
Just In Time Resources On Demand (JITROD) for Nursing Education

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Nursing education and nursing educators, regardless of the setting, suffer from a common resource deficit, namely time. There are enormous resources available in print and electronic formats, but apparently no easy ways to harness those resources quickly. This paper presents a strategy and a template to facilitate the rapid population of any nursing concept with resources. Using this approach, it is possible to start from ground zero and quickly generate a resource rich matrix from which to develop leaning modules, teaching plans, problem-based scenarios, and meta learning strategies.

The strategy is derived from business models which have been successful in cost reduction, namely the use of a just-in-time approach to inventory control, purchasing, ordering, and delivery of goods. In this approach, the need for nursing resources is seen as being time sensitive, in other words the time at which the resources are gathered is very close to the time at which they are needed. This is at variance with more orthodox approaches to the harvesting and mining of clinical resources, which traditionally has been time consuming, and frequently carried out days or weeks ahead of the point of application. The strategy is robust, easy to use and flexible, in that it can be modified and tailored to meet specific demands. It employs several devices to ensure a wide variety of sampling and through a template allows for rapid accumulation of resources from many sources.

The basic template is structured as a single Web page that contains a series of embedded links to data sources. Each link may contain child links. Figure 1 illustrates the basic composition of the template.

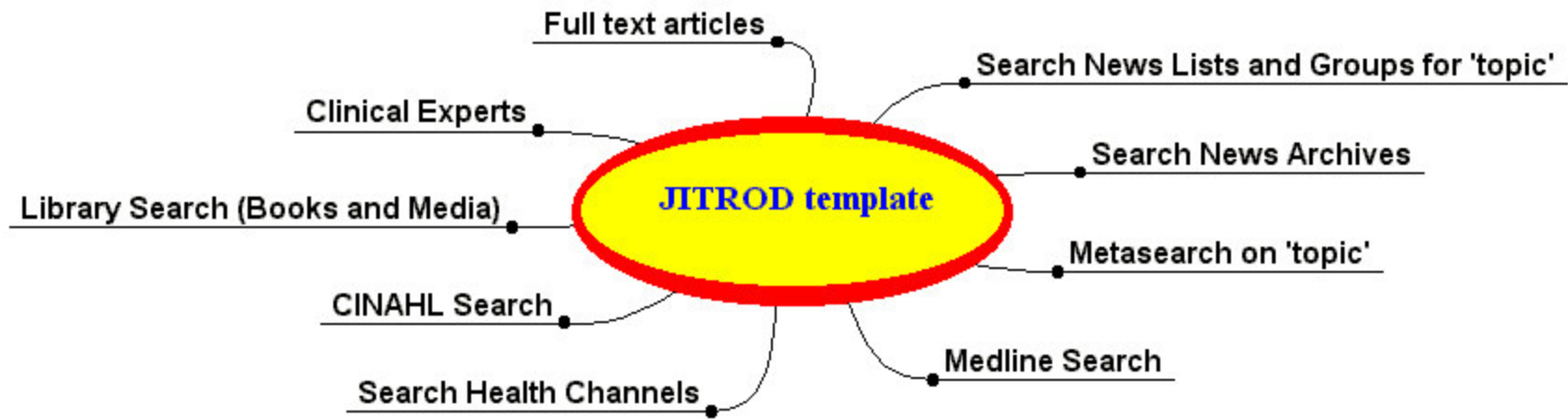
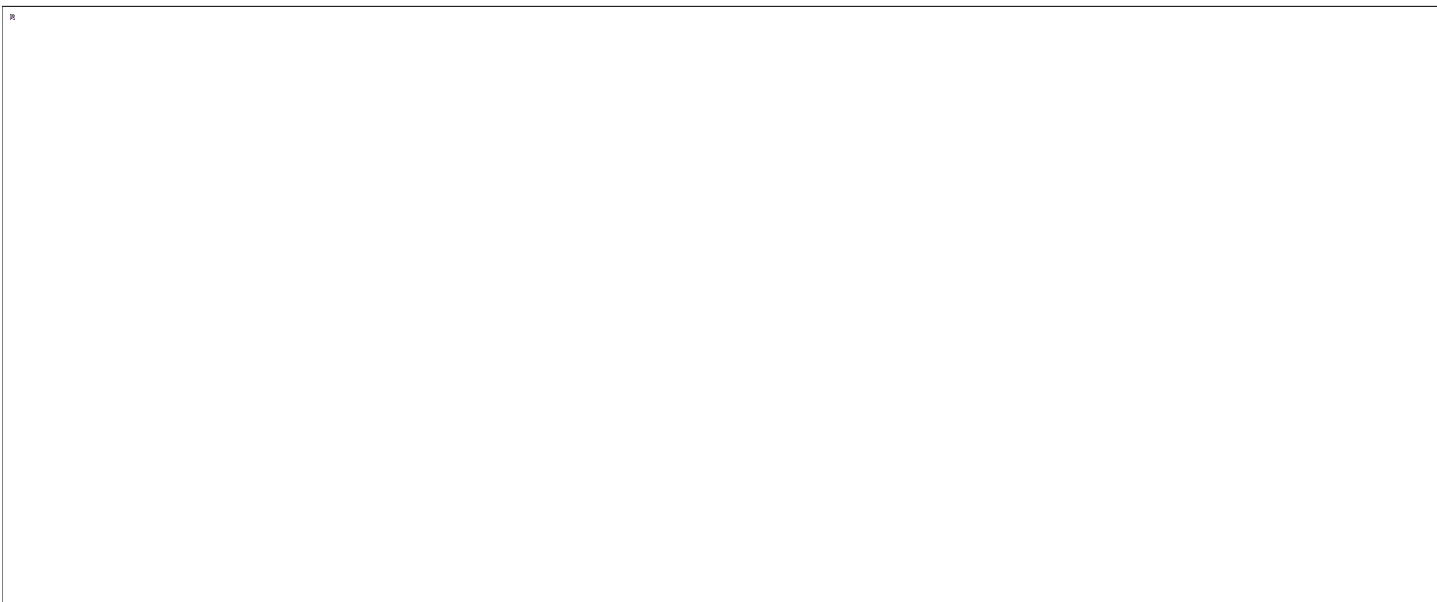



Figure 1 The JITROD template with main source branches

Each link may be either a single source strategy of its own, or may contain multiple strategies. For example, the Search News Archives could be a single link to ABC News or could invoke multiple links to many different news archive sources. The numbers and types of sources that are used are determined by the individual preferences and time constraints of the user. (see Figure 2.)





One or more links may be traversed to search on any given topic. The strategy is implemented with two windows, so that the template is viewed and operated upon in one window (the template resource window), while the results are accumulated in another window (the target resource window). In this way, the user is able to switch quickly between the template resource guide and the resource results window.

A fully developed template with links may be found [here](#) and taken for your own use. (once at the template, save the entire template as a local HTML file).

What follows is a step by step example of how to use the template to generate a resource rich matrix for the concept of 'anorexia nervosa.' The entire process took only 12 minutes, so it may be a useful strategy for the harried educator or student!

Step 1

- Choose a topic. An example might be 'anorexia nervosa.'
- Then establish an empty new page in Netscape Composer in another window.
- Size your two working windows to be side by side or overlapping. Move from one window to the other by moving the cursor into it and clicking to make it the active window.
- The main window is where we will do much of the searching and the Composer window is the target resource page.
- Launch metasearch engines simultaneously, by pasting the phrase 'anorexia nervosa' into their search dialogue boxes.
- Launch CINAHL and Medline searches simultaneously by pasting the phrase 'anorexia nervosa' into their search dialogue boxes.
- Launch Z39.50 search engine simultaneously.

Step 2

- Work through each step of the JITROD template.
- [Search DejaNews Lists and Groups for 'anorexia nervosa.'](#)
- Cut and paste or drag and drop anything of interest from the search window into your target resource page. Save your resource page periodically.

Observe the cumulative results in the [target resource page.](#)



Step 3

- Search the news.
- [ABC News search for 'anorexia.'](#)
- [CNN News Search for 'anorexia.'](#)
- [Total News search on 'anorexia.'](#)

Observe the cumulative results in the [target resource page.](#)



Step 4

- [Infoseek Health Channel search for 'anorexia nervosa.'](#)

Observe the cumulative results in the [target resource page.](#)



Step 5

- Add the ranked and verified results of the metasearch to the target resource page.

Observe the cumulative results in the [target resource page.](#)



Step 6


- [General Medline search on 'anorexia nervosa'](#) - citations 1-20 displayed (out of 5973 found).
- [Clinically focused Medline search on 'anorexia nervosa' - therapy](#) - citations 1-20 displayed (out of 64 found).
- Download the selected Medline search results and import into Citation 7.1.
- Select relevant citations. One button generation of bibliography to clipboard, followed by paste into target resource page.

Observe the cumulative results in the [target resource page.](#)




Step 7

- CINAHL search on **exp Anorexia nervosa/th [Therapy]**.
- Download the selected CINAHL search results and import into Citation 7.1.
- Select relevant citations. One button generation of bibliography to clipboard, followed by paste into target resource page.

Observe the cumulative results in the [target resource page.](#) 


Step 8

- Library Search - Books and Media using BookWhere2000.
- Save the results of the search as a Citation 7.1 database.
- Select relevant citations. One button generation of bibliography to clipboard, followed by paste into target resource page.

Observe the cumulative results in the [target resource page.](#) 


Step 9

- Clinical Experts search
 - [Child and Adolescent Psychiatry at the Nursing Connection](#)
 - [General Psychiatry at the Nursing Connection](#)
 - Search Medline and CINAHL for 'anorexia nervosa' then locate authors.

Observe the cumulative results in the [target resource page.](#) 

Step 10

- Full text articles search of [nursing and other sources](#)

Observe the final results in the [target resource page.](#) 

After an elapsed time of 12 minutes or less, the final resource matrix contains a wealth of relevant resources about anorexia nervosa. From this matrix, any diligent educator or student would be able to develop a useful deliverable very quickly. The JITROD strategy

appears to have some merits in that it is cost-effective, time-effective, and generates a current awareness of a topic or concept that has to be experienced to be believed. Considerable work with teaching nursing students and colleagues this strategy has indicated that it may be a potent learning and organizing tool.

References

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Online Journal of Distance Learning Administration, Volume I, Number 3, Fall 1998 State University of West Georgia, Distance Education Center

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