Medicine as a paradigm shift

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Abstract

Research in itself is not only a paradigm, but a paradigm shift at the same time, as each new

piece of information has the potential of completely reshaping the way we see the world. But this

can only happen by gaining access to multiple information sources and listening to different

opinions, from scientists with different backgrounds, who share the same work and research

ethics. And when it comes to medical publications, this can only be achieved through peer-

review.

Medicine as a paradigm shift

Research in itself is not only a paradigm, defined as a set of concepts, rules or standards, but a

paradigm shift at the same time, as each new piece of information may have the potential of

completely reshaping the way we look at the world around us.

In medicine, there can never be enough research. And there can never be enough information. As

a discipline that strives for perfection, medicine also strives for knowledge, the kind of unbiased

knowledge that can only be obtained by accessing multiple sources and listening to different

opinions, from scientists with different backgrounds but sharing the same concepts in terms of

work ethics and research ethics.

As Thomas Kuhn described it, science is not cumulative, but revolutionary in nature. The same

can be said about medical research, our paradigm has shifted multiple times over our known and

documented history, as new information has arisen, giving us a fresh view and a completely new

understanding of disease pathophysiology. However, the opposite may also be true as scientific

realism and Kuhn's hypothesis might not in fact be mutually exclusive: research also has a

cumulative side to it, as after each of Kuhn's 'revolutions', we embark on a new knowledge quest,

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a new exponential learning curve begins, and new information is now gradually accumulated,

until it again shall peak and revolutionize our understanding of the world in general and of

medicine in particular.

To ensure that research is in itself useful and communicated to the world, we must ensure that

the product of research, namely the scientific publication, is made available in its best possible

form. And this is where peer-review comes in. As no journal can have the sufficient manpower

and the necessary cumulated expertise to singlehandedly give a fair evaluation of each and every

one of the articles they receive, we as editors contact our peers, reaching out to the most

competent specialists, recognized experts in the specific topic of each individual article. The

peer-reviewers' expertise aids immensely in evaluating the correctness and completeness of the

information presented in each article, in improving the process of reporting research methods and

results, and in carefully contributing to the best possible presentation form for the articles

selected for publication.

During the past five years, within our working group, we have started two new medical journals,

and we have benefited from the expertise of over 250 peer-reviewers from over 70 countries in

selecting the best articles for publication. We started back in 2011 with the Infectious Diseases

publication 'Germs', which was among the first Romanian journals to use reputed international

manuscript management systems such as ScholarOne Manuscripts, and which has been accepted

for inclusion in international databases or repositories such as Scopus and PubMed Central,

shortly after completing its second year of publication.

'Journal of Contemporary Clinical Practice' soon followed in the steps of its predecessor,

maintaining the same set of high publication standards and the open access policy, while

adopting a wider scope, to respond to the request for knowledge from a larger pool of clinicians,

coming from different backgrounds and different specialties, all united through their vivid

interest in clinical topics, and in research that is translated into practice and moved from the

workbench to the patient's bedside.

We are now 5 years down the road and we continue to offer the same excellence in publication

services, and we have collaborated with authors from more than 20 countries for the successful

publication of their meaningful research.

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As we are now halfway through a new learning curve, as Thomas Kuhn would say, we can

probably expect a brand new technological and medical paradigm shift during the next five to ten

years, or multiples thereof, as new insight builds up and we are getting ready to open up to a

whole new era of medical research, medical peer-review and medical publication.

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