



## OPEN ACCESS PHYSICAL EDUCATION JOURNALS ON DIRECTORY OF OPEN ACCESS JOURNALS (DOAJ): AN ANALYTICAL STUDY

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**Abstract:** The Directory of Open Access Journals (DOAJ) listed open access scientific and scholarly journals, that meet high quality standards by exercising peer-review or editorial quality control and are free to all from the time of publication based on the Budapest Open Access Initiative. Total 60 physical education journals are available on DOAJ, out of that 48 free online journals on Physical Education were browsed based on the English language through DOAJ and analyzed based on Country, Languages, Subject Headings, keywords, their accessibility and availability of Archives of online journals in Physical Education.

**Keywords:** Online Journals, Open Access, E-Journals, DOAJ, Sports, Education, Physical Education, Recreation

### Introduction:

The proliferation of freely accessible online journals, the development of subject specific pre- and e-print archives and collections of learning objects provides a very valuable supplement of scientific knowledge to the existing types of published scientific information (books, journals, databases etc.). However these valuable collections are difficult to overview and integrate in the library and information services provided by libraries for their user constituency. Open access journals as journals that use a funding model that does not charge readers or their institutions for access

### Open Access Journals

Open access means users can read, download, copy, distribute, print, search, or link to the full texts of these articles. Open access journals are scholarly journals that are available online to the reader "without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself". Open access journals (sometimes called the "gold road to open access") are one of the two general methods for providing open access. The other one (sometimes called the "green road") is self-archiving in a repository. The publisher of an open access journal is known as an "open access publisher", and the process, "open access publishing".

DOAJ (Directory of Open Access Journals)

At the First Nordic Conference on Scholarly Communication in Lund / Copenhagen (<http://www.lub.lu.se/ncsc2002>) the idea of

creating a comprehensive directory of Open Access Journals was discussed. The conclusion was that it would be a valuable service for the global research and education community. Available technologies make it possible to collect and organize these resources in a way that allow libraries worldwide to integrate these resources in existing services thus offering added value both for the service providers of these resources and for the global research and education community. Directory of Open Access Journals is a service that provides access to quality controlled Open Access Journals. The Directory aims to be comprehensive and cover all open access scientific and scholarly journals that use an appropriate quality control system, and it will not be limited to particular languages or subject areas. Directory of Open Access Journals is hosted, maintained and partly funded by Lund University Libraries Head Office. DOAJ is receiving funding from:

- Open Society Institute <http://www.osi.hu/infoprogram/>
- SPARC <http://www.arl.org/sparc/>
- SPARC Europe <http://www.sparceurope.org/>
- BIBSAM <http://www.kb.se/bibsam/>
- Axiell <http://www.axiell.se/>

As on 7 March 2017, 9,393 Journals are available, 6,766 searchable at Article level from 128 Countries and 2,437,844 Articles can be accessible full text.

### Objectives Of The Paper

- To enumerate the Free E-journals on Physical Education on DOAJ.
- To know the country wise distribution of E-journals for Physical Education on DOAJ.
- To find out the Language wise distribution of E-journals on Physical Education on DOAJ.
- To know the accessibility of Archives of E-journals on Physical Education on DOAJ.
- To know the usefulness and applicability of Physical Education E-journals to other disciplines

#### Method:

DOAJ (Directory of Open Access Journals) website (<http://www.doaj.org>) is browsed for the present paper. Physical Education E-journals were searched out and 48 journals were found on DOAJ. Total 48 Physical Education E-journals were analyzed based on Country wide, Languages, Subject Headings and accessibility of Archives of E-journal.

#### Limitation of the study :

The study is limited to Physical Education E-journals which is listed on Directory of Open Access Journal. For the present paper DOAJ data is accessible till date 02/03/2017. Total 60 physical education journals are available on DOAJ , out of that 48 free online journals on Physical Education were browsed and analyzed based on the English language. It is not possible to show all the online journals access so access of only one e-journal's full text article is shown at last as a screen snapshot.

#### Data Analysis and Interpretations:

Total 48 E-journals of Physical Education were analyzed based on Country wise, Languages, Subject Headings and accessibility of Archives of E-journals. The list of journals is annexures in supplementary table: 1 which enumerates the free online journals on Physical Education along with their URL so that any user can browse the e-journals directly by entering the URL in its address bar.

Table: 1 List of E-Journals on Physical Education on DOAJ

S.N	Title of E-Journals	URL	Starting year	ISSN No / EISSN No	Publisher
1.	ActaBiomedicaBrasiliensia	<a href="http://www.actabiomedica.com.br">http://www.actabiomedica.com.br</a>	2015	2236-0867 (Online)	Universidade Iguaçú <b>Society/Institution:</b> Universidade Iguaçú
2.	ActaFacultatisEducationisPhysicaeUniversitatisComeniana	<a href="http://www.degruyter.com/view/j/afepuc">http://www.degruyter.com/view/j/afepuc</a>	2016	0520-7371 (Print)	De GruyterOnline <b>Society/Institution:</b> Faculty of Physical Education and Sports, Comenius University in Bratislava
3.	ActaUniversitatisCarolinae: Kinanthropologica <i>AUC Kinanthropologica</i>	<a href="http://www.karolinum.cz/journals/kinanthropologica">http://www.karolinum.cz/journals/kinanthropologica</a>	2016	1212-1428 (Print); 2336-6052 (Online)	Karolinum Press <b>Society/Institution:</b> Charles University, Faculty of Physical Education and Sport
4.	ActaUniversitatisPalackiana eOlomucensis. Gymnica	<a href="http://gymnica.upol.cz">http://gymnica.upol.cz</a>	2009	1212-1185 (Print); 1213-8312 (Online)	<b>Ceased publication</b> <a href="#">ActaGymnica</a>
5.	Advances in Rehabilitation	<a href="http://www.degruyter.com/view/j/rehab">http://www.degruyter.com/view/j/rehab</a>	2015	1734-4948 (Online)	De Gruyter Open <b>Society/Institution:</b> Faculty of Rehabilitation,
6.	Arena : Journal of Physical Activities	<a href="http://www.uav.ro/jour/index.php/ajpa">http://www.uav.ro/jour/index.php/ajpa</a>	2013	2285-830X (Print)	Publisher: Aurel Vlaicu University
7.	<i>Brazilian Journal of Physical Education and Sport</i>	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1807-5509&amp;lng=en&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1807-5509&amp;lng=en&amp;nrm=iso</a>	2012	1807-5509 (Print); 1981-4690 (Online)	Escola de Educação Física e Esporte da Universidade de São Paulo (EFEUSP)
8.	Discobolul: Physical Education, Sports and Kinetotherapy Journal	<a href="http://www.unefs.ro/discobolulmagazine.php">http://www.unefs.ro/discobolulmagazine.php</a>	2017	1454-3907 (Print); 2286-3702 (Online)	Discobolul Publishing House <b>Society/Institution</b>
9.	<i>E-balonmano.com: Journal of Sports Sciences</i>	<a href="http://www.e-balonmano.com/ojs/index.php/revista/index">http://www.e-balonmano.com/ojs/index.php/revista/index</a>	2010	1885-7019 (Online)	University of Extremadura <b>Society/Institution:</b>
10.	Educación Física y Deporte	<a href="http://aprendeenlinea.udea">http://aprendeenlinea.udea</a>	2010	0120-677X	Publisher: Universidad de

		<a href="http://www.uevora.pt/~uevora/uevora/revistas/index.php/educacionfisicaydeporte">.edu.co/revistas/index.php/educacionfisicaydeporte</a>		(Print)	Antioquia
11.	E-Jurnal Physical Education, Sport, Health and Recreation	<a href="http://journal.unnes.ac.id/sju/index.php/peshr">http://journal.unnes.ac.id/sju/index.php/peshr</a>	2015	2252-6773 (Print); 2460-724X (Online)	UniversitasNegeri Semarang
12.	<i>European Journal of Physical Education and Sport</i>	<a href="http://ejournal7.com/en/index.html">http://ejournal7.com/en/index.html</a>	2015	2310-0133 (Print); 2409-1952 (Online)	Academic Publishing House Researcher
13.	Health Problems of Civilization	<a href="http://www.termedia.pl/Journal/Health_Problems_of_Civilization-99">http://www.termedia.pl/Journal/Health_Problems_of_Civilization-99</a>	2017	2353-6942 (Print); 2354-0265 (Online)	Publishing HouseSociety/Institution: Pope John Paul II State School In Higher Education in BialaPodlaska
14.	<i>Indonesian Journal of Physics Education</i>	<a href="http://journal.unnes.ac.id/nju/index.php/JPFI">http://journal.unnes.ac.id/nju/index.php/JPFI</a>	2015	1693-1246 (Print); 2355-3812 (Online)	Semarang State UniversitySociety/Institution : Physical Society of Indonesia, Yogyakarta, Central Java
15.	International Educational E-Journal	<a href="http://oijrj.org/oijrj/ejournal/">http://oijrj.org/oijrj/ejournal/</a>	2013	2277-2456 (Print)	International Educational E-Journal
16.	<i>International Journal of Medicine and Science of Physical Activity and Sport</i>	<a href="http://cdeporte.rediris.es/revista/revista.html">http://cdeporte.rediris.es/revista/revista.html</a>	2006	1577-0354 (Online)	CV Ciencias del DeporteRedIRIS Society/Institution: Universidad Autónoma de Madrid
17.	Journal of Education Faculty	<a href="http://studia.ubbcluj.ro/searii/educatio/">http://studia.ubbcluj.ro/searii/educatio/</a>	2013	1302-9312 (Print)	Erzincan University
18.	journal of Human Kinetics	<a href="http://www.degruyter.com/view/j/hukin">http://www.degruyter.com/view/j/hukin</a>	2015	1899-7562 (Online)	De GruyterOpenSociety/Institution: The Jerzy Kukuczka Academy of Physical Education in Katowice
19.	<i>Journal of Physical Education</i>	<a href="http://periodicos.uem.br/ojs/index.php/RevEducFis">http://periodicos.uem.br/ojs/index.php/RevEducFis</a>	2010	0103-3948 (Print); 1983-3083 (Online)	UniversidadeEstadual de Maringá
20.	Journal of Physical Education and Sport JPES	<a href="http://journal.unnes.ac.id/sju/index.php/jpes">http://journal.unnes.ac.id/sju/index.php/jpes</a> Peer review	2012	2247-8051 (Print); 2247-806X (Online)	University of Pitesti
21.	<i>Journal of Physical Education and Sport</i> <b>Continued by:</b> Journal of Physical Education and Sport	<a href="http://efsupit.ro/">http://efsupit.ro/</a>	2012	1582-8131 (Print); 2066-2483 (Online)	University of Pitesti
22.	<i>Journal of Physical Education and Sport Sciences</i>	<a href="http://dergi.nigde.edu.tr/index.php/besvodergi/index">http://dergi.nigde.edu.tr/index.php/besvodergi/index</a>	2010	1307-6477 (Print)	Publisher: Nigde University School of Physical Education and Sports
23.	Journal of Sport and Health Research	<a href="http://www.journalshr.com">http://www.journalshr.com</a>	2010	1989-6239 (Print)	Publisher: Didactic Association Andalucia
24.	JPES (Journal of Physical Education and Sports)	<a href="http://efsupit.ro/">http://efsupit.ro/</a>	2015	2252-648X (Print)	UniversitasNegeri Semarang
25.	Materiales para la HistoriadelDeporte	<a href="http://www.upo.es/revistas/index.php/materiales_historia_deporte/">http://www.upo.es/revistas/index.php/materiales_historia_deporte/</a>	2013	1887-9586 (Print); 2340-7166 (Online)	Publisher: Universidad Pablo de Olavide Society/Institution: Departamento de Deporte e Informática
26.	Motricidade	<a href="http://revistas.rcaap.pt/motricidade">http://revistas.rcaap.pt/motricidade</a>	2010	1646-107X (Print); 2182-2972 (Online)	DesafioSingularSociety/Institution: Universidade da Beira Interior
27.	Motriz: Revista de EducacaoFisica	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=19806574&amp;lng=en&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=19806574&amp;lng=en&amp;nrm=iso</a>	2012	1980-6574 (Online)	UniversidadeEstadualPaulista
28.	Ovidius University Annals, Series Physical Education and Sport/Science, Movement and Health	<a href="http://www.analefeffs.ro/en/">http://www.analefeffs.ro/en/</a>	2009	1224-7359 (Print)	Ovidius University Press Society/Institution: Ovidius University of Constanta
29.	<i>Palestrica of the Third Millennium : Civilization and Sport</i>	<a href="http://www.pm3.ro">http://www.pm3.ro</a>	2013	1582-1943 (Print); 2247-7322 (Online)	EdituraMedicalăUniversitară IuliuHatieganu
30.	Pedagogika, Psihologiã ta Mediko-	<a href="http://www.sportpedagogy.org.ua">http://www.sportpedagogy.org.ua</a>	2011	1818-9172 (Print); 1818-	Kharkov National Pedagogical University

	biološkiProblemiFizičnog Vihovannâ i Sportu			9210(Online)	
31.	<i>Physical &amp; Health Education Nexus</i>	<a href="http://ojs.acadiu.ca/index.php/phenex/index">http://ojs.acadiu.ca/index.php/phenex/index</a>	2010	1918-8927 (Online)	Publisher: Physical and Health Education Canada
32.	Physical Culture	<a href="http://www.fizickakultura.com/">http://www.fizickakultura.com/</a>	2013	0350-3828 (Print); 2217-947X (Online)	University of Belgrade
33.	Physical Education of Students	<a href="http://www.sportedu.org.ua">http://www.sportedu.org.ua</a>	2011	2075-5279 (Print); 2223-2125(Online)	Kharkov Regional Branch of the National Olympic Committee of Ukraine
34.	Physical Review Physics Education Research	<a href="http://journals.aps.org/prper">http://journals.aps.org/prper</a>	2016	2469-9896 (Online)	American Physical Society
35.	Physical Review Special Topics. Physics Education Research	<a href="http://prst-per.aps.org/">http://prst-per.aps.org/</a>	2007	1554-9178 (Online)	American Physical Society
36.	Polish Journal of Sport and Tourism	<a href="http://www.degruyter.com/view/j/pjst">http://www.degruyter.com/view/j/pjst</a>	2011	2082-8799 (Online)	De Gruyter Open
37.	Retos: NuevasTendencias en EducaciónFísica, Deportes y Recreación Retos	<a href="http://recyt.fecyt.es/index.php/retos/index">http://recyt.fecyt.es/index.php/retos/index</a>	2016	1579-1726 (Print); 1988-2041 (Online)	FEADEF Society/Institution: Federación Española de Docentes de EducaciónFísica
38.	RevistaBrasileira de Ciências do Esporte	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0101-3289&amp;lng=en&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0101-3289&amp;lng=en&amp;nrm=iso</a>	2012	0101-3289 (Print); 2179-3255 (Online)	Publisher: ColégioBrasileiro de Ciências do Esporte
39.	RevistaBrasileira de Cineantropometria e DesempenhoHumano	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1980-0037&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1980-0037&amp;lng=pt&amp;nrm=iso</a>	2017	1415-8426 (Print); 1980-0037 (Online)	Universidade Federal de Santa Catarina
40.	Revista de ArtesMarcialesAsiáticas Rev. ArtesMarcialesAsiáticas.	<a href="http://revpubli.unileon.es/ojs/index.php/artesmarciales/">http://revpubli.unileon.es/ojs/index.php/artesmarciales/</a>	2013	2174-0747 (Print)	Universidad de LeónSociety/Institution: Department of Physical Education and Sports
41.	<i>Russian Journal of Physical Education and Sport</i>	<a href="http://www.journal-science.org/en/">http://www.journal-science.org/en/</a>	2016	2070-4798 (Online)	Publisher: NaberezhnyeChelny State Pedagogical University
42.	<i>Scientific Technical Journal</i>	<a href="http://www.sportis.es/revista/index.php/ScientificTJ/index">http://www.sportis.es/revista/index.php/ScientificTJ/index</a>	2015	2386-8333 (Online)	Universidad de A CoruñaSociety/Institution: Universidad de A Coruña
43.	Slobožans'kijNaukovo-SportivnijVisnik	<a href="http://journals.uran.ua/index.php/1991-0177">http://journals.uran.ua/index.php/1991-0177</a>	2014	1991-0177 (Print); 1999-818X (Online)	Kharkiv State Academy of Physical Culture
44.	<i>Sport and Society : Interdisciplinary Journal of Physical Education and Sport</i>	<a href="http://www.sportis.es/revista/index.php/ScientificTJ/index">http://www.sportis.es/revista/index.php/ScientificTJ/index</a>	2012	1582-2168 (Print)	AlexandruIoanCuza University of Iasi
45.	StudiaEducatioArtisGymnasticae	<a href="http://studia.ubbcluj.ro/sepii/educatio/">http://studia.ubbcluj.ro/sepii/educatio/</a>	2013	1453-4223 (Print); 2065-9547 (Online)	Cluj University Press
46.	Timisoara Physical Education and Rehabilitation Journal	<a href="http://www.tperj.ro/en/">http://www.tperj.ro/en/</a>	2013	2065-0574 (Print)	Mirton Publishing
47.	UniversitasCiências da Saúde	<a href="http://publicacoesacademicas.uniceub.br/index.php/cienciasaude">http://publicacoesacademicas.uniceub.br/index.php/cienciasaude</a>	2015	1678-5398 (Print); 1981-9730 (Online)	Centro Universitário de Brasília Society/Institution: UniCEUB
48.	VIREF Revista de EducaciónFísica	<a href="http://aprendeenlinea.udea.edu.co/revistas/index.php/viref/index">http://aprendeenlinea.udea.edu.co/revistas/index.php/viref/index</a>	2013	2322-9411 (Print)	Universidad de Antioqui

Table No. 2 Year wise growth of Physical Education Journals on DOAJ

Year	No of Physical Education Journals
2006	01
2007	01
2009	02
2010	07
2011	03
2012	06
2013	10
2014	01
2015	09
2016	05
2017	03

Table 2 shows the year wise growth of Open Access Physical Education Journals. In total 48 journals which are accessible by English language on DOAJ. Out of 48 Journals maximum 10 journals starting from 2013 followed by in the year of 2015 9 journals. In the recent year i.e. 2017, 3 journals also started their publication and registered in DOAJ.

Table: 3 Country wise Distribution of E-Journals on Physical Education

S.N	Name of the E-Journals	Place of Publication
1	Acta Biomedica Brasiliensia	Brazil
2	Acta Facultatis Educationis Physicae Universitatis Comenianae	Slovakia
3	Acta Universitatis Carolinae: Kinanthropologica AUC Kinanthropologica	Czech Republic
4	Acta Universitatis Palackianae Olomucensis Gymnica	Czech Republic
5	Advances in Rehabilitation	Poland
6	Arena : Journal of Physical Activities	Romania
7	Brazilian Journal of Physical Education and Sport	Turkey
8	Discobolul: Physical Education, Sports and Kinetotherapy Journal	Romania
9	E-balonmano.com: Journal of Sports Sciences	Romania
10	Educación Física y Deporte	Spain
11	E-Jurnal Physical Education, Sport, Health and Recreation	Indonesia
12	European Journal of Physical Education and Sport	Russian Federation
13	Health Problems of Civilization	Poland
14	Indonesian Journal of Physics Education	India
15	International Educational E-Journal	Turkey
16	International Journal of Medicine and Science of Physical Activity and Sport	Poland
17	Journal of Education Faculty	Romania
18	journal of Human Kinetics	Spain
19	Journal of Physical Education	Indonesia
20	Journal of Physical Education and Sport JPES	Indonesia
21	Journal of Physical Education and Sport Continued by: Journal of Physical Education and Sport	Spain
22	Journal of Physical Education and Sport Sciences	Brazil
23	Journal of Sport and Health Research	Romania
24	JPES (Journal of Physical Education and Sports)	Portugal
25	Materiales para la Historia del Deporte	Romania
26	Motricidade	Portugal
27	Motriz: Revista de Educacao Fisica	Romania
28	Ovidius University Annals, Series Physical Education and Sport/Science, Movement and Health	Romania
29	Palestrica of the Third Millennium : Civilization and Sport	Romania
30	Pedagogika, Psihologija ta Mediko-biologični Problemi Fizičnogo Vihovannâ i Sportu	Ukraine
31	Physical & Health Education Nexus	Canada
32	Physical Culture	Serbia
33	Physical Education of Students	Ukraine
34	Physical Review Physics Education Research	United States
35	Physical Review Special Topics. Physics Education Research	United States
36	Polish Journal of Sport and Tourism	Poland
37	Retos: Nuevas Tendencias en Educación Física, Deportes y Recreación Retos	Spain
38	Revista Brasileira de Ciências do Esporte	Brazil
39	Revista Brasileira de Cineantropometria e Desempenho Humano	Brasil
40	Revista de Artes Marciales Asiáticas Rev. Artes Marciales Asiáticas	Spain
41	Russian Journal of Physical Education and Sport	Russian

		Federation
42	Sport: Scientific Technical Journal	Spain
43	Slobožans'kij Naukovo-Sportivnij Visnik	Ukraine
44	<i>Sport and Society : Interdisciplinary Journal of Physical Education and Sport</i>	Romania
45	Studia Educatio Artis Gymnasticae	Romania
46	Timisoara Physical Education and Rehabilitation Journal	Romania
47	Universitas Ciências da Saúde	Brazil
48	VIREF Revista de Educación Física	Colombia

Table 2 depicts the country wise distribution of E-journals on Physical Education on DOAJ.

Table-2.1 Analysis of Country wise Distribution of E-Journals on Physical Education

S.N.	Name of the Country	No. of E-journals	Rank
1	Brazil	05	3
2	Canada	01	7
3	Czech Republic	02	6
4	India	01	7
5	Indonesia	03	5
6	Poland	04	4
7	Portugal	02	6
8	Romania	12	1
9	Russian Federation	02	6
10	Serbia	01	7
11	Slovakia	01	7
12	Spain	06	2
13	Turkey	02	6
14	Ukraine	03	5
15	United States	02	6

Table 2.1 depicts the country wise distribution of Open access Physical Education journals on DOAJ. Romania was in 1st rank due to publication of 12 e-journals followed by Spain i.e. 6 journals. Brazil which has published 5 E-journals is on 3<sup>rd</sup> rank. It can also be observed the India is having only 1 journal on DOAJ for Physical Education. Indian journals should take some initiatives to register in open access platform for easy access to scholarly communication.

Table: 3 Language wise Distribution of E-Journals on Physical Education

S.N.	Name of the E-Journals	Language
1	Acta Biomedica Brasiliensia	Portuguese, English
2	Acta Facultatis Educationis Physicae Universitatis Comenianae	English
3	Acta Universitatis Carolinae: Kinanthropologica AUC Kinanthropologica	English
4	Acta Universitatis Palackianae Olomucensis. Gymnica	English
5	Advances in Rehabilitation	Polish, English
6	Arena : Journal of Physical Activities	English
7	Brazilian Journal of Physical Education and Sport Sciences	Turkish, English
8	Discobolul: Physical Education, Sports and Kinetotherapy Journal	English
9	E-balonmano.com: Journal of Sports Sciences	Portuguese, Spanish; Castilian, English
10	Educación Física y Deporte	Portuguese, Spanish; Castilian, English
11	E-Jurnal Physical Education, Sport, Health and Recreation	Indonesian, English
12	European Journal of Physical Education and Sport	Russian, English
13	Health Problems of Civilization	English
14	Indonesian Journal of Physics Education	Indonesian, English
15	International Educational E-Journal	English
16	International Journal of Medicine and Science of Physical Activity and Sport	Spanish; Castilian, English
17	Journal of Education Faculty	Turkey, English
18	Journal of Human Kinetics	English
19	Indonesian Journal of Physical Education	Indonesian, English
20	Journal of Physical Education and Sport JPES	Romanian, English
21	Journal of Physical Education and Sport Continued by: Journal of Physical Education and Sport	Indonesian, English
22	Journal of Physical Education and Sport Sciences	Indonesian, English
23	Journal of Sport and Health Research	Spanish; Castilian, English
24	JPES (Journal of Physical Education and Sports)	Indonesian, English
25	Materiales para la Historia del Deporte	Portuguese, Spanish; Castilian, English
26	Motricidade	Portuguese, English

27	Motriz: Revista de EducacaoFisica	Portuguese, English
28	Ovidius University Annals, Series Physical Education and Sport/ Science, Movement and Health	English
29	<i>Palestrica of the Third Millennium : Civilization and Sport</i>	Romanian, French, English
30	Pedagogika, Psihologjã ta Mediko-biologičniProblemiFizičnogovihovannã i Sportu	Russian, Ukrainian, English
31	<i>Physical &amp; Health Education Nexus</i>	French, English
32	Physical Culture	Serbian, English
33	Physical Education of Students	Russian, English
34	Physical Review Physics Education Research	English
35	Physical Review Special Topics. Physics Education Research	English
36	Polish Journal of Sport and Tourism	Polish, English
37	Retos: NuevasTendencias en EducaciónFisica, Deportes y Recreación Retos	Spanish; Castilian, English
38	RevistaBrasileira de Ciências do Esporte	Portuguese, Spanish; Castilian, English
39	RevistaBrasileira de Cineantropometria e DesempenhoHumano	Portuguese, English
40	Revista de ArtesMarcialesAsiáticas Rev. ArtesMarcialesAsiát.	Portuguese, Spanish; Castilian, English
41	<i>Russian Journal of Physical Education and Sport</i>	Russian, English
42	Scientific Technical Journal	Spanish; Castilian, English
43	Slobožans'kijNaukovo-SportivnijVisnik	Russian, Ukrainian, English
44	<i>Sport and Society : Interdisciplinary Journal of Physical Education and Sport</i>	Romanian, English
45	StudiaEducatioArtisGymnasticae	Romanian, French, English
46	Timisoara Physical Education and Rehabilitation Journal	English
47	UniversitasCiências da Saúde	Portuguese, Spanish; Castilian, English
48	VIREF Revista de EducaciónFisica	Spanish; Castilian, English

Table No.3.1 Analysis of Language wise Distribution of E-Journals on Physical Education

S.N.	Languages	No. of E-journals	Rank
1	English	12	1
2	French, English	01	7
3	Indonesian, English	06	2
4	Polish, English	02	6
5	Portuguese, English	04	4
6	Portuguese, Spanish; Castilian, English	06	2
7	Romanian, English	02	6
8	Romanian, French, English	02	6
9	Russian, English	03	5
10	Russian, Ukrainian, English	02	6
11	Serbian, English	01	7
12	Spanish; Castilian, English	05	3
13	Turkey, English	02	6

Table 3 and 3.1 gives the information about the publication language of the E-journals on Physical Education. English is the most common communication language to spread the knowledge in all over the world which is used by all 48 E-journals. Out of 48 e-journals on Physical Education Indonesian., Portuguese, Spanish and Castilian published most of the journals. From French and Serbian language only 1 journal is published.

Table No. 4 Distributions of Subject Headings of E-Journals on Physical Education

S.N	Name of the E-Journals	Subject Headings
1	ActaBiomedicaBrasiliensia	Medicine -Physical Science-Biology (General)
2	ActaFacultatisEducationisPhysicaeUniversitatisComenianae	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
3	ActaUniversitatisCarolinae: KinanthropologicaAUCKinanthropologica	Geography. Anthropology. Recreation: Recreation. Leisure: Sports   Medicine: Internal medicine: Special situations and conditions: Sports medicine
4	ActaUniversitatisPalackianaOlomucensis.Gymnica	Medicine: Internal medicine: Special situations and conditions: Sports medicine
5	Advances in Rehabilitation	Medicine
6	Arena : Journal of Physical Activities	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
7	<i>Brazilian Journal of Physical Education and SportSciences</i>	Anthropology. Recreation: Recreation. Leisure: Sports
8	Discobolul: Physical Education, Sports and Kinetotherapy Journal	Geography. Anthropology. Recreation: Recreation. Leisure: Sports

9	<i>E-balonmano.com: Journal of Sports Sciences</i>	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
10	Educación Física y Deporte	Education: Special aspects of education   Geography. Anthropology. Recreation: Recreation. Leisure: Sports
11	E-Jurnal Physical Education, Sport, Health and Recreation	Geography. Anthropology. Recreation: Recreation. Leisure:
12	European Journal of Physical Education and Sport	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
13	Health Problems of Civilization	Medicine
14	<i>Indonesian Journal of Physics Education</i>	Education: Education (General)   Science: Physics
15	International Educational E-Journal	Education: Education (General)
16	<i>International Journal of Medicine and Science of Physical Activity and Sport</i>	Geography. Anthropology. Recreation: Recreation. Leisure: Sports   Medicine: Internal medicine: Special situations and conditions: Sports medicine
17	Journal of Education Faculty	Education: Education (General)
18	journal of Human Kinetics	Medicine: Internal medicine: Special situations and conditions: Sports medicine
19	Indonesian Journal of Physical Education	Education: Education (General)   Science: Physics
20	Journal of Physical Education and Sport JPES	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
21	<i>Journal of Physical Education and Sport</i> <b>Continued by:</b> Journal of Physical Education and Sport	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
22	<i>Journal of Physical Education and Sport Sciences</i>	Education: Education (General)   Geography. Anthropology. Recreation: Recreation. Leisure: Sports
23	Journal of Sport and Health Research	Medicine: Internal medicine: Special situations and conditions: Sports medicine
24	JPES (Journal of Physical Education and Sports)	Education: Education (General)   Geography. Anthropology. Recreation: Recreation. Leisure: Sports
25	Materiales para la Historia del Deporte	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
26	Motricidade	Medicine: Internal medicine: Special situations and conditions: Sports medicine
27	Motriz: Revista de Educação Física	Geography. Anthropology. Recreation: Recreation. Leisure: Sports   Medicine: Internal medicine: Special situations and conditions: Sports medicine
28	Ovidius University Annals, Series Physical Education and Sport/Science, Movement and Health	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
29	<i>Palestrica of the Third Millennium : Civilization and Sport</i>	Geography. Anthropology. Recreation: Recreation. Leisure: Sports   Education: Education (General)
30	Pedagogika, Psihologija ta Mediko-biologični Problemi Fizičnogo Vihovannâ i Sportu	Medicine: Internal medicine: Special situations and conditions: Sports medicine
31	<i>Physical &amp; Health Education Nexus</i>	Education: Special aspects of education   Geography. Anthropology. Recreation: Recreation. Leisure: Sports
32	Physical Culture	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
33	Physical Education of Students	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
34	Physical Review Physics Education Research	Education: Special aspects of education
35	Physical Review Special Topics. Physics Education Research	Education: Special aspects of education
36	Polish Journal of Sport and Tourism	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
37	Retos: Nuevas Tendencias en Educación Física, Deportes y Recreación <i>Retos</i>	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
38	Revista Brasileira de Ciências do Esporte	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
39	Revista Brasileira de Cineantropometria e Desempenho Humano	Geography. Anthropology. Recreation: Recreation. Leisure: Sports   Medicine: Medicine (General)
40	Revista de Artes Marciales Asiáticas <i>Rev. Artes Marciales Asiáticas</i>	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
41	<i>Russian Journal of Physical Education and Sport</i>	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
42	Sport Scientific Technical Journal	Education: Education (General)
43	Slobožans'kij Naukovo-Sportivnij Visnik	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
44	<i>Sport and Society : Interdisciplinary Journal of Physical</i>	Geography. Anthropology. Recreation: Recreation.



	<i>Education and Sport</i>	Leisure: Sports
45	StudiaEducatioArtisGymnasticae	Education: Special aspects of education   Geography. Anthropology. Recreation: Recreation. Leisure: Sports
46	Timisoara Physical Education and Rehabilitation Journal	General Works
47	UniversitasCiências da Saúde	Medicine: Public aspects of medicine
48	VIREF Revista de EducaciónFísica	Geography. Anthropology. Recreation: Recreation. Leisure: Sports

Table.4 shows the interdisciplinary scope of the online-journals of Physical Education. Physical Education E-journals can also be used in Medicine, Geography. Anthropology, Education and Science.

Table no 4.1 Analysis of Subject Headings of E-Journals on Physical Education

S.N.	Subject Headings	No. of E-journals
1	Anthropology, Recreation: Leisure: Sports	01
2	Education: Education (General)	03
3	Education: Education (General)   Geography. Anthropology. Recreation: Recreation. Leisure: Sports	02
4	Education: Education (General)   Science: Physics	02
5	Education: Special aspects of education	02
6	Education: Special aspects of education   Geography. Anthropology. Recreation: Recreation. Leisure: Sports	03
7	General Works	01
8	Geography. Anthropology. Recreation: Recreation. Leisure:	02
9	Geography. Anthropology. Recreation: Recreation. Leisure: Sports   Medicine: Internal medicine: Special situations and conditions: Sports medicine	03
10	Geography. Anthropology. Recreation: Recreation. Leisure: Sports	15
11	Geography. Anthropology. Recreation: Recreation. Leisure: Sports   Education: Education (General)	01
12	Medicine	02
13	Medicine -Physical Science-Biology (General)	01
14	Medicine: Internal medicine: Special situations and conditions: Sports medicine	05
15	Medicine: Public aspects of medicine	01

Table 4.1 shows the analysis of Subject Headings of E-Journals on Physical Education. Geography. Anthropology. Recreation: Recreation. Leisure: Sports are favored subject headings for Physical Education journals. Physical Education Journals can also be used for Medicine subject and Education. It shows the multidisciplinary approach of the physical education journals.

Table No.5 Subject Keywords of Online Physical Education Journals on DOAJ

S.N.	Name of the E-Journals	Keywords
1	ActaBiomedicaBrasiliensia	biomedical sciences, biological sciences, nursing, physical education, physiotherapy, dentistry
2	ActaFacultatisEducationisPhysicaeUniversitatisComenianae	kinesiology, exercise physiology, physical education, sports training, recreation, sports history and psychology
3	ActaUniversitatisCarolinae: KinanthropologicaAUCKinanthropologica	sports, health, education
4	ActaUniversitatisPalackianaeOlomucensis.Gymnica	kinanthropology, public health, biomechanics, physiotherapy, sports science, physical education
5	Advances in Rehabilitation	physiotherapy, health sciences, physical therapy, adapted physical activity, rehabilitation
6	Arena : Journal of Physical Activities	physical education, gymnastics
7	Brazilian Journal of Physical Education and SportSciences	physical education, sports, training, exercise
8	Discobolul: Physical Education, Sports and Kinetotherapy Journal	science, sports, physical education, kinetotherapy
9	E-balonmano.com: Journal of Sports Sciences	physical activity for health, physical education, performance analysis in sport, social science applied to sport, biomedics science applied to sport
10	EducaciónFísica y Deporte	physical education, sport, physical activity, sports management, leisure, recreation
11	E-Jurnal Physical Education, Sport, Health and Recreation	physical education, sport, health and recreation
12	European Journal of Physical Education and Sport	sports, training, athletes, physical education
13	Health Problems of Civilization	Health Problems, WHO, Civilization, FAO, Physical activity, social
14	Indonesian Journal of Physics Education	
15	International Educational E-Journal	education, physical education
16	International Journal of Medicine and Science of Physical Activity and Sport	sports medicine, sports science, physical education, physical activity
17	Journal of Education Faculty	early childhood education, physical education,

		philosophy of education, pedagogy
18	journal of Human Kinetics	kinesiology, sports training, exercise physiology, sports medicine, human movement
19	Indonesian Journal of Physical Education	physical education, education
20	Journal of Physical Education and Sport JPES	sport science, physical education, biomechanics, kinesiology, coaching, adapted physical activity
21	<i>Journal of Physical Education and Sport</i> Continued by: Journal of Physical Education and Sport	sport science, physical education, biomechanics, kinesiology, coaching, adapted physical activity
22	<i>Journal of Physical Education and Sport Sciences</i>	sports, physical education
23	Journal of Sport and Health Research	physical activity, health science, physical education
24	JPES (Journal of Physical Education and Sports)	physical education, sports, health sciences
25	Materiales para la HistoriadelDeporte	sports history, physical education, physical exercise, anthropology, sociology, sports
26	Motricidade	sport science, health science, human development, physical activity, Sports medicine, physical education
27	Motriz: Revista de EducacaoFisica	: sports, physical education, physiotherapy, sports psychology, athletic performance, physiological processes
28	Ovidius University Annals, Series Physical Education and Sport/Science, Movement and Health	sport, performance, physical education, kinetotherapy, management in sport
29	<i>Palestrica of the Third Millennium : Civilization and Sport</i>	medicine, exercise, biomechanics of movement, social science, physical education
30	Pedagogika, Psihologija ta Mediko-biologičniProblemiFizičnogoVihovannā i Sportu	physical education, medicine, biology, physical recreation
31	<i>Physical &amp; Health Education Nexus</i>	physical education, physical activity, health education, sport coaching
32	Physical Culture	sports science, physical education
33	Physical Education of Students	health, physical education, physical rehabilitation
34	Physical Review Physics Education Research	physics education research, teaching physics, learning physics
35	Physical Review Special Topics. Physics Education Research	: learning physics, physics education research, teaching physics
36	Polish Journal of Sport and Tourism	sports science, physical education
37	Retos: NuevasTendencias en EducaciónFisica, Deportes y Recreación <i>Retos</i>	physical education, exercise science, sports, pedagogy, movement science, recreation
38	RevistaBrasileira de Ciências do Esporte	physical education, sport science
39	RevistaBrasileira de Cineantropometria e DesempenhoHumano	kinesiology, sports, physical activity, body composition, motor activity, physical education
40	Revista de ArtesMarcialesAsiáticas <i>Rev. ArtesMarcialesAsiát.</i>	martial arts, combat sports, sport sciences, physical education, sport
41	<i>Russian Journal of Physical Education and Sport</i>	physical education, sport
42	Sport Scientific Technical Journal	psychomotricity, school sport, physical education
43	Slobožans'kijNaukovo-SportivnijVisnik	physical culture, sports, rehabilitation and physical recreation., human health, physical education
44	<i>Sport and Society : Interdisciplinary Journal of Physical Education and Sport</i>	Geography. Anthropology. Recreation: Recreation. Leisure: Sports
45	StudiaEducatioArtisGymnasticae	physical education, sport, physical therapy, kinetotherapy, movement science
46	Timisoara Physical Education and Rehabilitation Journal	physical education, sport, sport medicine, physical therapy, rehabilitation
47	UniversitasCiências da Saúde	biomedicine, nutrition, physical education, physiotherapy, psychology, nursing
48	VIREF Revista de EducaciónFisica	physical education, recreation, sport, physical exercise, motor development, sport training

Table no 5.1 Analysis of Subject Keywords of E-Journals on Physical Education

S.N.	Subject Keywords	No. of E-journals
1	Biomedicine, nutrition, physical education, physiotherapy, psychology, nursing	01
2	Biomedical sciences, biological sciences, nursing, physical education, physiotherapy, dentistry	01
3	Early childhood education, physical education, philosophy of education, pedagogy	01
4	Education, physical education	01
5	Geography. Anthropology. Recreation: Recreation. Leisure: Sports	01
6	Health Problems, WHO, Civilization, FAO, Physical activity, social	01
7	Health, physical education, physical rehabilitation	01
8	Kinanthropology, public health, biomechanics, physiotherapy, sports science, physical education	01
9	Kinesiology, exercise physiology, physical education, sports training, recreation, sports history and psychology	01
10	Kinesiology, sports training, exercise physiology, sports medicine, human movement	01
11	Kinesiology, sports, physical activity, body composition, motor activity, physical education	01
12	Learning physics, physics education research, teaching physics	01
13	Martial arts, combat sports, sport sciences, physical education, sport	01
14	Medicine, exercise, biomechanics of movement, social science, physical education	01
15	Physical activity for health, physical education, performance analysis in sport, social science applied to sport, biomedics science applied to sport	01
16	Physical activity, health science, physical education	01
17	Physical culture, sports, rehabilitation and physical recreation., human health, physical education	01
18	Physical education, education	01
19	Physical education, exercise science, sports, pedagogy, movement science, recreation	01
20	Physical education, gymnastics	01
21	Physical education, medicine, biology, physical recreation	01
22	Physical education, physical activity, health education, sport coaching	01
23	Physical education, recreation, sport, physical exercise, motor development, sport training	01
24	Physical education, sport	01
25	Physical education, sport science	01
26	Physical education, sport, health and recreation	01
27	Physical education, sport, physical activity, sports management, leisure, recreation	01
28	Physical education, sport, physical therapy, kinetotherapy, movement science	01
29	Physical education, sport, sport medicine, physical therapy, rehabilitation	01
30	Physical education, sports, health sciences	01
31	Physical education, sports, training, exercise	01
32	Physics education research, teaching physics, learning physics	01
33	Physiotherapy, health sciences, physical therapy, adapted physical activity, rehabilitation	01
34	Psychomotricity, school sport, physical education	01
35	Science, sports, physical education, kinetotherapy	01
36	Sport science, health science, human development, physical activity, Sports medicine, physical education	01
37	Sport science, physical education, biomechanics, kinesiology, coaching, adapted physical activity	01
38	Sport science, physical education, biomechanics, kinesiology, coaching, adapted physical activity	01
39	Sport, performance, physical education, kinetotherapy, management in sport	01
40	Sports history, physical education, physical exercise, anthropology, sociology, sports	01
41	Sports medicine, sports science, physical education, physical activity	01
42	Sports science, physical education	02
44	Sports, health, education	02
46	Sports, physical education, physiotherapy, sports psychology, athletic performance, physiological processes	01
47	Sports, training, athletes, physical education	01

Table 5 and 5.1 show the keywords of the physical education subject. The interdisciplinary scope of the online-journals of physical education is useful for other related subjects. Physical education, sports science, health sciences, physiotherapy, athletes and sports medicine are related keywords for physical education journals.

Table: - 6Availability of Archives of E-Journals ofPhysical Education on DOAJ

S.N	Name of E-Journals	Starting Year	Accessible Year													
			2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017		
1	ActaBiomedicaBrasiliensia	2015	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes
2	ActaFacultatisEducationisPhysicaeUniversitatisComenianae	2016	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	
3	ActaUniversitatisCarolinae: KinanthropologicaAUCKinanthropologica	2016	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	
4	ActaUniversitatisPalackianaeOlomucensis.Gymnica	2009	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
5	Advances in Rehabilitation	2015	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	
6	Arena : Journal of Physical Activities	2013	-	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	
7	Brazilian Journal of Physical Education and SportSciences	2012	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	
8	Discobolul: Physical Education, Sports and Kinetotherapy Journal	2017	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes
9	E-balonmano.com: Journal of Sports Sciences	2010	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
10	EducaciónFísica y Deporte	2010	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
11	E-Jurnal Physical Education, Sport, Health and Recreation	2015	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	
12	European Journal of Physical Education and Sport	2015	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	
13	Health Problems of Civilization	2017	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes
14	Indonesian Journal of Physics Education	2015	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	
15	International Educational E-Journal	2013	--	--	--	--	--	--	--	--	--	Yes	Yes	Yes	Yes	
16	International Journal of Medicine and Science of Physical Activity and Sport	2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
17	Journal of Education Faculty	2013											Yes	Yes	Yes	Yes
18	journal of Human Kinetics	2015												Yes	Yes	Yes
19	Indonesian Journal of Physical Education	2010						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20	Journal of Physical Education and Sport JPES	2012									Yes	Yes	Yes	Yes	Yes	Yes
21	Journal of Physical Education and SportContinued by: Journal of Physical Education and Sport	2012									Yes	Yes	Yes	Yes	Yes	Yes
22	Journal of Physical Education and Sport Sciences	2010						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
23	Journal of Sport and Health Research	2010						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
24	JPES (Journal of Physical Education and Sports)	2015												Yes	Yes	Yes
25	Materialespara la HistoriadelDeporte	2013											Yes	Yes	Yes	Yes
26	Motricidade	2010						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
27	Motriz: Revista de EducacaoFísica	2012									Yes	Yes	Yes	Yes	Yes	Yes
28	Ovidius University Annals, Series Physical Education and Sport/Science, Movement and Health	2009					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
29	Palestrica of the Third Millennium : Civilizationand Sport	2013										Yes	Yes	Yes	Yes	Yes
30	Pedagogika, Psihologija ta Mediko-biologičniProblemiFizičnogoVihovannâ i Sportu	2011							Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31	Physical & Health Education Nexus	2010						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
32	Physical Culture	2013										Yes	Yes	Yes	Yes	Yes
33	Physical Education of Students	2011							Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
34	Physical Review Physics Education Research	2016													Yes	Yes
35	Physical Review Special Topics. Physics Education Research	2007			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
36	Polish Journal of Sport and Tourism	2011							Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
37	Retos: NuevasTendencias en EducaciónFísica, Deportes y Recreación Retos	2016													Yes	Yes
38	RevistaBrasileira de Ciências do Esporte	2012										Yes	Yes	Yes	Yes	Yes
39	RevistaBrasileira de Cineantropometria e DesempenhoHumano	2017														yes
40	Revista de ArtesMarcialesAsiáticas Rev. ArtesMarcialesAsiát.	2013										Yes	Yes	Yes	Yes	Yes
41	Russian Journal of Physical Education and Sport	2016													Yes	Yes
42	Sport Scientific Technical Journal	2015													Yes	Yes
43	Slobožans'kijNaukovo-SportivnijVisnik	2014												Yes	Yes	Yes
44	Sport and Society : Interdisciplinary Journal of Physical Education and Sport	2012										Yes	Yes	Yes	Yes	Yes
45	StudiaEducatioArtisGymnasticae	2013											Yes	Yes	Yes	Yes
46	Timisoara Physical Education and Rehabilitation Journal	2013											Yes	Yes	Yes	Yes
47	UniversitasCiências da Saúde	2015													Yes	Yes
48	VIREF Revista de EducaciónFísica	2013											Yes	Yes	Yes	Yes

Table 6 shows the archives of Open Access Physical Education journals available on DOAJ. Archives were found from the year of its inception. All the open access Physical Education journals are providing access to back issues since inception of the journals. Content facility is also available to link with archives on DOAJ. After accessing the individual e-journals website, archives were found and it is observed that maximum number of e-journals archives is accessible.

#### Observations:

It is observed that Physical Education E-journals are Multidisciplinary and interdisciplinary in nature. Out of 60 E-journals, 48 e-journals have been accessed based on English language analysed and following observations are recorded

- It is observed that in total 60 open access journals on Physical Education is listed on Directory of Open Access journals till date 2/03/2017.
- It has been enumerated that out of 48 Journals maximum 10 journals starting from 2013 followed by in the year of 2015 9 journals. In the recent year i.e. 2017, 3 journals also started their publication and registered in DOAJ.
- It has been observed that Romania was in 1st rank due to publication of 12 e-journals followed by Spain i.e. 6 journals. It can also be observed that India is having only 1 journal on DOAJ for Physical Education. Indian journals should take some initiatives to register in open access platform for easy access to scholarly communication.
- It is found that Geography, Anthropology, Recreation, Leisure, Sports are favored subject headings for Physical Education journals. Physical Education Journals can also be used for Medicine subject and Education. It shows the multidisciplinary approach of the physical education journals.
- Physical education, sports science, health sciences, physiotherapy, athletes and sports medicine are related keywords for physical education journals.
- It has been observed from Table 6 that each open access journals on LIS on DOAJ

is giving keywords to search a particular journal.

- It has been observed that from Table 6 that most of the Physical Education open access journals are providing access to the archives starting from its inception.

#### Conclusion:

DOAJ is comprehensive and cover all open access scientific and scholarly journals that use an appropriate quality control system, and it will not be limited to particular languages or subject areas. DOAJ is to increase the visibility and ease of use of open access scientific and scholarly journals thereby promoting their increased usage and impact. Research scholars, Scientists, Professionals should browse the DOAJ site and access the free online journals on their Subject areas. It is also suggested that Scientists and Research Scholars should publish their research work in online open access journals for wider visibility of their research work and for greater impact factor and citation index.

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