**Supplementary Files 2a: Summary of different model fitted.**

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|  | | **Significance of the full-null model comparison** | **Significant variables in the full model** |
| **Full model description** | |  |  |
| **Binomial logistic regression** | Model 1: ReChimp ~ age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | NS | NSV |
| Model 2: ChimpSb ~ age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | S | age (25-35), gender (male), edL (Primary) |
| Model 3: ECultTab ~ age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | NS | NSV |
| Model 4: ChimpHun ~age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | S | gender (male) |
| Model 5: ChimEat ~age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | S | TimeLC |
| Model 6: KparkLim ~ age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | S | NumChild |
| Model 7: LawChimpPro ~ age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | NS | NSV |
| Model 8: OpParkMa ~ age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | S | young adults (age (15-24 and 25-35) |
| Model 9: OpChimpExt ~age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | NS | NSV |
| Model 10: OpChimpPro ~ age + gender + edL + MainOp + TimeLC + VilDistPark + NumChild, re="(1|EthGr)" | NS | NSV |
| **Ordinal logistic regression** | Model 11: PerChimpPopTrend ~ age + gender + VilDistPark + MainOp + edL + LDChimpObs + (1|EthGr) | S | edL (Secondary) |
| Model 12: DelPark ~ age + gender + VilDistPark + MainOp + edL + LDChimpObs + (1|EthGr) | S | Age (46-55 ; ≥ 56); TimeLC |
| Model 13: RelComPM ~ age + gender + VilDistPark + MainOp + edL + LDChimpObs + (1|EthGr) | S | gender (male) |
|  | Model 14: OpPM ~ age + gender + VilDistPark + MainOp + edL + LDChimpObs + (1|EthGr) | NS | NSV |