**Supplementary Material 9.** Definitions of severity degree in other disorders such as deformities

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| Grade | | Definitions |
| Level | Number |
| 5 | 1 | Leg-length discrepancy ≥10 cm or 1/10 of the unaffected leg |
| 6 | 1 | Leg-length discrepancy ≥ 5 cm or 1/15 of the unaffected leg |
| 2 | Scoliosis with ≥40 degrees of curvature |
| 3 | Kyphosis with ≥60 degrees of curvature |
| 4 | A male aged ≥18 years and <145 cm in height, no longer growing |
| 5 | A female aged ≥18 years and <140 cm in height, no longer growing |
| 6 | Symptoms of dwarfism due to achondroplasia are evident\* |

\*Only applicable to subjects aged ≥2 years