VA Analysis pipeline on desktop

Objective: produce tables with COMSA ID, small COD, broad COD, province, sex, age of death in days – from which team members can create needed outputs

produce sex-stratified InSilicoVA CSMFs by age, for website

Where data are coming from:

1. Go to the portal
2. Download all\_WHO.csv from this analysis : <https://comsa.dashreport.io/analysis/ankfbjajdabfchdgabb>
3. Download eng\_ext\_child\_VASA.dta from this analysis : <https://comsa.dashreport.io/analysis/angebkaebbcdebchbbk>
4. Download all\_WHO\_wgt.csv from this analysis : <https://comsa.dashreport.io/analysis/angacaaccfbkcgecegk>
5. Save 2,3,4 to the “Data” subfolder

To run on the desktop:

1. Check that libraries at the top of each script are installed (you will need openVA and reshape2)
2. Can run Brian’s scripts 1 through 8 (in Code1 folder), or, would be more efficient to get these files from Brian and save to Data subfolder:

* openVA\_comsa.Rdata
* single\_insilicova\_child\_comsa.rds
* single\_interva\_child\_comsa.rds
* single\_eava\_child\_comsa.rds
* single\_insilicova\_neonate\_comsa.rds
* single\_interva\_neonate\_comsa.rds
* single\_eava\_neonate\_comsa.rds

In folder Code2:

1. Run script 9 (to get ID, InterVA and InsilicoVA small causes, sex, province, age of death in days, InterVA and InsilicoVA broad causes for 5-14, 15-49, and 50+ age groups)
2. Run script 10a (to get ID, InterVA, InsilicoVA, EAVA, sex, province, age of death in days for 1-59m)
3. Run script 10b (to get ID, InterVA, InsilicoVA, EAVA, sex, province, age of death in days for 0-27d)
4. Run script 11 (get InSilicoVA aggregate and sex-stratified tables by age group for website)
5. Get Ensemble CSMFs from Brian, for website section 2

Outputs will appear in the Results folder

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| **VA Analysis Pipeline** | | | |
| .R Script | Input (where you can find it) | Output (Results) | Notes |
| 9. get 5to14 15to49 and 50plus | openVA\_comsa.Rdata (Brian)  all\_WHO\_wgt.csv (portal)  all\_WHO\_with\_age.csv (line 93, script 1) | COD.5to14.csv  COD.15to49.csv  COD.50plus.csv |  |
| 10a. get child | single\_insilicova\_child\_comsa.rds (Brian)  single\_interva\_child\_comsa.rds (Brian)  single\_eava\_child\_comsa.rds (Brian)  all\_WHO\_wgt.csv (portal)  all\_WHO\_with\_age.csv (line 93, script 1) | COD.1to59months.csv |  |
| 10b. get neonate | single\_insilicova\_neonate\_comsa.rds (Brian)  single\_interva\_neonate\_comsa.rds (Brian)  single\_eava\_neonate\_comsa.rds (Brian)  all\_WHO\_wgt.csv (portal)  all\_WHO\_with\_age.csv (portal) | COD.0to27days.csv |  |
| 11. get InsilicoVA outputs for website | COD.5to14.csv (script 9)  COD.15to49.csv (script 9)  COD.50plus.csv (script 9)  COD.1to59months.csv (script 10a)  COD.0to27days (script 10b) | CSMF.neonate.website.csv  CSMF.neonate.male.website.csv  CSMF.neonate.female.website.csv  CSMF.child.website.csv  CSMF.child.male.website.csv  CSMF.child.female.website.csv  CSMF.COD.5to14.website.csv  CSMF.COD.5to14.male.website.csv  CSMF.COD.5to14.female.website.csv  CSMF.COD.15to49.website.csv  CSMF.COD.15to49.male.website.csv  CSMF.COD.15to49.female.website.csv  CSMF.COD.50plus.website.csv  CSMF.COD.50plus.male.website.csv  CSMF.COD.50plus.female.website.csv |  |