|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **UPN.** | **Age/Sex** | **HbS pre TMO** | **Clinical conditions** | **Spirometry pre TMO** | | | | |
|  |  | ***%*** |  | ***%FVC*** | ***%FEV1*** | ***FEV1/FVC*** | **%TLC** | **Resp. patt.** |
| **166** | **14/M** | **76** | **VOC ACS Stroke** | **58** | **64** | **100** | **62** | **R** |
| 191 | 6/F | 70 | VOC ACS | 61 | 43 | 64 | 62 | Not acceptable |
| **192** | **9F** | **75** | **VOC ACS** | **67** | **59** | **83** | **63** | **R** |
| **195** | **11/F** | **71** | **VOC ACS Stroke** | **65** | **65** | **96** | **72** | **R** |
| 199 | 15/F | 86 | VOC ACS | 86 | 78 | 86 | 101 | N |
| 201 | 17/M | 89 | VOC | // | // | // | // | n.e |
| 202 | 3/M | 85 | VOC | // | // | // | // | n.e |
| 204 | 12/M | 92 | VOC | 64 | 45 | 100 | 75 | R |
| 205 | 5/M | 79 | VOC | // | // | // | // | n.e |
| 206 | 7/F | 83 | VOC | // | // | // | // | n.e |
| 207 | 13/M | 88 | VOC ACS | 76 | 68 | 81 | 103 | N |
| 210 | 3/M | 73 | VOC Stroke | // | // | // | // | n.e |
| 213 | 16/M | 91 | VOC | 82 | 76 | 85 | 89 | N |
| 215 | 2/M | 87 | Dactylitis | // | // | // | // | n.e |
| **216** | **14/F** | **92** | **VOC ACS** | **62** | **54** | **82** | **72** | **R** |
| 219 | 15/M | 91 | VOC | 59 | 50 | 78 | 62 | O/R |
| 221 | 4/F | 83 | VOC | // | // | // | // | n.e |
| 222 | 16/M | 91 | VOC | 49 | 45 | 86 | 70 | R |
| 224 | 5/F | 61 | VOC ACS | // | // | // | // | n.e |
| **229** | **17/M** | **82** | **VOC ACS** | **52** | **51** | **89** | **62** | **R** |
| 231 | 5/M | 88 | Stroke | // | // | // | // | n.e |
| **234** | **15/F** | **94** | **VOC ACS** | **57** | **51** | **86** | **64** | **R** |
| 235 | 8/F | 77 | Stroke | // | // | // | // | n.e |
| 236 | 17/M | 63 | Priapism | 82 | 75 | 83 | 95 | N |
| 237 | 10/F | 85 | VOC | 87 | 85 | 89 | 93 | N |
| 239 | 13/F | 73 | VOC | 71 | 68 | 90 | 70 | R |
| 240 | 12/F | 80 | VOC | 72 | 67 | 88 | 69 | R |
| 252 | 8/F | 88 | VOC | 65 | 55 | 82 | 68 | R |
| 258 | 17/M | 79 | VOC ACS necrosis | 83 | 76 | 84 | 92 | N |
| 261 | 4/M | 80 | VOC | 93 | 79 | 97 | 93 | N |
| 263 | 8/M | 78 | VOC | 70 | 72 | 94 | 90 | N |
| 271 | 5/M | 80,9 | VOC | 80 | 73 | 95 | 93 | N |
| 273 | 13/M | 91,5 | VOC | 66 | 71 | 97 | 92 | N |
| 285 | 12/M | 79,7 | VOC | 93 | 79 | 97 | 94 | N |
| 289 | 17/M | 84,7 | VOC + ACS | 86 | 78 | 86 | 93 | N |
| 291 | 14/M | 70,2 | VOC + ACS | 85 | 79 | 85 | 95 | N |
| 297 | 2/M | 63,4 | VOC + dactylitis | // | // | // | // | n.e |

**Table 1: Spirometry in SCA patients before transplant.**

The standard spirometry was performed according to the Guidelines of American Thoracic Society (ATS/ERS 2005 and Gold 2009). Normal value: FVC>75% of theoric value; FEV1/FVC>80%; TLC >80%. In bold are reported the SCA patients with restrictive respiratory pattern, ACS and bronchial hyperactivity.

*Abbreviations:* FVC, forced vital capacity; FEV1, forced expiratory volume in one second; TLC, total lung capacity; n.e, not evaluable; O, Obstructive ventilatory pattern; R, Restrictive ventilatory pattern; HbS, hemoglobin S; VOC, vaso-occlusive crisis; ACS, acute chest syndrome.