**Figure 1.** Studies included in the systematic review were grouped into clusters based on the context of the patient decision support resource (pre- and post-genetic testing) and subclusters relating to the impact on outcomes and patient-reported experiences.

**Figure 2.** Flowchart showing the flow of study selection for the systematic review

Records identified through database searching  
(n = 4210)

## Screening

## Included

## Eligibility

## Identification

Additional records identified through other sources  
(n = 2)

Records after duplicates removed  
(n = 2749)

Records screened by inspection of title and abstract  
(n = 2567)

Records excluded  
(n = 2514)

Full-text articles assessed for eligibility  
(n = 53)

**Reasons full-text articles excluded (n = 8):**

General population withoutknown raised risk   
(n = 2)

Resource did not support genetic testing decision or risk reduction (n = 2)

Resource depended on real-time interaction   
(n = 2)

General population and resource did not support genetic testing decision or risk reduction (n = 1)

Study did not evaluate outcomes of interest (n = 1)

Articles included in review  
(n = 64\*)

\*These 64 articles described 46 decision support resources. Research findings about some of these were reported in more than one article.

Articles identified from searching in reference lists  
(n = 18)

Date of last search: 01/07/2021

**Figure 3** Studies included in data synthesis, grouped into clusters and subclusters

## Full text articles

## Clusters: intervention type

**Subcluster 1a:**   
impact on cognitive, emotional or behavioural outcome (n = 41)

**Subcluster 1b:** Patient preferences or experiences   
(n = 10)

**Subcluster 2a:** impact on cognitive, emotional or behavioural outcomes (n = 8)

**Subcluster 2b:** Patient preferences or experiences   
(n = 6)

Articles included in review

(n = 64, describing 46 decision support resources)

**Cluster 1: Pre-genetic test**

**Cluster 2: Post-genetic test**

**Studies over 10 years old (pre-2011) excluded from data synthesis:**Cluster 1a (n = 18), Cluster 1b (n = 4),  
Cluster 2a (n = 5), Cluster 2b (n = 1)

**Subcluster 1a:**   
n = 23,   
describing 16 resources

**Subcluster 1b:**n = 5,   
describing 4 resources, one of which is also in Cluster 1a

**Subcluster 2a:**   
n = 3

**Subcluster 2b:**n = 5

**All interactive:**   
n = 4 values-based exercise, n = 1 interface with tailored risks

**All interactive:**   
n = 2 values-based exercise, n = 1 tailored to personal information processing style

**Information/  
education only:** n = 2  
**Interactive:**   
n = 2 values-based exercise

**Information/  
education only:**   
n = 12  
**Interactive:**   
n = 4: question prompt sheet, risk visualisation, values-based exercise, chatbot

## Intervention type

**Subcluster 1a:**   
Intervention impact on cognitive, emotional or behavioural outcome (n = 41)

**Subcluster 1b:** Preferences or experiences of intervention   
(n = 10)

**Subcluster 2a:** Intervention impact on cognitive, emotional or behavioural outcomes (n = 8)

**Subcluster 2b:** Preferences or experiences of intervention   
(n = 6)

Articles included in review

(n = 64, describing 46 interventions)

**Cluster 2: Deciding about cancer risk management for pathogenic variant carriers**

## Excluded

**Studies over 10 years old (pre-2011) excluded from data synthesis:**Cluster 1a (n = 18), Cluster 1b (n = 4),  
Cluster 2a (n = 5), Cluster 2b (n = 1)

**Subcluster 1a:**   
n = 23,   
describing 16 interventions

**Subcluster 2a:**   
n = 3

**Subcluster 2b:**n = 5