Additional file 1

|  |  |
| --- | --- |
| Additional file 1: Table S1. Linear measurement definition | |
| Tr-G  N’-Me’  N’-Sn  Sn-Me’  Tra\_R-Go’\_R/Tra\_L-Go’\_L  Ls-Li  Sto-Me’  Sl-Me’  Sn-Tra\_R/Sn-Tra\_L  Go’-Me’\_R/Go’-Me’\_L  Tra\_R-Tra\_L  Go’\_R-Go’\_L  Zy\_R-Zy\_L  Ck\_R-Ck\_L  Ex\_R-Ex\_L  En\_R-En\_L  Ch\_R-Ch\_L  Al\_R-Al\_L | anterior forehead height  anterior facial height  anterior upper facial height  anterior lower facial height  Right/left posterior facial height  Lip height  mandibular height  chin height  Right/left facial depth  Right/left mandible length  facial width  mandibular width  inter-zygomatic width  buccal width  outer canthic diameter  Inner canthic diameter  lip width  nasal width |

|  |  |
| --- | --- |
| Additional file 1: Table S2. Angular measurement definition | |
| G-N’-Prn  N’-Sn-Pg’  N’-Prn-Pg’  Sn-N’-Sl  Prn-Sn-Ls  Li-Sl-Pg’  Go’\_R-Pg’-Go’\_L  Ls-Sto-Li  Tra\_R-Go\_R-Me’/Tra\_L-Go\_L-Me’ | nasal frontal angle  soft tissue facial convexity angle  nasal convexity angle  soft tissue ANB angle  nasal convexity angle  chin-lip angle  mandibular convexity angle  lip angle  Right/left mandibular angle |

|  |  |
| --- | --- |
| Additional file 1: Table S3. Ratio measurement definition | |
| N’-Sn/N’-Me’  Sn-Me’/N’-Me’  N’-Sn/Sn-Me’  Sto-Me’/N’-Me’  Sl-Me’/N’-Me’  N’-Me’/Tra\_R-Go’\_R  N’-Me’/Tra\_L-Go’\_L  N’-Sn/Tra\_R-Go’\_R  N’-Sn/Tra\_L-Go’\_L  Sn-Me’/Tra\_R-Go’\_R  Sn-Me’/Tra\_L-Go’\_L  Ch\_R-Ch\_L/Ls-Li  Ex\_R-Ex\_L/Tra\_R-Tra\_L  Ex\_R-Ex\_L/Go’\_R-Go’\_L  Go’\_R-Go’\_L/Tra\_R-Tra\_L  Sn-Tra\_R/Sn-Tra\_L  Go’-Me’\_R/Go’-Me’\_L | anterior upper facial height/anterior facial height  anterior lower facial height/anterior facial height  anterior upper facial height/anterior lower facial height  mandibular height/anterior facial height  chin height/anterior facial height  anterior facial height/right posterior facial height  anterior facial height/left posterior facial height  anterior upper facial height/right posterior facial height  anterior upper facial height/left posterior facial height  anterior lower facial height/right posterior facial height  anterior lower facial height/left posterior facial height  lip width/lip height  outer canthic diameter/facial width  outer canthic diameter/mandibular width  mandibular width/facial width  Right facial depth/left facial depth  Right mandible length/left mandible length |

|  |  |  |  |
| --- | --- | --- | --- |
| Additional file 1: Table S4. Intraexaminer Correlation Coefficients | | | |
| Landmarks | X | Y | Z |
| Tr | 0.996 | 1.000 | 1.000 |
| G | 1.000 | 0.997 | 1.000 |
| N’ | 1.000 | 1.000 | 1.000 |
| Prn | 1.000 | 1.000 | 0.999 |
| C | 1.000 | 1.000 | 1.000 |
| Sn | 1.000 | 1.000 | 1.000 |
| Ls | 1.000 | 1.000 | 1.000 |
| Sto | 1.000 | 1.000 | 1.000 |
| Li | 1.000 | 1.000 | 1.000 |
| Sl | 1.000 | 0.998 | 1.000 |
| Pg’ | 1.000 | 1.000 | 1.000 |
| Me’ | 0.998 | 1.000 | 1.000 |
| Ex\_R | 1.000 | 1.000 | 1.000 |
| Ex\_L | 1.000 | 1.000 | 1.000 |
| En\_R | 1.000 | 1.000 | 1.000 |
| En\_L | 1.000 | 1.000 | 1.000 |
| Os\_R | 1.000 | 1.000 | 1.000 |
| Os\_L | 1.000 | 1.000 | 1.000 |
| Or\_R | 1.000 | 1.000 | 1.000 |
| Or\_L | 1.000 | 1.000 | 1.000 |
| Chk\_R | 0.998 | 1.000 | 0.999 |
| Chk\_L | 0.989 | 0.997 | 1.000 |
| Zy\_R | 1.000 | 1.000 | 0.999 |
| Zy\_L | 1.000 | 0.998 | 0.999 |
| Tra\_R | 1.000 | 1.000 | 1.000 |
| Tra\_L | 1.000 | 1.000 | 1.000 |
| Al\_R | 1.000 | 1.000 | 1.000 |
| Al\_L | 1.000 | 1.000 | 1.000 |
| Ch\_R | 1.000 | 1.000 | 1.000 |
| Ch\_L | 1.000 | 1.000 | 1.000 |
| Go\_R | 0.983 | 0.998 | 1.000 |
| Go\_L | 0.999 | 0.999 | 0.999 |