

TRANSLATIONAL RESEARCH

A Case Study by Manali Khawle, India

(PG Diploma in Hospital Administration, PhD in Clinical Research Student of Texila American University)

Email: mkhawle@gmail.com

SOURCE

Francesco M Marincola * J Transl Med. 2003; 1: 1. Translational Medicine: A two-way road
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INTRODUCTION

This review critically reviews the article ‘Translational Medicine: A two-way road ‘in the Journal of Translational Medicine of Biomed central. The review will first summarise the article. Secondly, it will briefly analyse the effectiveness of the article’s structure, investigating how the information is set out and whether the reader can access it efficiently. Thirdly, the review will critique the article, evaluating its authority, currency, accuracy, objectivity and coverage. The review will finally judge the article’s accessibility and credibility. Overall the article was well written, clear and relevant.

REVIEW OF LITERATURE

Translational research is generally described as the application of basic science discoveries to the treatment or prevention of disease or injury. Its value is usually determined based on the likelihood that exploratory or developmental research can yield effective therapies. Translational research encompasses the effective movement of new knowledge and discoveries into new approaches for prevention, diagnosis, and treatment of disease. There are many important in successful bench to bedside research, but regrettably Bed side to Bench side has kept aside. This article is discussing the two way roads of the translational research

ARTICLE SUMMARY

The purpose of the article is to explore the need and advantages of traditional medicine based research with public health. The article is concentrated on translational research methods authoritative knowledge that use in bench to bed side and bed side to bench side efforts in scientific aspect that can provide successful strategies to improve the health of human. The article discusses about translational research that has two way roads, viz Bench to Bed side and Bed to Bench side. According to article Bed side to Bench side is bit of neglected because scientific aspects are poorly understood by full time clinicians and the difficulty of dealing with humans poorly appreciated by basic scientists.

ARTICLE STRUCTURE

The article was introduced with an abstract, which provided the brief overview of main point's of translational research. The introduction for the article it describes article main points. The article was very short and therefore the information in each paragraph was easy to access, however there were only 3 body headings, these paragraph has mentioned the reason of relegated translational research in quite detailed information contained under each heading and also future collaboration for the research study. The article talked about Specific hurdles translational research challenges' in ethical and practical considerations, as the article described translational research it has also mentioned phases involve in translational research. The next paragraph of article mentioned reasons of failure. With the good example article showed methodology of translational research and mistakes and learning from the mistakes. In article's more effective collaboration mentioned responsibilities' of Governmental regulatory agencies, ethical committee in development of translational research. In end of the article the article mentioned a new journal of peer review and rapid research result in benefit if human and scientific community.

ARTICLE CRITIQUE

AUTHORITY

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ACCURACY

The source of the information in the article was from 2003 and before 2003. It was also backed up and supported by a comprehensive, recent reference list with these sources cited in-text to support both the literature review and the research itself. The strict editorial and refereeing processes also contributed to the article's accuracy as did the links to other expert sources (the journal for example).

CURRENCY

© 2003 Marincola; licensee BioMed Central Ltd. This is an Open Access article: verbatim copying and redistribution of this article are permitted in all media for any purpose. The article was published in 24 July 2003 Received in 17 June 2003 and while the article was accepted for publication in 24 July 2003. Article discussed about translational research and current scenario but after 2003 translational research is progressing the article was, but the focused topic is still important part in human health and translational medicine.

RELEVANCE

This article was from Journal of Translational Medicine are provided here courtesy of Biomed Central, which has high credibility in an academic context. It was written to inform researchers and students rather than to entertain. It would be relevant to both these groups but particularly any academic interested in all clinicians, Governmental regulatory agencies and ethical committee that involve in public health related programs.

OBJECTIVITY

The information was objectively developed, well supported with a current research base and with all evidence acknowledged and referenced. There was no evidence of bias, a fact that was reinforced by the recognition that the article documents research, be to encourage opportunities to pursue Bedside to Bench.

STABILITY

The article, with its source an academic journal on an academic data base is stable as a resource.

CONCLUSION

This review summarized and critically reviewed “Translational Medicine: A two-way road”. The content, structure, strengths and limitations of the article were analyzed and critiqued. The article has contributed to the literature in terms of its valuable critique of current research of translational research and current views and limitation of the research and health issues and the implications provided for both health interventions and future research collaborative possibilities. The article explained important aspects of translational research and evidence based medicine that helps in public health. Also article suggested future aspect to the translational research. Article mentioned about limitation, reasons of failure, scope of translational research and possible methodology for translational research. Article was based on all evidenced based report and researches. Article successfully explained the slightly neglected part of translational research that is Bed side to Bench side research technique. Article did not contain evidence and more research example in past years that’s why it was not more informative. Article met expectations of appear more fascinated with the modern mythology of transgenic and knock-out

preclinical than the clinical research or human disease. Thus, new ideas and related therapies based on genetically engineered results.

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