

Supplementary Material

Identifying opportunities to optimise the electronic medical record for allied health professionals: a concept mapping study

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PHASE 1: PREPERATION

Qualitative interviews are conducted in focus groups to discuss the topic and prime participants to the topic.

PHASE 2: STATEMENT GENERATION

Discrete statemetns are generated and collected from all participats. Duplicates are removed. Final set = 98 discrete statements.

PHASE 3: STRUCTURING

- (1) Sorting statements - statements are sorted into groups by participants based on similarity of underlying theme (at discretion of participant). Participants are free to use as many piles as they feel are necessary to ensure sorted piles are meaningful in terms of similarity.
- (2) Rating each statment - each statement is rated on 0-4 Likert scale of importance AND changeability (0= not important/changeable, 4= extremely important/changeable)

PHASE 4: REPRESENTATION

Software program provides five distinct data outputs for analysis.

(1) Multidimensional scaling (MDS) analysis (point map)- produces a two dimensional visualisation plot illustrating how participants judged similarity of the underlying themes/concepts between generated statements (24, 27) and provides a stress value (goodness of fit).

Stress value = 0.321 (acceptable limit is 0.39 (26, 28)).

(2) Hierarachical cluster analysis (dendogram) - produces a physical representation of clusters based on how participants sorted individual statements into groups.

Number of clusters decided- This process was undertaken by 3 authors (MS, EW, JF) who each examined individual statements within each clsuter and together determined the most meaningful groups and selected a representative label/name for each cluster

Cluster results combined with ratings of each statement

(3) Cluster rating map- provides information regarding statement relationship (proximity of clusters), level of agreement (cluster size), level of importance (layers) and uniqueness (distance between clusters)

(4) Pattern matching graph- indicates mean ratings of importance and changeability for all statements within a cluster.

(5) Go Zone - provides a scatterplot, divided into four quadrants, displaying each statement in relation to importance (x axis) and changeability (y axis). The upper right quadrant (Go Zone) indicates statements with high ratings of both importance and changeability.