

HYGIRAD

NUCLEAR DATA TRANSMISSIONS

APP

MEDPHYS Software & Services 2014

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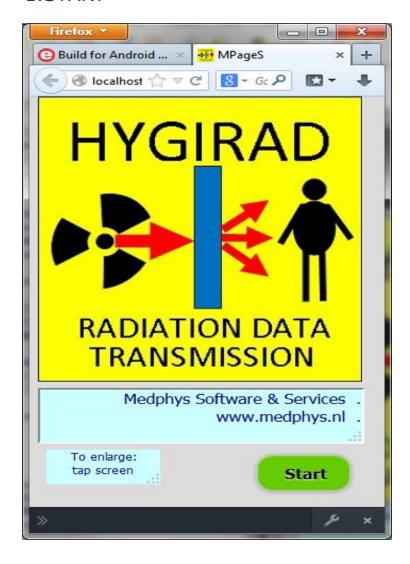
DESCRIPTION OF THE PROGRAM:

The program calculates

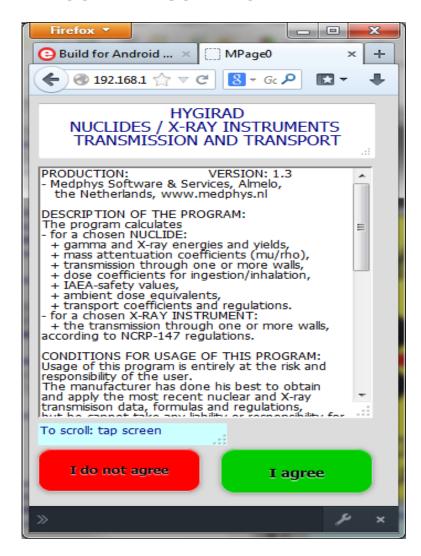
- for a chosen NUCLIDE (or gamma-energy):
 - + gamma and X-ray energies and yields for >300 nuclides,
 - + transmission through one or more walls,
 - + attenuation coefficients (mu/rho) for >120 materials,
 - + data needed for compliance with transport regulations;
 - + Dose Coefficients for inhalation and ingestion,
 - + Safety Values,
 - + ambient dose equivalent values.
- for a chosen X-RAY instrument:
 - + the transmission through one or more walls, according to NCRP-147 regulations

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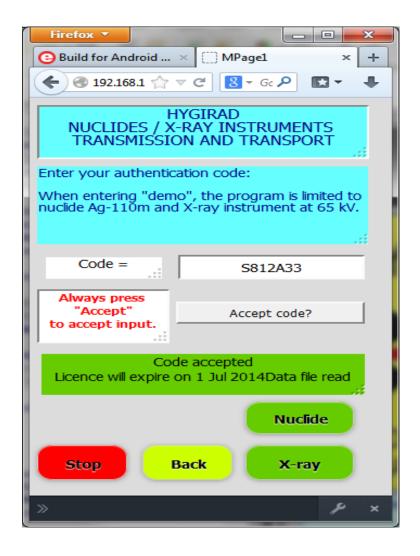
1.START



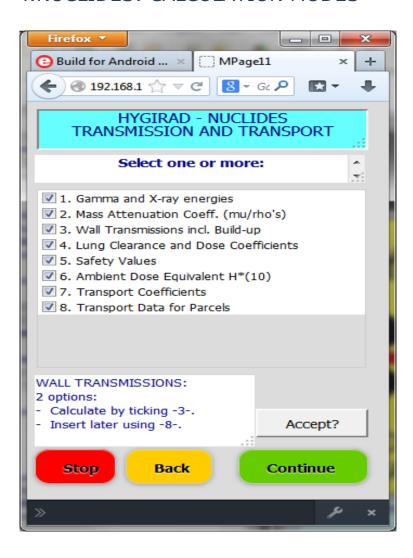
2. PROGRAM DESCRIPTION



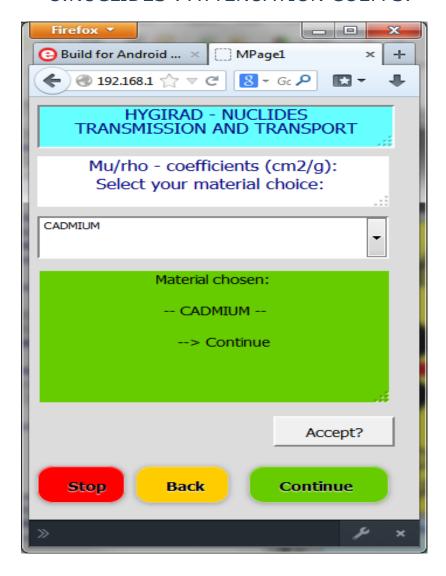
3.INSERTION OF ENTRANCE CODE



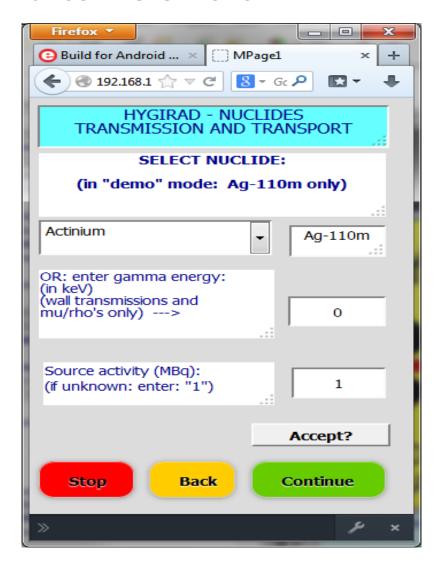
4.NUCLIDES: CALCULATION MODES



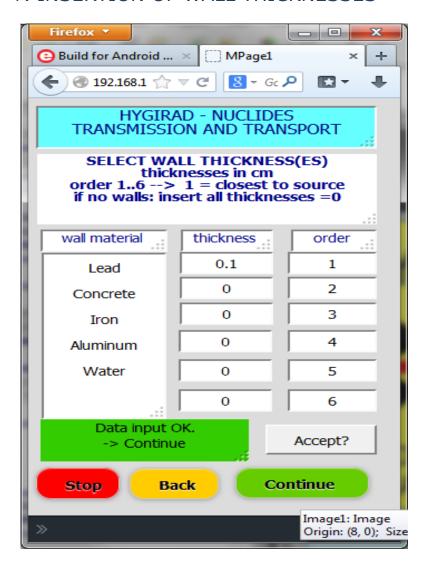
5.NUCLIDES: ATTENUATION COEFFS.



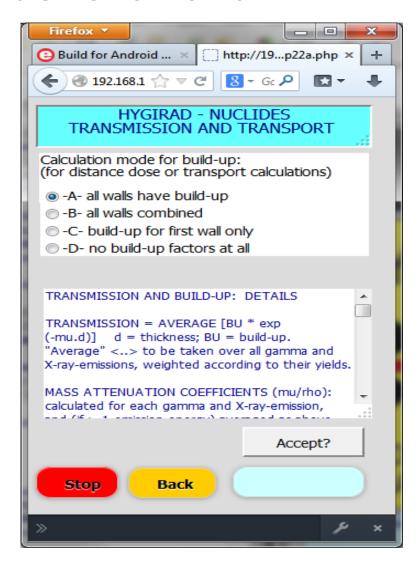
6 NUCLIDES: SELECTION



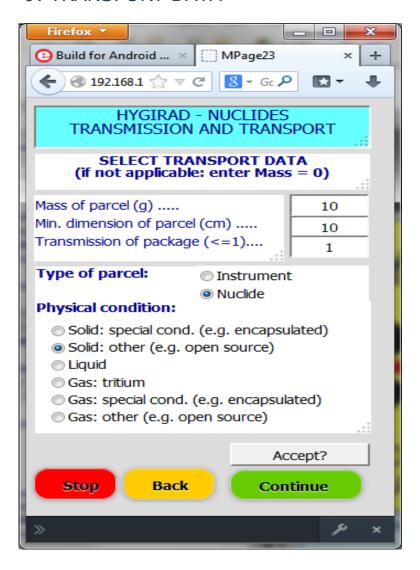
7. INSERTION OF WALL THICKNESSES



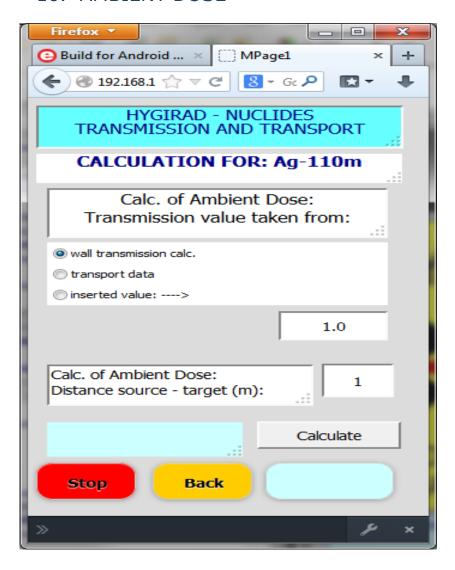
8. SELECT BUILD-UP MODE



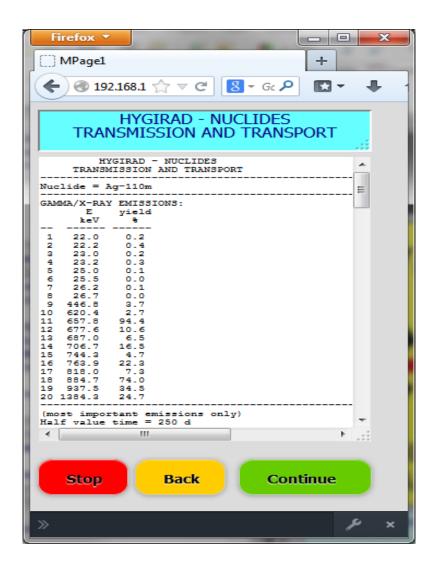
9. TRANSPORT DATA



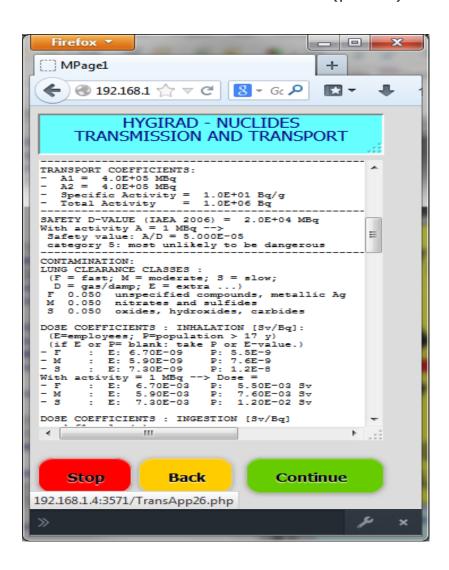
10. AMBIENT DOSE



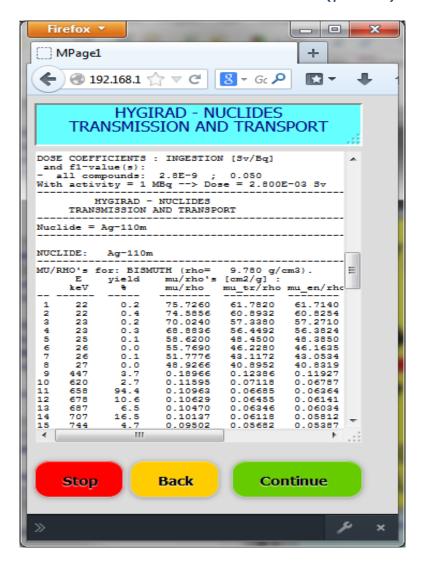
11.1. CALCULATIONS: RESULTS (part 1):



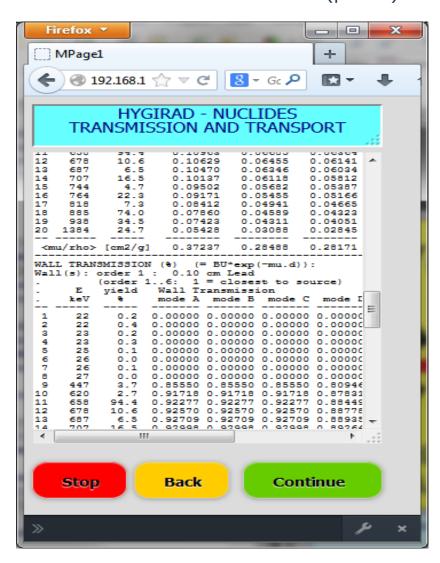
11.2. CALCULATIONS: RESULTS (part 2):



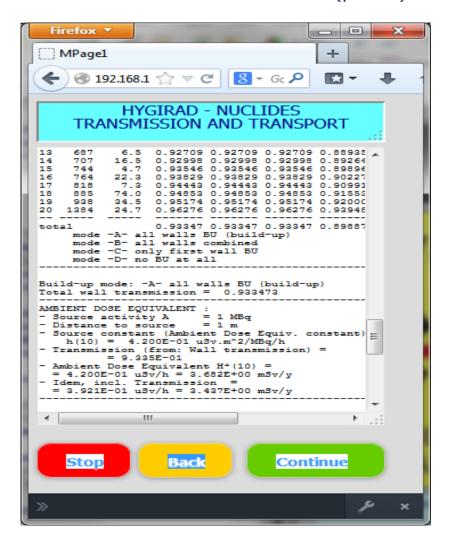
11.3. CALCULATIONS: RESULTS (part 3):



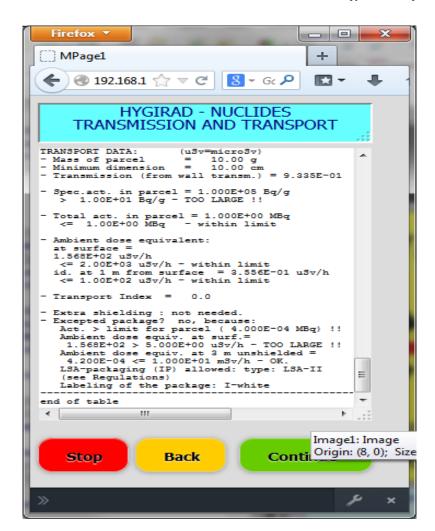
11.4. CALCULATIONS: RESULTS (part 4):



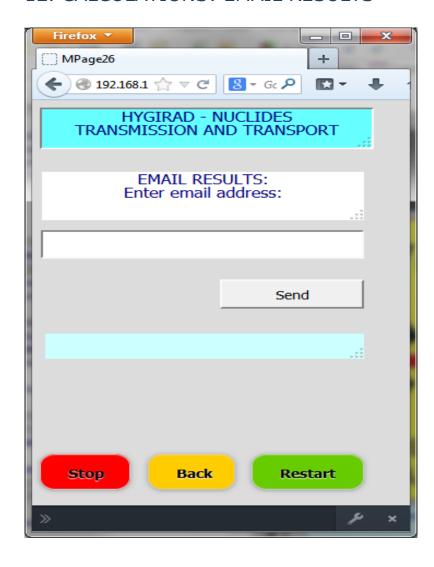
11.5. CALCULATIONS: RESULTS (part 5)



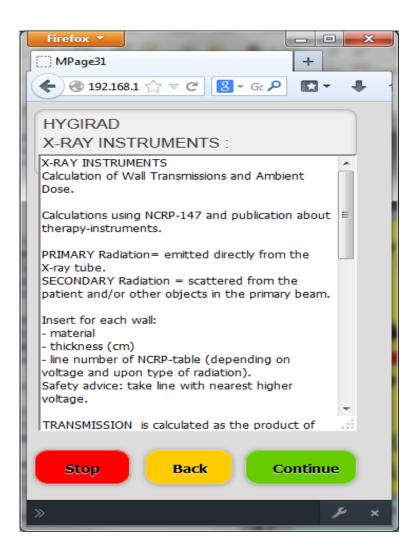
11.6. CALCULATIONS: RESULTS (part 6)



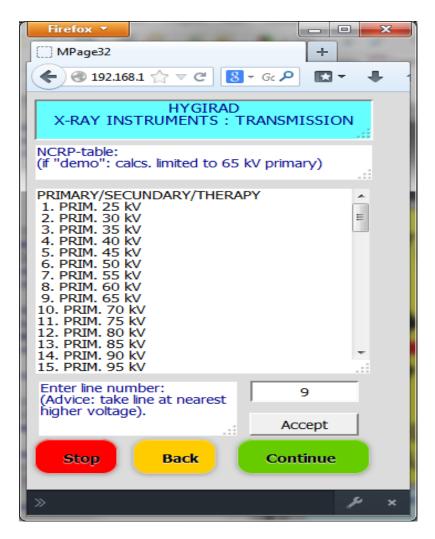
12. CALCULATIONS: EMAIL RESULTS



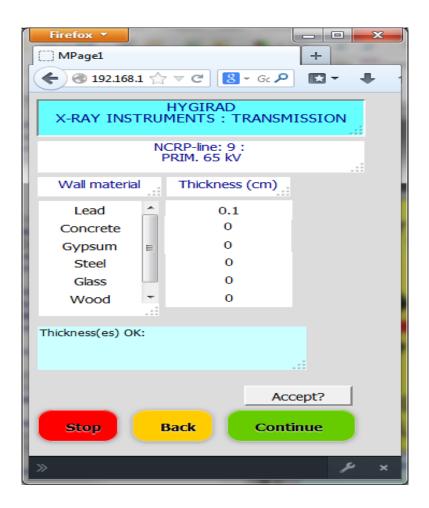
13. X-RAY INSTRUMENTS: DESCRIPTION



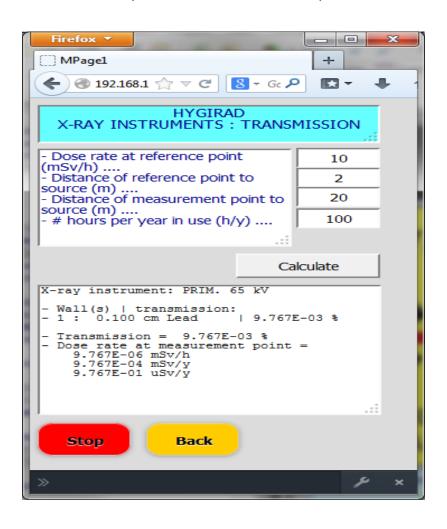
14. CHOICE OF VOLTAGE AND TYPE OF RADIATION



15. INSERTION OF WALL THICKNESSES



16. INSERTION OF DOSE RATES AND DISTANCES; CALCULATIONS, RESULTS



END OF CALCULATIONS