptomatic and supportive treatment |
| Jafari,2020[36] | 51/male | 39 | 30/26 | Type 1 | Fever, dry cough，Dyspnea | MKS, COVID-19 | symptomatic and supportive treatment |
| Yazici,2020[37] | 25/male | 33.3 | 24/- | Type 1 | Dry cough，Productive cough，Hemoptysis | MKS | symptomatic and supportive treatment |
| Awad,2020[38] | 69/male |  | 22.5/19.7 | Type 1 | Hemoptysis，Dyspnea | MKS, COPD | symptomatic and supportive treatment |
| Estrada,2020[39] | 45/male | 35 |  | Type 3 | Dyspnea，Respiratory failure | MKS, severe pulmonary artery systolic pressure | symptomatic and supportive treatment |
| Satia,2020[40] | 49/male | 47.39 | 15/16 | Type 2 | Fever, Productive cough, Dyspnea | MKS, gastro-oesophageal reflux diseases (GORD) | symptomatic and supportive treatment |
| Fernández-Trujillo,2020[41] | 45/male | 33 | 22/17 | Type 3 | Productive cough，Dyspnea，Respiratory failure | MKS, arterial hypertension, iron deficiency anemia and auricular fibrillation | symptomatic and supportive treatment |
| Loued,2020[42] | 46/female | 42 | 22/24 | Type 2 | Productive cough，Chest pain | MKS | symptomatic and supportive treatment |
| Mkandawire,2020[43] | 43/female | 20.2 | 22.5/20.4 | Type 2 | Productive cough, Dyspnea, Chest pain | MKS, human immunodeficiency virus infection | symptomatic and supportive treatment |
| Wegner,2020[44] | 38/female | 33 | 25/29 | Type 3 | Productive cough | MKS | symptomatic and supportive treatment |
| Chandran,2020[45] | 41/male | 32.1 | 20/20 | Type 3 | Pharyngeal discomfort | MKS | symptomatic and supportive treatment |
| Shahin,2021[46] | 28/male | 31 | 21/24 | Type 3 | Productive cough, Dyspnea, Chest pain | MKS | symptomatic and supportive treatment |
| O'Bryan,2021[47] | 72/female | 32 |  | Type 1 | Fever, Productive cough, Dyspnea, Respiratory failure, Club-finger | MKS | symptomatic and supportive treatment |
| Rjimati,2021[48] | 67/male | 34.7 | 17/15 | Type 1 | Productive cough | MKS, Type 2 diabetes, hypothyroidism, gastroesophageal reflux disease | symptomatic and supportive treatment |
| Srivali,2021[49] | 65/male | 35 | 25/24 | Type 1 | Productive cough，Dyspnea | MKS | symptomatic and supportive treatment |
| Choudhury,2022[50] | 89/female | 29 | 15/14 | Type 1 | Dry cough, Productive cough，Dyspnea, Chest pain | MKS, COVID-19 | symptomatic and supportive treatment |
| Babirye,2022[51] | 43/male | 38.4 | 42.5/38.1 | Type 3 | Productive cough, Dyspnea, Chest pain, Weight loss, Club-finger | MKS, Pulmonary hypertension and right heart failure | symptomatic and supportive treatment |
| Imzil,2022[52] | 59/male | 47.3 | 23.4/35.5 | Type 2 | Productive cough，Hemoptysis，Dyspnea | MKS | symptomatic and supportive treatment |
| Suliman,2023[53] | 30/female | 26.87 |  | Type 1 | Productive cough，Dyspnea | MKS, homocystinuria | symptomatic and supportive treatment |
| Ayub,2023[54] | 62/male | 31.29 |  | Type 2 | Productive cough，Dyspnea，Respiratory failure, Club-finger | MKS | symptomatic and supportive treatment |
| Li,2023[55] | 69/male | 40.1 | 24.1/26.9 | Type 1 | Fever, dry cough，Productive cough，Dyspnea | MKS | symptomatic and supportive treatment |
| Li,2023[56] | 75/male | 34.2 | 24.2/24.8 | Type 2 | Productive cough，Dyspnea | MKS | symptomatic and supportive treatment |
| Wang,2023[57] | 64/male | 44.7 | 26.8/21.5 | Type 2 |  | MKS, Lung cancer | tracheal intubation |
| Zaghba,2023[58] | 67/female | 32 | 20/17.5 | Type 2 | Fever, Productive cough, Dyspnea | MKS | symptomatic and supportive treatment |
| Cheon,2024[59] | 94/female | 29.2 | 20.2/15.3 | Type 1 | Asymptomatic | MKS, emergency hemiarthroplasty of the hip under general anesthesia | tracheal intubation |
| Takimoto,2024[60] | 42/female | 26.9 |  | Type 3 | Dyspnea | MKS | symptomatic and supportive treatment |
| Ozgur,2024[61] | 78/male | 30.87 | 24.08/23.09 | Type 1 |  | MKS, COPD, met astatic squamous cell carcinoma primary to the lung | symptomatic and supportive treatment |
| Babiker,2024[62] | 69/male | 38 |  | Type 1 | Fever, dry cough, Hemoptysis, Dyspnea, Weight loss | MKS, COPD, pulmonary aspergillomas | symptomatic and supportive treatment |
| Chen,2024[63] | 34/male | 44.5 | 25.2/20.0 | Type 1 | Productive cough，Dyspnea | MKS | symptomatic and supportive treatment |
| Solís García,2024[64] | 46/female | 37 |  | Type 1 |  | MKS, asthma | symptomatic and supportive treatment |
| Li,2024[65] | 84/male | 62.6 | 30.9/37.9 | Type 1 | Fever, Productive cough | MKS, hyperlipemia, tracheobronchopathia osteochondroplastica (TO) | symptomatic and supportive treatment |
| Rossi,2024[66] | 40/male | 40 | 33/27 | Type 3 | Fever, Productive cough | MKS | symptomatic and supportive treatment |
| Our case,2024 | 82/male | 36.8 | 27/20.1 | Type 1 | Fever, Productive cough，Hemoptysis，Dyspnea, Anorexia | MKS, COPD, COVID-19 | symptomatic and supportive treatment |

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