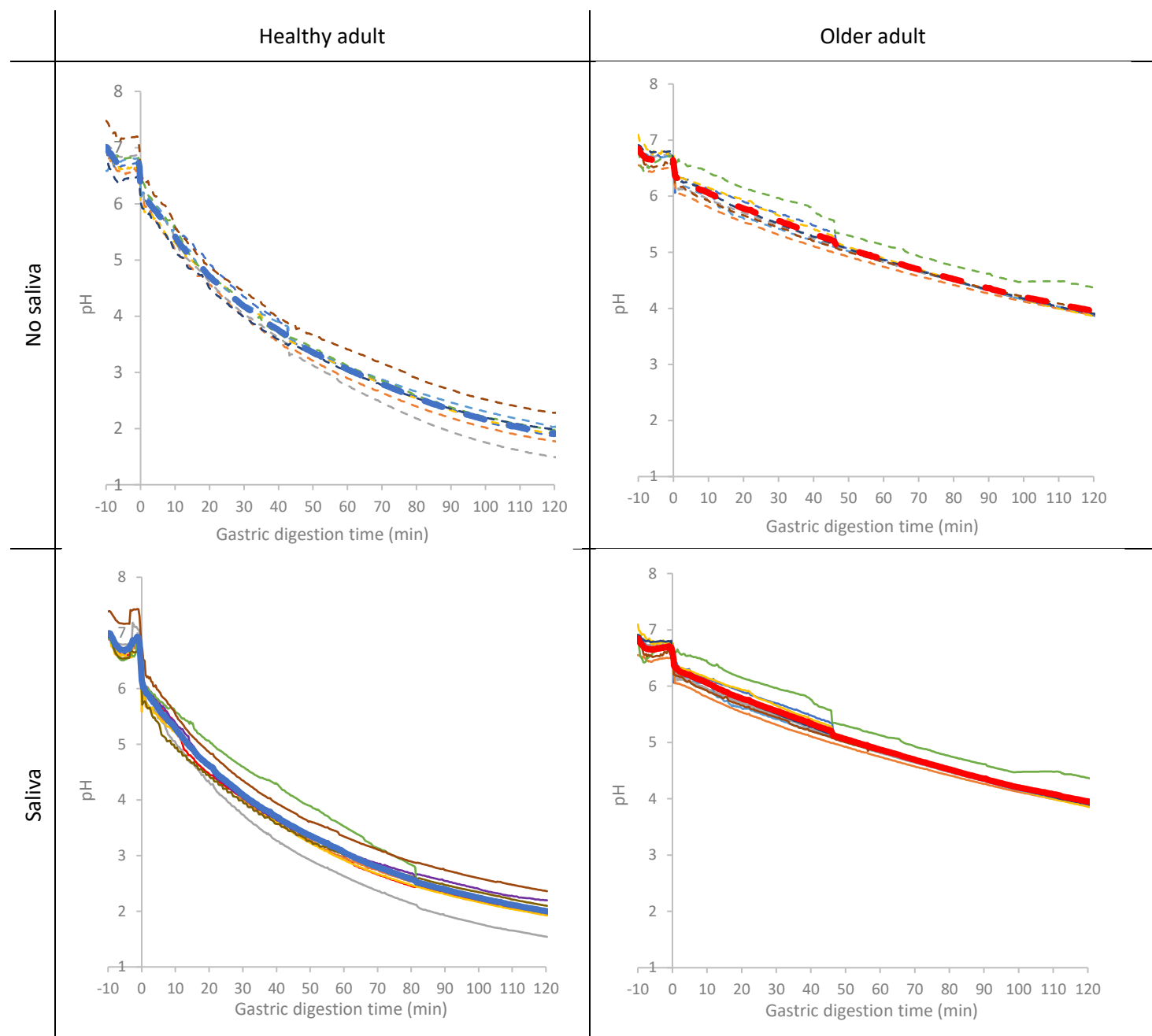


Appendix A



**Figure A.1:** pH profiles obtained during the gastric phase (time 0 to 120 min) of semi-dynamic digestion of cooked lentils. Each of the thin multicolored lines represent continuous pH measurements in one of the eight independent reactors. The thick line represents the average pH profile obtained for healthy adults (*blue*, reaching pH 2) and older adults (*red*, reaching pH 4). The dotted lines indicate pH profiles obtained for simulations without saliva (*top*), while full lines represent simulations with saliva addition (*bottom*).