

DIGITAL APPENDICES

Digital Appendix 1: Additional Tables

TABLE 3
Yearly distribution of articles, authors, pages and references for El Salvador articles after 1971

Year	<i>TP</i>	<i>AU</i>	<i>AU/TP</i>	<i>NR</i>	<i>NR/TP</i>	<i>PG</i>	<i>PG/TP</i>
1972	1	2	2.0	0	0	8	8.0
1973	4	8	2.0	34	8.5	39	9.8
1974	8	29	3.6	94	12	53	6.6
1975	14	34	2.4	161	12	84	6.0
1976	11	22	2.0	120	11	87	7.9
1977	14	39	2.8	136	9.7	69	4.9
1978	9	27	3.0	116	13	56	6.2
1979	5	6	1.2	91	18	28	5.6
1980	10	43	4.3	110	11	53	5.3
1981	8	29	3.6	130	16	49	6.1
1982	1	2	2.0	5	5.0	2	2.0
1983	8	30	3.8	81	10	40	5.0
1984	3	6	2.0	14	4.7	15	5.0
1985	2	6	3.0	37	19	10	5.0
1986	3	8	2.7	28	9.3	31	10
1987	3	19	6.3	57	19	20	6.7
1988	1	2	2.0	13	13	3	3.0
1989	1	1	1.0	6	6.0	9	9.0
1990	3	11	3.7	49	16	19	6.3
1991	1	4	4.0	13	13	11	11
1992	4	16	4.0	53	13	24	6.0
1993	6	23	3.8	79	13	53	8.8
1994	5	17	3.4	92	18	51	10
1995	4	24	6.0	46	12	38	9.5
1996	9	29	3.2	150	17	56	6.2
1997	11	53	4.8	353	32	149	14
1998	2	8	4.0	60	30	29	15

1999	5	15	3.0	89	18	69	14
2000	11	58	5.3	151	14	52	4.7
2001	10	40	4.0	231	23	77	7.7
2002	13	78	6.0	424	33	120	9.2
2003	7	41	5.9	181	26	49	7.0
2004	21	122	5.8	598	28	200	9.5
2005	19	123	6.5	484	25	154	8.1
2006	17	122	7.2	510	30	157	9.2
2007	15	93	6.2	465	31	165	11
2008	18	166	9.2	629	35	172	9.6
2009	21	153	7.3	582	28	189	9.0
2010	34	315	9.3	1 257	37	353	10
2011	41	353	8.6	1 554	38	418	10
2012	43	411	9.6	1 431	33	400	9.3
2013	34	303	8.9	1 112	33	291	8.6
2014	44	475	10.80	1 514	34	464	11
2015	58	691	11.91	1 951	34	645	11
Total	563	4 058		15 296		5 068	
Average			4.7		19		8.1

TP: number of articles; *AU*: Number of authors; *NR*: number of cited reference; *PG*: page counts.

TABLE 4

The top ten highly cited articles ($TC_{2015} > 100$) with authorship or co-authorship from El Salvador (1972-2015)

Rank (TC_{2015})	Rank (C_0)	Rank (C_{2015})	Rank ($TCPY$)	Title	Country	Reference
1 (176)	24 (2)	1 (50)	1 (29)	EULAR/PRINTO/PRES criteria for Henoch-Schönlein purpura, childhood polyarteritis nodosa, childhood Wegener granulomatosis and childhood Takayasu arteritis: Ankara 2008. Part II: Final classification criteria	Turkey, Italy, Denmark, Israel, Romania, Brazil, El Salvador, Chile, France, Peru, Latvia, Croatia, Saudi Arabia, Bulgaria, Russia, Germany, USA, Spain, Estonia, Austria, Rep of Georgia	Ozen et al. (2010)
2 (152)	5 (5)	12 (14)	3 (25)	International Nosocomial Infection Control Consortium (INICC) report, data summary for 2003-2008, issued June 2009	Argentina, USA, Thailand, Brazil, India, Colombia, Turkey, Jordan, Mexico, Philippines, Peru, Morocco, Cuba, El Salvador, Macedonia, China, Lithuania, Lebanon, Panama, Costa Rica, Tunisia, Serbia, Greece, Pakistan, Vietnam, Venezuela	Rosenthal et al. (2010)

3 (149)	109 (0)	83 (3)	33 (5.1)	Epidemiology of American cutaneous Leishmaniasis due to Leishmania-Braziliensis-Braziliensis	USA, Brazil, El Salvador	Jones et al. (1987)
4 (143)	9 (4)	5 (21)	4 (18)	Geographic patterns of genome admixture in Latin American mestizos	UK, Switzerland, Colombia, Peru, USA, Mexico, Costa Rica, Brazil, El Salvador, Argentina, Chile	Wang et al. (2008)
5 (127)	3 (6)	4 (24)	6 (16)	Integrating agricultural landscapes with biodiversity conservation in the Mesoamerican hotspot	USA, Costa Rica, El Salvador, Mexico, Nicaragua, Netherlands	Harvey et al. (2008)
5 (127)	109 (0)	7 (17)	10 (12)	Changes in precipitation and temperature extremes in Central America and northern South America, 1961-2003	Spain, USA, Costa Rica, Belize, Cuba, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Venezuela, UK, Colombia	Aguilar et al. (2005)
7 (120)	9 (4)	3 (25)	5 (17)	Cost of Dengue Cases in Eight Countries in the Americas and Asia: A Prospective Study	USA, Brazil, Malaysia, Thailand, Venezuela, El Salvador, Cambodia, Guatemala, South Korea	Suaya et al. (2009)
7 (120)	109 (0)	14 (12)	7 (15)	International Nosocomial Infection Control Consortium report, data summary for 2002-2007, issued January 2008	Argentina, USA, India, Colombia, Turkey, Mexico, Peru, Morocco,	Rosenthal et al. (2008)

					Macedonia, El Salvador, Philippines, Cuba, Serbia, Costa Rica, Brazil, Lebanon, Nigeria, Chile, Uruguay	
9 (111)	5 (5)	2 (33)	2 (28)	International Nosocomial Infection Control Consortium (INICC) report, data summary of 36 countries, for 2004-2009	Argentina, China, USA, India, Thailand, Brazil, Turkey, Singapore, Colombia, Jordan, Mexico, Peru, Philippines, Morocco, Cuba, Macedonia, Uruguay, Tunisia, El Salvador, Lithuania, Egypt, Pakistan, Lebanon, Costa Rica, Panama, Serbia, Malaysia, Vietnam, Saudi Arabia, Greece, Ecuador, Dominican Rep, Bulgaria, Sudan, Venezuela, Sri Lanka	Rosenthal et al. (2012)
10 (102)	1 (10)	162 (1)	86 (2.4)	Release of chemosterilized males for control of anopheles-albimanus in el-salvador. 3. Field methods and population-control	USA, El Salvador	Lofgren et al. (1974)

TC_{2015} : number of citations since publication to the end of 2015; C_{2015} : number of citations in 2015; C_0 : number of citations in publication year;

$TCPY$: average citations per year (TC_{2015}/year)

TABLE 5

The top six ($TC_{2015} > 20$) El Salvador independent articles (1972-2015)

Rank (TC_{2015})	Rank (C_{2015})	Title	Institute	Reference
33 (40)	162 (1)	Primary pyogenic infection of the sacro-iliac articulation. A new approach to the joint - Report of seven cases	Hospital Rosales	Avila (1941)
40 (35)	162 (1)	Onchocerciasis in Guatemala. Epidemiology in fincas with various intensities of infection	Central America Research Station	Brandling-Bennett et al. (1981)
65 (25)	275 (0)	Leiomyoma cutis and leiomyosarcoma: A 10-year study and a short review	University of El Salvador	Orellana-Díaz and Hernández-Pérez (1983)
65 (25)	275 (0)	Release of chemosterilized males for control of <i>Anopheles Albimanus</i> in El-Salvador. I. Characteristics of test site and natural population	Central America Malaria Research Station	Breeland et al. (1974)
71 (24)	162 (1)	Parasitological diagnosis of onchocerciasis: Comparisons of incubation media and incubation times for skin snips	Central America Research Station	Collins et al. (1980)
80 (22)	275 (0)	Clear cell hydradenocarcinoma. Report of an unusual case	University of El Salvador	Hernández-Pérez and Cruz (1976)

TC_{2015} : number of citations since publication to the end of 2015; C_{2015} : number of citations in 2015.

TABLE 6

Top 20 collaborative countries with El Salvador in SCI-EXPANDED (1972-2015)

Country	<i>TP</i>	<i>TPR</i> (%)	<i>FPR</i> (%)	<i>RPR</i> (%)
USA	261	1 (46)	1 (29)	1 (26)
Mexico	82	2 (15)	3 (4.6)	3 (5.1)
Spain	77	3 (14)	2 (9.4)	2 (10)
Guatemala	71	4 (13)	10 (1.2)	16 (0.76)
Honduras	64	5 (11)	21 (0.53)	11 (1.0)
Costa Rica	53	6 (9.4)	6 (2.5)	7 (2.5)
Argentina	45	7 (8.0)	4 (3.6)	4 (3.8)
Nicaragua	43	8 (7.6)	N/A	N/A
Brazil	42	9 (7.5)	11 (1.1)	10 (1.1)
Colombia	42	9 (7.5)	16 (0.71)	16 (0.76)
Peru	42	9 (7.5)	16 (0.71)	16 (0.76)
Panama	35	12 (6.2)	23 (0.36)	23 (0.38)
Cuba	33	13 (5.9)	12 (0.89)	11 (1.0)
Chile	30	14 (5.3)	12 (0.89)	11 (1.0)
Canada	27	15 (4.8)	5 (2.8)	5 (3.0)
UK	27	15 (4.8)	7 (2.3)	6 (2.7)
Ecuador	24	17 (4.3)	N/A	N/A
Italy	24	17 (4.3)	8 (2.1)	9 (2.1)
Venezuela	22	19 (3.9)	24 (0.18)	23 (0.38)
Paraguay	19	20 (3.4)	N/A	N/A

TP: total number of articles; *TPR* (%), *FPR* (%), and *RPR* (%): the rank and percentage of total articles, first author articles, and corresponding author articles.

TABLE 7

The top 14 El Salvador centers and institutions with $TP \geq 10$ in the SCI-EXPANDED (1972-2015)

Institute	<i>TP</i>	<i>TPR</i> (%)	<i>SPR</i> (%)	<i>CPR</i> (%)	<i>FPR</i> (%)	<i>RPR</i> (%)
Universidad de El Salvador	136	1 (24)	1 (41)	1 (21)	1 (9.6)	1 (8.8)
Hospital Benjamín Bloom	60	2 (11)	6 (2.2)	2 (12)	8 (0.71)	7 (0.57)
Ministerio de Salud de El Salvador	53	3 (9.4)	6 (2.2)	3 (11)	6 (0.89)	7 (0.57)
Hospital Nacional Rosales	24	4 (4.3)	6 (2.2)	4 (4.7)	11 (0.53)	13 (0.38)
Ministerio de Ambiente y Recursos Naturales	16	5 (2.8)	10 (1.1)	7 (3.2)	11 (0.53)	7 (0.57)
Servicio Nacional de Estudios Territoriales	16	5 (2.8)	N/A	5 (3.4)	N/A	N/A
Universidad Dr. José Matías Delgado	16	5 (2.8)	N/A	5 (3.4)	N/A	N/A
Agencia para el Desarrollo Internacional de los EEUU en El Salvador	16	5 (2.8)	3 (6.5)	11 (2.1)	3 (1.6)	3 (1.1)
Basic Health International, El Salvador	15	9 (2.7)	N/A	7 (3.2)	11 (0.53)	13 (0.38)
Oficina Centroamericana del Center for Disease Control	28	20 (5.05)	8 (11.9)	29 (3.7)	6 (3.1)	9 (2.47)
Universidad José Simeón Cañas	13	12 (2.3)	10 (1.1)	9 (2.6)	11 (0.53)	7 (0.57)
Fundación Ecológica Salva Natura	11	13 (2.0)	10 (1.1)	11 (2.1)	8 (0.71)	7 (0.57)
Hospital San Juan de Dios	10	14 (1.8)	N/A	11 (2.1)	N/A	N/A
Universidad Salvadoreña Alberto Masferrer	10	14 (1.8)	4 (5.4)	20 (1.1)	4 (1.1)	3 (1.1)

TP: total number of highly cited articles; *TPR* (%), *SPR* (%), *CPR* (%), *FPR* (%), and *RPR* (%): the rank and percentage of total articles, single institution articles, inter-institutionally collaborative articles, first author articles, corresponding author articles; N/A: not available.

TABLE 8

The top 15 journals with $TP \geq 5$ from El Salvador (1972-2015)

Journal	TP (%)	IF_{2015}	Web of Science category
American Journal of Tropical Medicine and Hygiene	31 (5.5)	2.453	Public, Environmental & Occupational Health Tropical Medicine
Revista de Biología Tropical	11 (2.0)	0.441	Biology
Neurorehabilitation	9 (1.6)	1.453	Clinical Neurology Rehabilitation
Infection Control and Hospital Epidemiology	8 (1.4)	3.669	Public, Environmental & Occupational Health Infectious Diseases
International Journal of Dermatology	8 (1.4)	1.415	Dermatology
International Journal of Gynecology & Obstetrics	8 (1.4)	1.674	Obstetrics & Gynecology
American Journal of Infection Control	7 (1.2)	1.995	Public, Environmental & Occupational Health Infectious Diseases
Mosquito News	7 (1.2)	N/A	Entomology
Medic Review	6 (1.1)	1.519	Public, Environmental & Occupational Health
Pediatric Blood & Cancer	6 (1.1)	2.634	Oncology Hematology Pediatrics
Turrialba	6 (1.1)	N/A	Agronomy
Boletín de la Oficina Sanitaria Panamericana	5 (0.89)	N/A	Public, Environmental & Occupational Health
Bulletin of the Seismological Society of America	5 (0.89)	2.311	Geochemistry & Geophysics
Dermatologica	5 (0.89)	N/A	Dermatology
PLoS One	5 (0.89)	3.057	Multidisciplinary Sciences

TP : total number of articles; IF_{2015} : impact factor in 2015.

Digital Appendix 2. Additional Figures

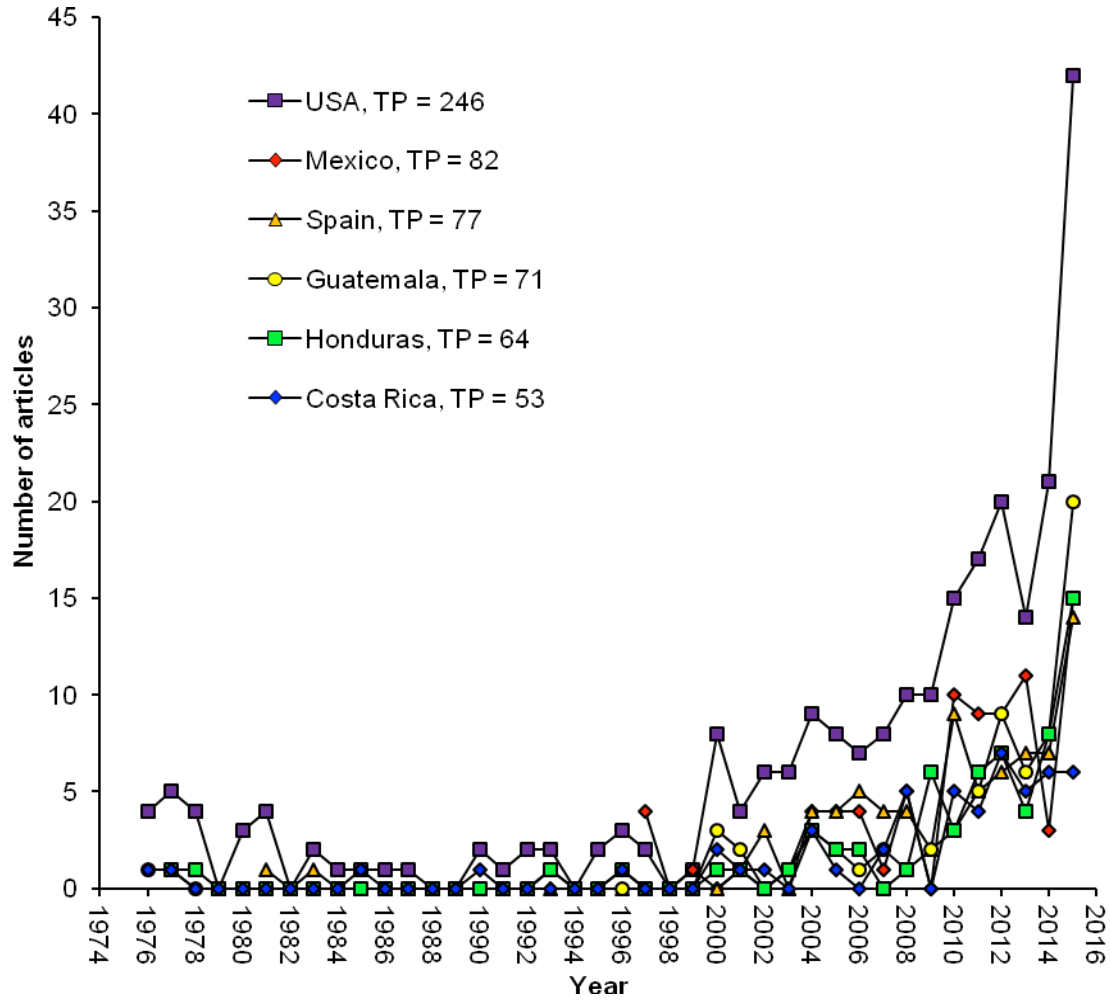


Fig. 5. Historical collaboration pattern for the top six collaborative countries with El Salvador (1972-2015; $TP > 50$).

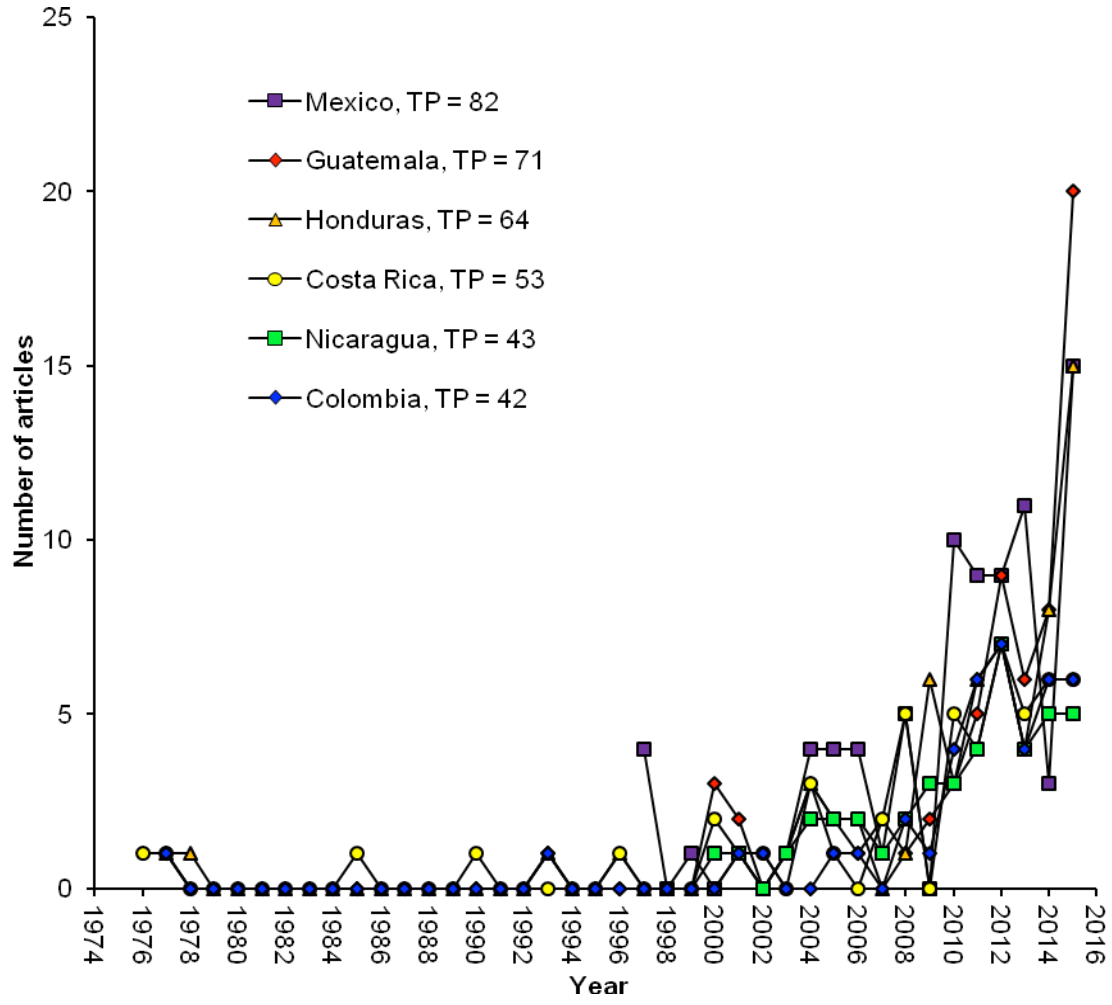


Fig. 6. Historical collaboration pattern for El Salvador, by geographically closest countries (1972-2015).

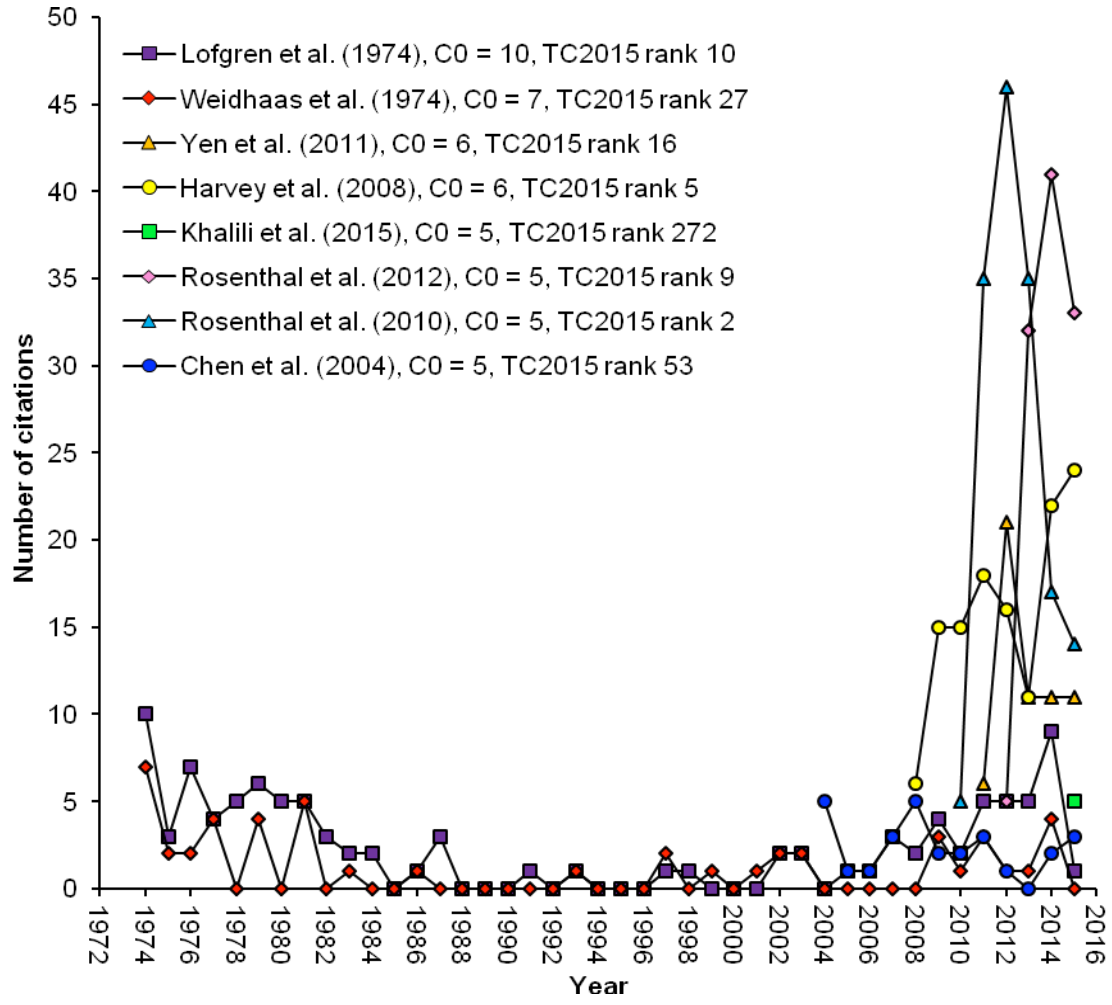


Fig. 7. Historical citation patterns for top cited articles, by publication year ($C_0 \geq 5$; 1972-2015).

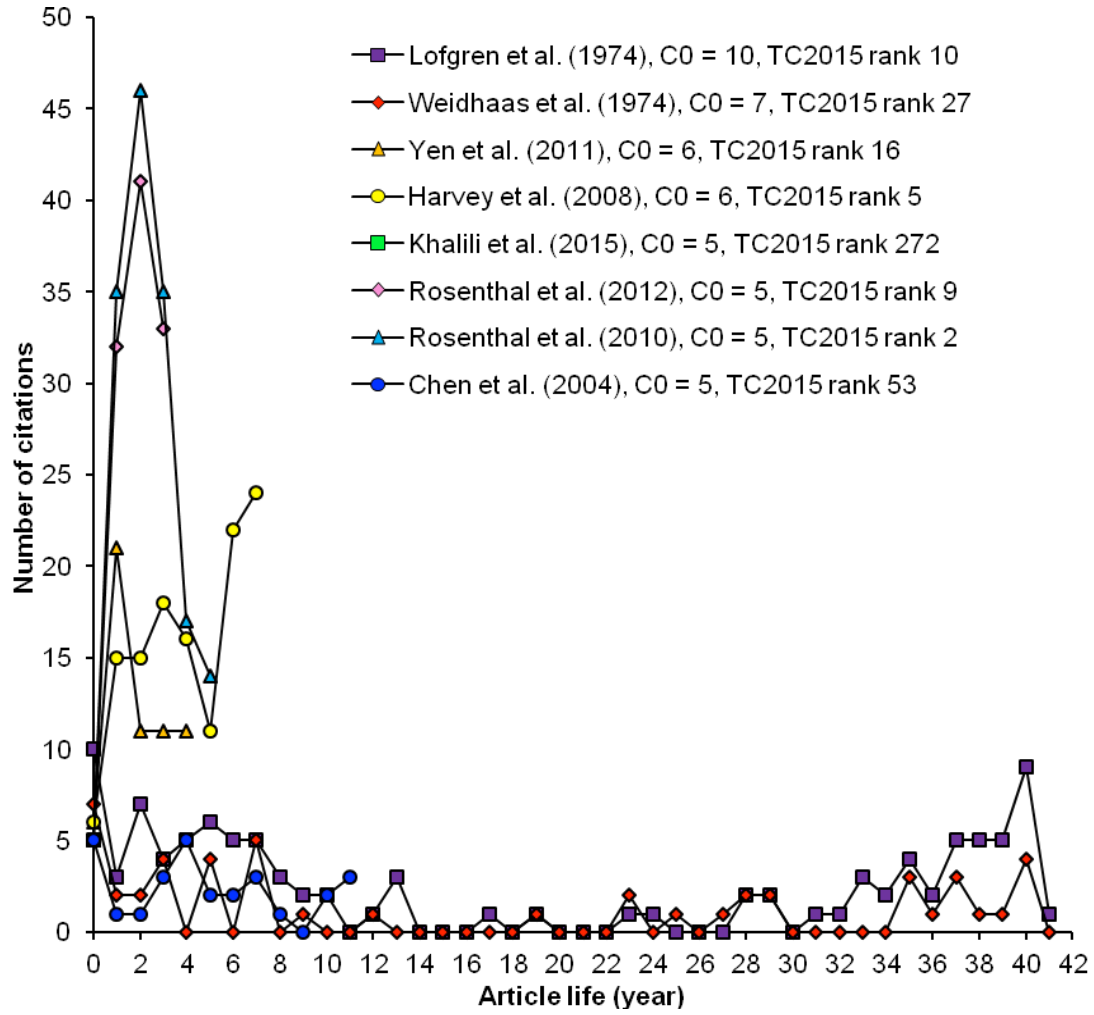


Fig. 8. Article lifespan for top cited articles, by publication year ($C_0 \geq 5$; 1972-2015).

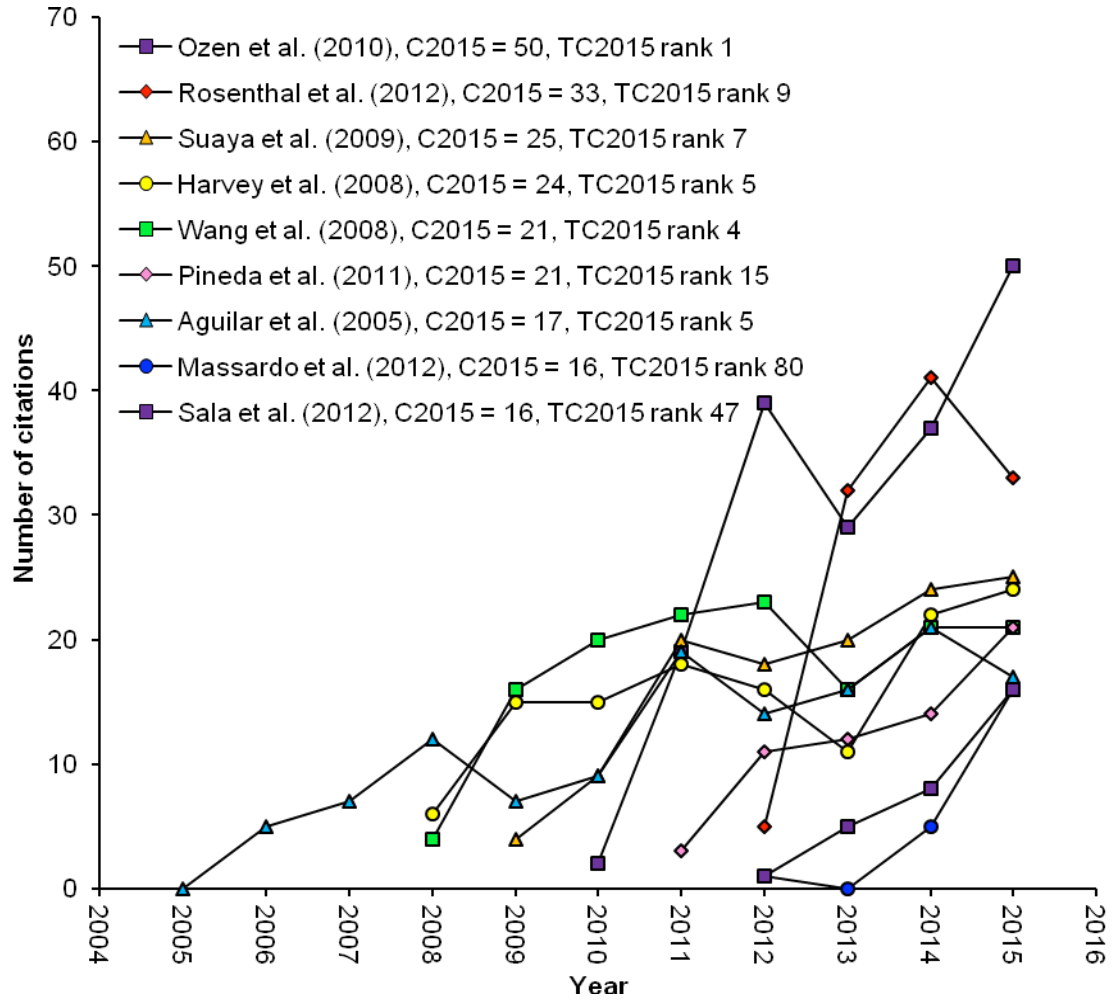


Fig. 9. Historical citation patterns for top cited articles in 2015 (recent year) only ($C_{2015} > 15$; 1972-2015).

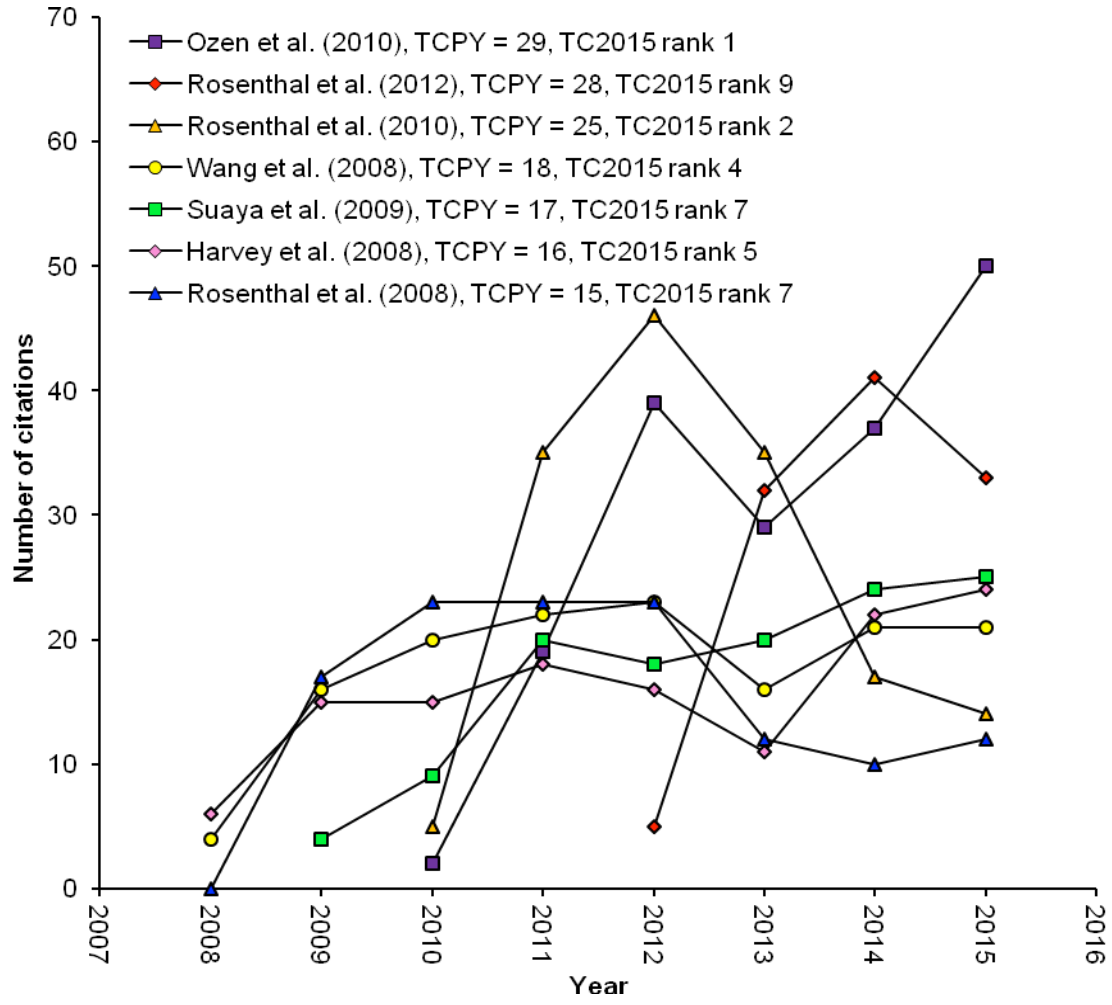


Fig. 10. Historical citation patterns for top cited articles by total citations per year ($TCPY \geq 15$; 1972-2015).

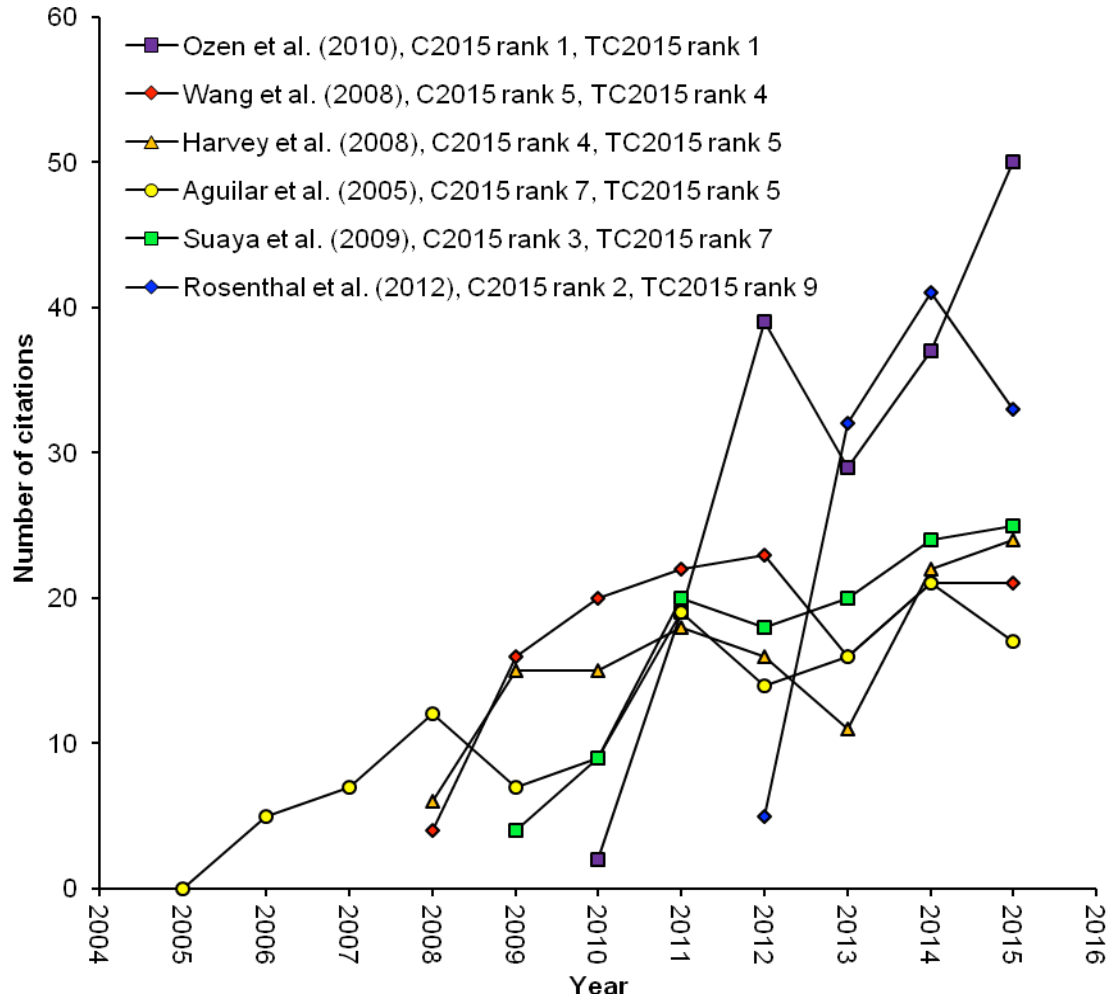


Fig. 11. Historical citation patterns for seven articles ranked on both the top ten TC_{2015} and C_{2015} ; (1972-2015).

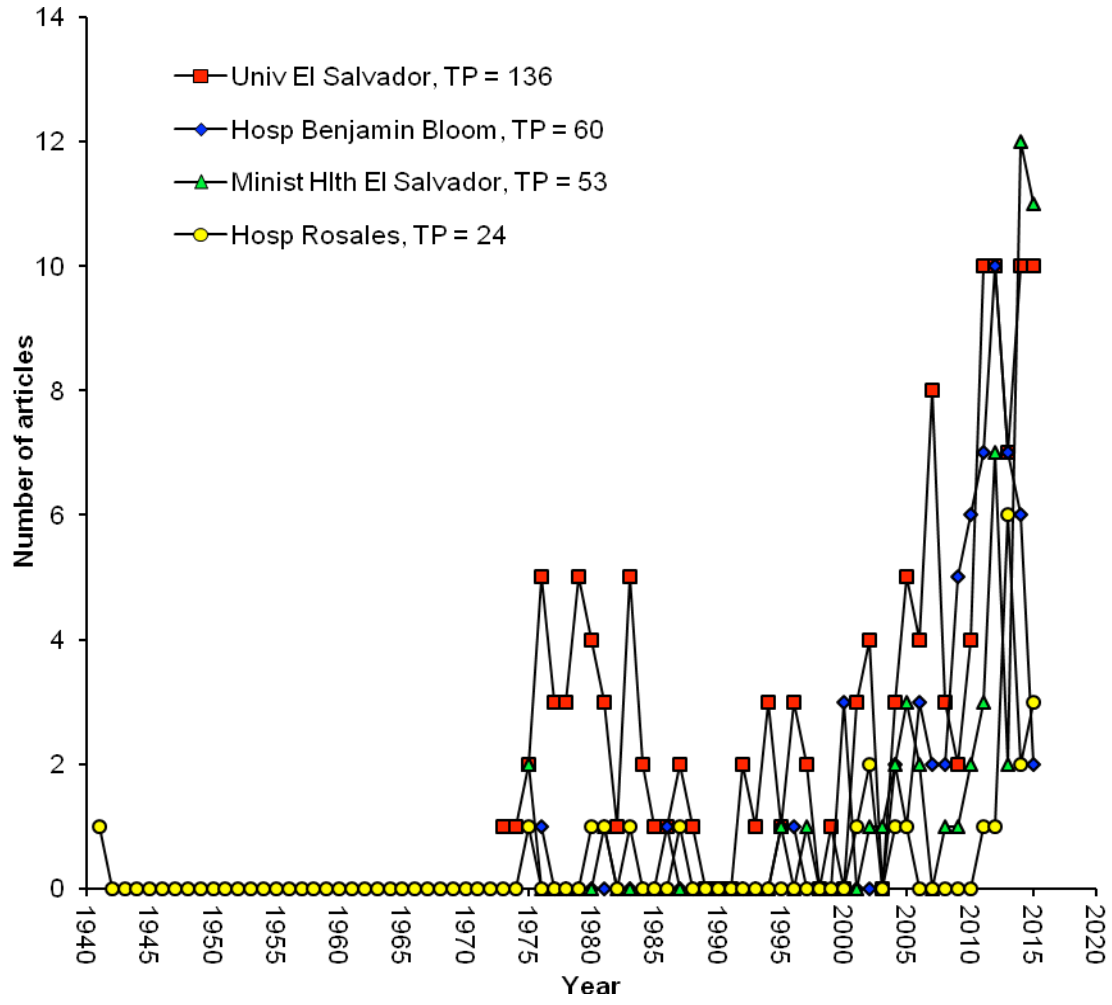


Fig. 12. Publication trends for the top four institutions, El Salvador publications (1972-2015).

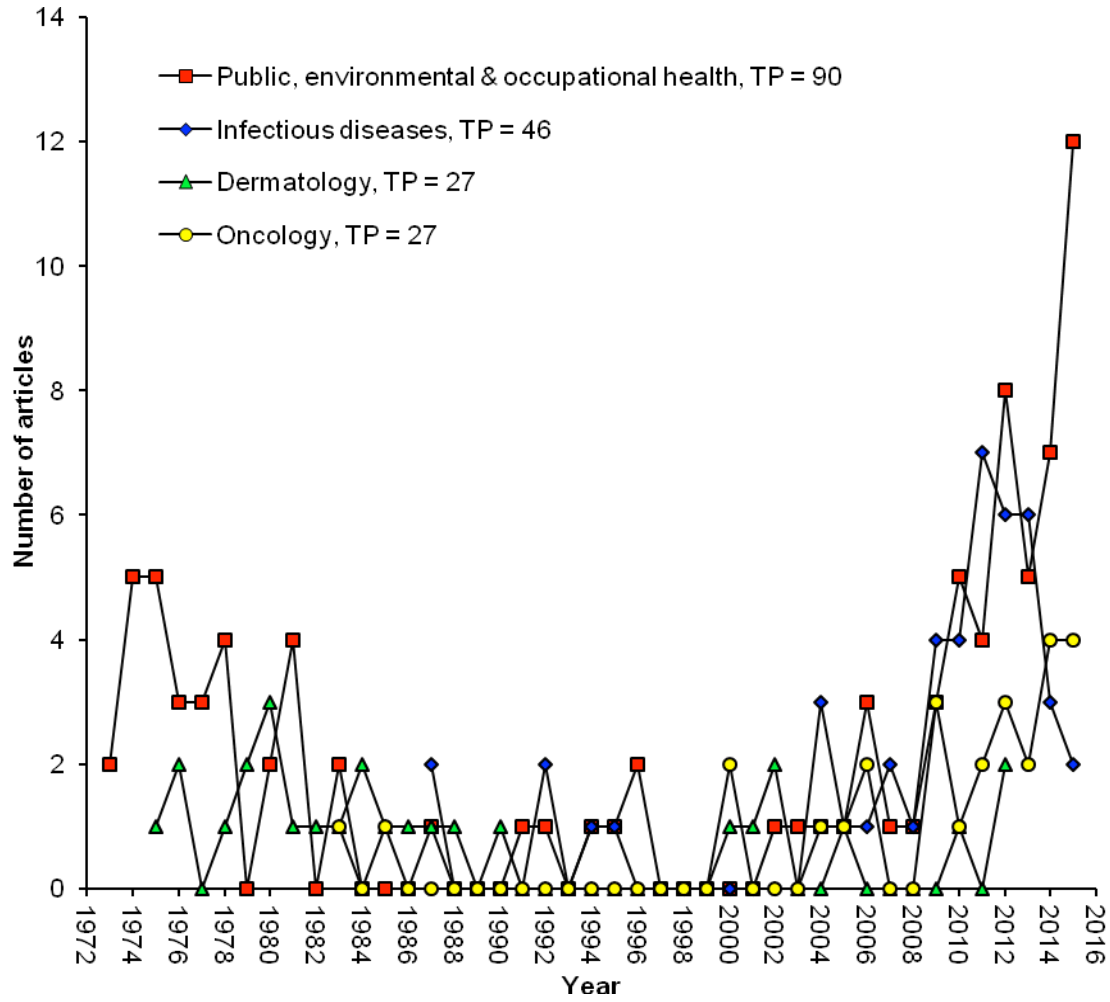


Fig. 13. Historical citation patterns for El Salvador articles, by the top four Web of Science subjects (1972-2015).