

Step (in chronological order)	Occupant posture			
	Baseline	Reclined Upright	Reclined Reference	Reclined Slouched
<b>HBM rotation</b> <u>Method</u> : HBM model was rotated with the seatback <u>Fixed bones</u> : /		X	X	X
<b>Adjust the pelvis angle</b> <u>Method</u> : Changing the bone pelvic angle <u>Fixed bones</u> : Head, upper extremities, cervical and thorax vertebrae		X		X
<b>Adjust the hip angle</b> <u>Method</u> : Adjusting the hip angle until the thighs contacts the seat pan <u>Fixed bones</u> : Head, upper extremities, spine, pelvis		X	X	X
<b>Adjust the knee angle</b> <u>Method</u> : Adjusting the knee angle to 110° <u>Fixed bones</u> : Head, upper extremities, spine, pelvis, femurs		X	X	X
<b>Adjust the ankle angle</b> <u>Method</u> : Adjusting the foot angle until the feet contact the footrest <u>Fixed bones</u> : Head, upper extremities, spine, pelvis, femurs, tibia		X	X	X
<b>Lower the upper extremities (avoid initial penetration with the airbag)</b> <u>Method</u> : Changing the humerus and then the radius angles <u>Fixed bones</u> : Head, spine, pelvis, and lower extremities	X	X	X	X
Model subjected to gravity on the semi-rigid seat	X	X	X	X