

## 60 - BIBLIOMETRIC ANALYSIS OF THE LITERATURE INDICATED IN THE BIBLIOGRAPHICAL REFERENCES OF THE PROGRAMS OF BASKETBALL SUBJECTS, IN THE COURSES OF PHYSICAL EDUCATION OF SANTA CATARINA

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### INTRODUCTION

In the State of Santa Catarina in 2005, 23 (twenty and three) courses of graduation in Physical Education existed, offered for 15 (fifteen) different Institutions of Superior Education, located in 20 (twenty) different cities.

It was evidenced that the discipline of Basketball is a constant in all these curriculums, once integrates the picture of the most practiced collective sports in the country.

Because of its frequency and the importance of the modality in the courses, it becomes necessary to know which literature that has been indicated to the students. The analysis of literature will facilitate the agreement, amongst other aspects, of the level of up to date of the material read for the students, what it will give support to understand as is being lead the education process and which is the initial formation supplied by the responsible one for the basketball topic.

Based on the exposed, it fits to question:

#### **What is the literature indicated in the programs of the discipline of basketball, in the superior courses of Physical Education of Santa Catarina?**

About the analysis of the bibliography used in the programs of the discipline of basketball, is asked:

Which is the most cited author in the bibliographical references?

Which is the average life of cited literature?

Which the boarded subjects, the language of the publication, the date of the publication, the number of authors, the source or bibliographical support of the literature enrolled in the bibliography of the programs of the disciplines?

### OBJECTIVES

#### **General objective**

To analyze by bibliometrics, the literature indicated in the programs of the discipline of basketball, in the superior courses of Physical Education of Santa Catarina.

#### **Specific objectives**

To identify the most cited author in the bibliographical references;

To determine the average life of cited literature;

To identify the boarded subjects, the language of the publication, the date of the publication, the number of authors, the source or bibliographical support of the literature enrolled in the bibliography of the programs of the discipline.

### ANALYSIS OF THE SCIENTIFIC PRODUCTION, BIBLIOMETRICS AND CITATION ANALYSIS

The increasing complexity of the informational environment is not only limited to the great volume of publications, but also to the variety of types of these publications. According to Campello and Magalhães (1997), until century XVII, the knowledge was only spread in the book form. With the growth of experimental science, a new product directed toward the diffusion of the knowledge appeared: the scientific periodic. After the periodic, had appeared other types of publications, as technician reports, works of congresses, official documents, not bibliographical material and, more recently, the electronic communication and publication, in which the information is disentailed of its traditional physical support.

It is basic to have itself clearly that the dissemination of the information happens because of the publications, that are fruit of the scientific production, more specifically, of scientific research. The Science of the Information fits to enclose the studies that look to quantify the processes of the written communication, applying specific numerical methods. In this investigation fits the bibliometrical techniques, that study the scientific productivity in quantitative terms. Along with Piñero apud Lima (1986) the objectives of the bibliometrics, while analysis statistics is: to analyze the size (extension, growth and distribution) of bibliographies and to study the social structure of the groups that produce and use scientific literature.

The bibliometrical studies, in general, are used to evaluate the scientific production, in this direction Witter, Población and Beranquet (1992) affirms that the evaluation makes possible the scientist to detect the emergent areas and the sub-areas where are occurring bigger productivity, greater progress, the contents, the approaches and the proper process of accomplishment of science in methodological terms.

A used procedure in the evaluation of the scientific production is the citation analysis that, according to Silva (1990), is a method that is part of the Bibliometrics and that it investigates the relations between citing documents and cited documents, in all or in parts. The citation analyses still relate ideas, individuals and seek areas, propitiating "identification of a highly selective layer in literature" (Braga apud Lima, 1984).

In Brazil the application of quantitative methods of analysis of the scientific production was initiated, around 1970, in the old Brazilian Institute of Bibliography and Documentation - IBBD, today the Brazilian Institute of Information in Science and Technology - IBICT, tied with the CNPq. These studies include, until the present, under the term Bibliometrics, all the quantitative analyses that, applying mathematical and statistical models and methods, consider to study the behavior and the effect of the registered information.

To follow, one presents in summary the main Brazilian works that involve scientific production in the area of physical education, described for Kroeff (2000), and enrolled in sequence chronological and, inside of it, in alphabetical sequence.

In the decade of 80, the works that if had detached had been: Canfield (1985); Juvêncio (1986); Faria Júnior (1987); Gaya (1987) e Gonçalves e Vieira (1989).

In the following decade, it continues the interest for the subject, having been elaborated works, as it follows: Silva (1990); Vieira (1990); Faria Junior (1991); VII Congresso Brasileiro de Ciências do Esporte - CONBRACE (1991); Sociedade Brasileira para o Desenvolvimento da Educação Física (1991); Faria Júnior (1992); Gaya, Marques e Bento (1992); Magro (1992); Sobral (1992); VIII CONBRACE (1993); Revista Brasileira de Ciências do Esporte (1993); Vaz, Pereira e Santos (1993);

Vaz e Pereira (1993); Revista Motrivivência (1994); Gaya (1994); Paiva (1994); De Rose, Canfield, Nahas Resende e Tani - Comissão CAPES (1997); Moura (1997); Nascimento e Krebs (1997); Silva (1997); Nascimento (1999); Kroeff (2000).

## MATERIALS AND METHODS

### Searched IES

The Institutions of Superior Education of the State of Santa Catarina had been part of the research that offer Course of Graduation in Physical Education, totalizing 23 (twenty and three) courses, offered for 15 (fifteen) different Institutions, located in 20 (twenty) different cities, follow the listing below:

Joinville	UNIVERSIDADE FEDERAL DE SANTA CATARINA - UFSC UNIVERSIDADE DA REGIÃO DE JOINVILLE - UNIVILLE INSTITUTO SUP. E CENTRO EDUC. LUTERANO BOM JESUS - IELUSC
Blumenau	FUNDAÇÃO UNIVERSIDADE REGIONAL DE BLUMENAU - FURB
Brusque	CENTRO UNIVERSITÁRIO DE BRUSQUE - UNIFEBE
Itajaí	UNIVALI
Criciúma	UNIVERSIDADE DO EXTREMO SUL DE SANTA CATARINA - UNESC
Concórdia	UNIVERSIDADE DO CONTESTADO - UNC
Mafra	UNIVERSIDADE DO CONTESTADO - UNC
Porto União	UNIVERSIDADE DO CONTESTADO - UNC
Caçador	UNIVERSIDADE DO CONTESTADO- UNC
Curitibanos	UNIVERSIDADE DO CONTESTADO- UNC
Lages	UNIVERSIDADE DO PLANALTO CATARINENSE - UNIPLAC FACVEST
São Miguel do Oeste	UNIVERSIDADE DO OESTE DE SANTA CATARINA - UNOESC
Videira	UNIVERSIDADE DO OESTE DE SANTA CATARINA - UNOESC
Xanxerê	UNIVERSIDADE DO OESTE DE SANTA CATARINA - UNOESC
Joaçaba	UNIVERSIDADE DO OESTE DE SANTA CATARINA - UNOESC
Chapecó	UNIVERSIDADE COMUNITÁRIA REGIONAL DE CHAPECÓ-UNOCHAPECÓ
Palhoça	UNIVERSIDADE DO SUL DE SANTA CATARINA - UNISUL
Tubarão	UNIVERSIDADE DO SUL DE SANTA CATARINA - UNISUL
Jaraguá do Sul	FACULDADE JANGADA

The volume of analyzed documented material was constituted of available documents in the studied courses and composed of the programs of the discipline of basketball (2004 /2005). One analyzed 21 programs of discipline, and 237 references indicated in the same ones. The analysis was carried through only in 21 programs, since in two of them (of the total of 23) the disciplines it of Basketball was not yet effectively given, because the courses was new and the curricular grating was being implemented to the few, when the students moved of phase (year and/or semester).

### Instruments and Procedures of Collection of the Data

For identification of the documents that characterize and guide the disciplines of Basketball, in the courses of Physical Education, had been analyzed the programs of disciplines.

For the analysis of literature indicated in the bibliography of the program of the discipline was developed an index of individual collection.

### Variables of research

The study of the literatures indicated for the professors, in bibliographies, of the plans of education of the discipline of basketball, enclosed the following variables: authorship, date of citation, date of publication, citation frequency, language, number of authors, bibliographical support and average life. To follow, it is pointed in sequence alphabetical, each one of items and its operationalization.

Authorship - responsible intellectual of the literature.

Date of citation - year where the literature was indicated in the program of disciplines (exactly year of the program).

Date of publication - year of publication of the literature cited in the bibliographical reference of the revised article.

Citation Frequency - occurrence number where it seems a bibliographical reference.

Language of the publication - original language of the cited document. It is gotten for the counting of the citation number in relation to the original language of the document: Portuguese, English, Spaniard and another one.

Number of authors - amount of responsible authors intellectually for the literature.

Subject - proposal that goes to be treated or to be demonstrated the subject.

Support or bibliographical source - document type or classroom. It is gotten through the counting of the citation number in relation to each type of bibliographical source.

Average Life of literature - difference enters the publication time of a document and the time of its citation. The calculation of the medium one is used to determine it.

### Procedure of analysis of the data

The analyzed programs, had been considered for research effect, in the bibliography form (the bibliographical material indicated by the professor).

The procedures for the collection of the data are described as follow.

Owning the programs, all the bibliographical references had been analyzed as the described steps to follow:

1) A time was counted to each citation, when considered the number of author (s), types of bibliographical sources, languages and dates.

2) One described the referring data to the types of bibliographical sources and the languages.

3) One commanded the dates of the year most recent to oldest verifying the existing difference between the date of publication of the document (t) and the date of citation represented for successive numbers 1,2,3 and, where T-0, T-1, T-2, T-3..., represent the difference between the date of the document base and of citation.

4) The time of life of citations was verified, for such it was calculated the medium, corresponding it to 50% of the total of the same ones. To organize the collection of data, the Word environment was used and a Excel spread sheet. The analysis of the data was made by descriptive statistics (absolute frequencies and percentage, and medium) with the appliance of bibliometrics

technique of citation analysis. The used software was the SPSS® version 13.0.

### RESULTS AND QUARREL

Of the identified authors ALMEIDA, M.B and DAIUTO, M. appear in first place with 18 indications each (7.6%). De ROSE JÚNIOR, D. appears in second, with 12 indications (5.1%). Follow table 1 below:

**Table 1:** Cited authors more in the education plans.

Author	Author Number	Frequency	Percentile
No authorship	0	45	19
ALMEIDA,M.B	3	18	7,6
DAIUTO, M	28	18	7,6
ROSE JR,D. de	73	12	5,1
CARVALHO,W	23	9	3,8
MELO,R.S	58	8	3,4
FERREIRA,A.E.X	37	6	2,5
COUTINHO,N.F	26	4	1,7
HERCHER,W	46	4	1,7
KUNZ,E	49	4	1,7
PEREIRA,C	65	4	1,7
VICENTE,J.P	84	4	1,7
WEINECK,J	86	4	1,7
GIORDANI,M	40	3	1,3
LUZ,N	54	3	1,3
POLLOCK,M.S	67	3	1,3
SOUZA,J.E.F	76	3	1,3
STROCKER,G	78	3	1,3
VARY,R	82	3	1,3
ASSIS,S	7	2	0,8

In a generalized manner the average life of the literature of the area of basketball turns around 10 years.

For specific area (subject) one met the following results: a) Training, average life of 23 years; b) Sport/Rhythmic/Recreation, average life of 9 years; c) Pedagogical, average life of 20 years.

The results lead to believe that brought up to date literature more in the programs is that one that approaches the sport in itself. The subject training seems to have motionless in the time and the innovations in that area presents have not been assimilated in the programs of the discipline of basketball in Santa Catarina. However it is possible that the use of classic literature has contributed for this result.

In the pedagogical area the result is interpreted of another form, gives credit that considered classic books are being used. One knows that by its very nature the innovations of the pedagogical area are given in slower rhythms than in the training area.

It is interesting to deepen this topic of study.

The most focused subject is the Sport/Rhythmic/Recreation, with 212 (89%) indications (publications between 1993 and 2003). The second most indicated subject is the training with 14 (5.9%) indications (majority of the literature from 1969 to 1980). See table 2.

**Table 2:** Subjects indicated for interval of years of the referred Literature.

Years of reference	Subjects	Sport/ Recreation/ Rhythmic				Total
		Training	Pedagogical	Psychological		
Not identified	2	30	1	1	34	
1969 - 1980	6	27	3		36	
1981 - 1992	3	52	5		60	
1993 - 2003	3	103	1		107	
Total	14	212	10	1	237	

The most suggested language in the literature is the Portuguese with 211 (89%) indications.

In its majority, the literature date from 1993 to 2003, being that this interval of time corresponds 45.1% of the indications. Table 3.

**Table 3:** Intervals of years of the indicated references.

Years of the Reference	Frequency	Percentile
Not Identified	34	14,3
1969 - 1980	36	15,2
1981 - 1992	60	25,3
1993 - 2003	107	45,1
Total	237	100,0

The majority, 216 (91.1%), of the indicated literature are written by two or three authors (5.9%). The multiple authorship if detaches in the indicated literature.

The only type of suggested bibliographical source in the programs was the book (printed matter or electronic) was not found no indication of reading of, for example, scientific article, work of scientific event or any another source.

### CONCLUSIONS

In a generalized manner the literature indicated in the programs of the discipline of basketball in the superior courses of physical education, in Santa Catarina, can be considered current, with the average life turning in lathe and ten years, however when analyzing itself it literature for specific subject met a preoccupying picture and that it suggests new bibliometrics studies in the area of the training, where the difference between the dates of publication and the dates of citation (indicated in the programs) of the literature is in its majority superior to the 20 years.

It was verified despite foreign literature is almost nonexistent on all the subjects, and that the indicated content is based on books, this fact can be the indicative of little update of the information passed to the students, since, is known that the more up

to date information are published first in scientific magazines, as well as is presented in scientific events. The books delay more to be reviewed, to be extended and reedited.

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#### ABSTRACT

Documentary research that it analyzed by bibliometriacs, the 237 different literature indicated in bibliographies of the programs of the discipline of basketball, in the superior courses of Physical Education of Santa Catarina. Specifically it was intended: It identified the more cited author; b) determined the average life of cited literature; c) it identified the boarded subjects, the language of the publication, the date of the publication, the number of authors and the bibliographical source of the enrolled literature. All the Institutions of Superior Education of the State of Santa Catarina had participated of the research that in 2004/2005 offered the Course of Graduation in Physical Education. The results had indicated that: ) the two authors had tied up to

as more cited, ALMEIDA, M.B and DAIUTO, M. both with 18 (7.6%) of the indications; b) the average life of literature is of 10 years; c) the subject most boarded was the sport with 212 (89%) indications; d) the Portuguese is the indicated language more in literature; e) the oldest literature indicated date of the 1957 and most current one of 2003; f) the source or bibliographical support more used is the book printed matter. The results point little innovation in the programs of the discipline of basketball, the indicated authors repeat itself frequently, the most boarded approach from 1969 to 2003 is the sport (practical porting, game, beddings, rules...), the reading of literature in other languages is not common, the book printed matter continues being main the informational support of the area.

**Keys-Words:** Citation analysis. Bibliometrics. Basketball.

### RESUME

Recherche documentaire qui a analysé au moyen de la bibliométrie, les 237 différents ouvrages indiqués dans les bibliographies des programmes des disciplines de basket-ball, dans les cours supérieurs d'Education Physique de Santa Catarina. En particulier, il s'agissait de : identifier les thèmes abordés, la langue de publication, la date de publication, le nombre d'auteurs et la source bibliographique des ouvrages répertoriés. Ont participé à la recherche les Institutions d'Enseignement Supérieur de l'Etat de Santa Catarina qui en 2004 / 2005 ont proposé un Cours de Licence en Education Physique. Les résultats ont montré que : a) deux auteurs les plus cités sont à égalité, ALMEIDA, M.B. et DAIUTO, M. tous les deux avec 18 (7,6%) indications ; b) l'existence moyenne de la littérature est de 10 ans ; c) le thème le plus abordé a été le sport avec 212 (89%) indications ; d) le portugais est la langue la plus indiquée dans la littérature ; e) l'ouvrage le plus ancien indiqué date de 1957 et le plus actuel de 2003 ; f) la source ou le support bibliographique le plus utilisé est le livre imprimé. Les résultats montrent peu d'innovation dans les programmes des disciplines de basket-ball, les auteurs indiqués reviennent avec fréquence, le point le plus abordé de 1969 à 2003 est le sport (pratique sportive, jeu, fondements, règles...), rare est la lecture d'ouvrages en d'autres langues, le livre imprimé continue d'être le principal support informationnel du domaine.

**Mots-clés :** Analyse de citations. Bibliométrie. Basket-ball.

### RESUMEN

Investigación documental que analizó a través de la bibliometría, las 237 diferentes obras indicadas en las bibliografías de los programas de las disciplinas de básquetbol, en las carreras superiores de Educación Física de Santa Catarina. Específicamente se pretendió: Identificar el autor más indicado; b) determinar la vida media de la literatura citada; c) identificar los temas abordados, el idioma de la publicación, el número de autores y la fuente bibliográfica de las obras clasificadas. Participaron de la investigación todas las Instituciones de Enseñanza Superior en Educación Física. Los resultados indicaron que: a) dos autores aparecen como los más mencionados, ALEIDA, M.B. y DAIUTO, M. ambos con 18 (7,6%) de las indicaciones; b) la vida media de la literatura es de 10 años; c) el tema más abordado fue el deporte, con 212 (89%) citaciones; d) el portugués es el idioma más indicado en la literatura; e) la obra más antigua mencionada data de 1957 y la más actual de 2003; f) la fuente o soporte bibliográfico más utilizado es el libro impreso. Los resultados indican poca innovación en los programas de las disciplinas de básquetbol, los autores indicados se repiten con frecuencia, el enfoque más abordado de 1969 a 2003 es el deporte (práctica deportiva, juego, fundamentos, reglas...) no es común la lectura de obras en otros idiomas, el libro impreso sigue siendo el principal soporte informativo del área.

**Palabras clave:** Análisis de citaciones. Bibliometría. Básquetbol.

### RESUMO

Pesquisa documental que analisou por meio da bibliometria, as 237 diferentes obras indicadas nas bibliografias dos programas das disciplinas de basquetebol, nos cursos superiores de Educação Física de Santa Catarina. Especificamente pretendeu-se: Identificou o autor mais citado; b) determinou a vida média da literatura citada; c) identificou os temas abordados, o idioma da publicação, a data da publicação, o número de autores e a fonte bibliográfica das obras arroladas. Participaram da pesquisa todas as Instituições de Ensino Superior do Estado de Santa Catarina que em 2004/2005 ofereciam Curso de Graduação em Educação Física. Os resultados indicaram que: a) dois autores empataram como mais citados, ALMEIDA, M.B. e DAIUTO, M. ambos com 18 (7,6%) das indicações; b) a vida média da literatura é de 10 anos; c) o tema mais abordado foi o desporto com 212 (89%) indicações; d) o português é o idioma mais indicado na literatura; e) a obra mais antiga indicada data de 1957 e a mais atual de 2003; f) a fonte ou suporte bibliográfico mais utilizado é o livro impresso. Os resultados apontam pouca inovação nos programas das disciplinas de basquetebol, os autores indicados se repetem com freqüência, o enfoque mais abordado de 1969 a 2003 é o desporto (prática desportiva, jogo, fundamentos, regras...), não é comum a leitura de obras em outros idiomas, o livro impresso continua sendo o suporte informacional principal da área.

**Palavras chaves:** Análise de citações. Bibliometria. Basquetebol.