**Electronic supplement 5**

Inclusion criteria in-depth literature search

* Only primary research papers (quantitative/qualitative/mixed methods) were included.
  + Excluded were:
    - Perspectives
    - Reviews
    - Theoretical pieces
    - Dissertations
    - Books
    - Book reviews
    - Editorials
* The study needed to have a primary focus on (e-)portfolio use.
  + Studies that used (e-)portfolios as data source for other research aims were excluded, e.g. studies that assessed quality of reflection via portfolio entries.
  + Studies that evaluated multiple elements of a curriculum, of which the (e-)portfolio was one component, were excluded.
* The study needed to focus on Self-Regulated Learning/Self-Directed Learning.
  + If the study focused on constructs that are part of SRL/SDL, e.g. reflection, goal setting, it was also included.
* The study needed to concern clinical workplace learning, e.g. rotations or postgraduate trainings.
  + Formal education/training was required; meaning no self-study, (short) courses, etc.
    - Continuing Professional Development was excluded.
  + Combinations between clinical training and classroom education were included.
  + Education/training that focused on topics that are not essential for medical training, e.g. teaching, were excluded.
  + Simulation learning was excluded.
* The study needed to be conducted within the field of medical education.
* The study needed to focus on the effects for the learner (students/trainees).
  + Faculty development was excluded.
* Papers in languages other than English, Dutch, French or German were excluded.
* Papers used for the program theory were excluded.