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DocToBib: PubMed, the physician and the librarian... or the fantastic story of doctors and librarians producing videos together

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Abstract
The story began during Ludovic Hery's residency. He was asked by his friends to help them with using PubMed. He had the idea to produce short tutorials on video; he realised that for students it was an appropriate way of learning, especially for information retrieval.
L. Hery shot 28 tutorials about PubMed and Zotero in the first place, with the help of other residents and health librarians. The project is now carried out by health librarians from French University libraries. Called DocToBib, it relies on a YouTube channel, whose success is real, thanks to social networks. DocToBib is an example of a successful collaboration involving physicians and health librarians.

Key words: librarians; residents; physicians; PubMed; webcasts as topic.

The story began on a Friday morning, at 7:48 on a train from Clermont-Ferrand to Vichy. My colleague Marjolaine, a resident just like I am, asked:
«Ludo, could you show me again how to do a PubMed search? I work on a unit where I happen on diseases and protocols I have never heard of during the residency.»
«But we attended a training course with the librarians, don't you remember?»
«Yes, but I didn't understand everything. I haven't practiced since and I have forgotten everything.»
«Okay. But I'll do it for the whole working group. It will be useful to the others too, I'm sure they could use a reminder.»
A week later I gave my first lesson on PubMed to part of the residents I worked with. In 4 hours, they had learned how to create a MyNCBI account, to use a link resolver, to perform a search on their own questions in PubMed, in natural language or using MeSH words, to filter the results, to save a search and send the results by e-mail. We also downloaded Zotero, and they learned how to save references and cite them in a text file.
In case they would like to review the lesson, I used a screen video sensor and put the videos on the drive we shared.
What I hadn't imagined was that these videos would be shared. During the following month I had very positive feedback, including this one: «Ludo, you've got it! The subject of your doctorate should be a study on PubMed and tutorials on video.»
What an excellent idea. As Barney Stinson would have said: «Challenge accepted!»

Then I started working on it. I first tried to know if every medical student would have the same needs. So I conducted a survey with the general medicine department of the University. The result of the survey confirmed that the study would be valuable: 99% respondents knew PubMed but only 35% used it; 65% wanted to be trained.
To carry out this project, I would need actors, scenario and equipment. And it was necessary to know how to use PubMed perfectly well. That's why I decided to ask health librarians for help.
And I was very lucky. I met the head of the digital library and his whole staff at my University (1). I submitted my project to them and their answer was: «What do you need? We'll give it to you!»
Librarians, residents and physicians would be the

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actors, physicians would take care of scenarii, using real-life examples of situations in which librarians helped them for information retrieval. We used a parody of an episode of «House M.D.» for the first episode of Doctor H. & Co., because we wanted to appeal to residents with a familiar figure and then raise their awareness about research skills (2).
I took 28 videos… and then began another story called DocToBib!

The pilot study
Dr Hery's doctorate (3) reports the results of a pilot study, whose goals were:

- to show that an open access e-learning tool increases the number of research procedures in a medical database such as PubMed;
- to encourage residents in general practice to use PubMed, especially during their first year of residency;
- to enable them to use PubMed faster and more efficiently.

The study lasted 13 months. Residents had to write down in a notebook how many searches they made and which website they used. They also had to complete four questionnaires over the year. Four times a year, they received some information about research skill via e-mail. The residents belonging to the intervention group had also access to video tutorials about searching in PubMed. The results of the two groups were compared at the end of the study.
The results are mixed because the survey participation rate was too low. The goal of increasing the number of searches in PubMed was not achieved. For French students, English is still a barrier.
However, all participants have emphasized the fact that tutorials on video are a fine way of learning (1). So called Generation Y students are fond of this training method (4). It will be a good thing to perpetuate, or even extend, the experience.

DocToBib: video tutorials for research training
The videos were first posted on the University of Auvergne's WebTV, WatchU. They were much more often watched after some advertising via e-mail, Facebook and Twitter (*Figure 1*). The first episode of Doctor H. & Co. had been watched 9 times during the 13 months of the study (33 residents

Fig. 1. *A DocToBib video tutorial for research training*

could have access to them), but 1715 times from March 2014 to January 2015.
Shooting a 5 minute-video takes one or two hours, assembling a one-minute video takes one hour. Recording all the videos took 115 hours and editing them took 256 hours.

The project is now carried out by health librarians from French University libraries. Called DocToBib (for Doctor to Librarian, "BIBliothécaire" in French), it relies on a YouTube channel launched in late April 2014. Since then, the videos have been watched more than 5000 times, in France but also in North Africa, Canada and Sweden.
The movies made in 2013-2014 focused on PubMed and Zotero features (5). The videos that are going to be made in 2015 will describe French tools and databases (Banque de Données en Santé Publique, CISMeF), but also methodology, link resolver, etc.

DocToBib is a good example of successful collaboration between librarians and physicians. But librarians can be useful to physicians in many other ways(6):

- by simplifying access to online documents;
- by helping them to use social networks properly;
- by training them in information retrieval and documentary watch. In France, courses provided by librarians are taken by students but neither by residents nor teachers or practitioners (7). Yet academics say they feel the need to be trained in information retrieval;
- by helping physicians to carry out their

searches, or doing it for them – even if they are sometimes reluctant to entrust their searches to information professionals (8);
- by offering them personalized answers via chat services, question and answer services (Ask a librarian) or individual meetings (9);
- by being present in hospital services. Providing appropriate literature in real time saves time and money while allowing more efficient health care (10).

If you want further information about DocToBib and this collaboration between French physicians and librarians, please have a look on three articles we wrote together (in French):
https://hal.archives-ouvertes.fr/hal-01115703v1
https://hal.archives-ouvertes.fr/hal-01115699v1
https://hal.archives-ouvertes.fr/hal-01115706v1

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