

PRODUCCIÓN CIENTÍFICA
COMPLEJO HOSPITALARIO
UNIVERSITARIO DE
SANTIAGO (CHUS) Y
FACULTAD DE MEDICINA Y
ODONTOLOGÍA DE LA
UNIVERSIDAD DE
SANTIAGO DE
COMPOSTELA
DÉCADA 1991-2000

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DÉCADA 1991-2000

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Con el Análisis de la Producción Científica 1991-2000 del Complejo Hospitalario Universitario de Santiago y la Facultad de Medicina y Odontología de Santiago de Compostela, presentamos una década del trabajo investigador de nuestros profesionales. Aunque la labor asistencial es la que da su razón de ser al C.H.U.S., desde siempre la labor científica y la docente han caminado unidas a esta, de tal forma que para comprender la idiosincrasia de la institución es imprescindible tener presente esta triple condición.

Para realizar este libro, teniendo en cuenta lo amplio del período abarcado y la ingente producción investigadora de nuestros profesionales, era preciso adoptar un filtro de calidad que nos permitiese además de la simple compilación, la autoevaluación. Así, siguiendo criterios de calidad científica internacional utilizados también por los hospitales nacionales de alto rendimiento, este texto es una selección de lo más granado del trabajo investigador de nuestros profesionales que incluye los documentos catalogados como editoriales, artículos, cartas, estudios multicéntricos, notas y revisiones aparecidos en publicaciones internacionales de renombre.

Bajo este criterio, si bien es cierto que queda excluida una parte importante de méritos investigadores, que de haberse incluido abarcarían varios volúmenes, es cierto también que su selección permite el análisis no sólo cuantitativo sino además cualitativo de nuestra producción científica. De este modo podemos conocer que a lo largo de esta década el C.H.U.S. ha alcanzado un número estable de trabajos publicados por año, en que revistas aparecen estos trabajos, y el aumento de la calidad total de nuestra producción científica y de la calidad individual de cada uno de los documentos, como señala el número medio de veces que cada uno ha sido citado en otras publicaciones científicas.

Si durante todos estos años el trabajo investigador de los profesionales del C.H.U.S. ha sido tan importante, el futuro se presenta prometedor. El Convenio entre el Sergas y la USC ofrece el marco adecuado para nuevos proyectos. En breve asistiremos a la finalización del bloque D del Hospital Clínico, destinado en parte al diagnóstico y tratamiento de las enfermedades oncológicas. Así mismo los proyectos para la Facultad de Medicina y el Campus de la Salud, colocarán a esta ciudad en una posición envidiable que es preciso aprovechar, continuando en la línea de producción investigadora ascendente de los últimos diez años, sin olvidar, sin embargo, que nuestra razón de ser es la atención sanitaria de calidad de los ciudadanos.

Solo me queda enviar mi felicitación a todos aquellos que con su trabajo hacen cada día más grande a nuestra institución.

Dr. Jordi Riba i Hibernón

Gerente General del Complejo Hospitalario Universitario de Santiago

Santiago, a 11 de diciembre de 2001

1. INTRODUCCIÓN

El análisis de la actividad científica de una institución es útil para evaluar su rendimiento y para valorar la efectividad de las medidas tomadas para promover la actividad científica que en ella se desarrolla. La cuantificación de la actividad científica es una tarea difícil, sobre todo porque no existen parámetros objetivos con que medirla. Dada la relación bastante directa entre actividad y número y calidad de publicaciones, muchos estudios de este tipo cuantifican la actividad científica mediante el recuento de las publicaciones científicas que haya generado.

En el seno de nuestra institución, también se ha producido un debate sobre el tipo de información que debería ser recogida y analizada para cuantificar la actividad científica de nuestras instituciones. Las posturas han oscilado entre recoger “todo” lo que pueda considerarse actividad científica tal como tesis doctorales, tesinas, artículos en revistas locales, etc., o la postura selectiva de recoger sólo documentos publicados en revistas internacionalmente validadas, esto es, referenciadas en el Journal Citation Reports, Science Edition (JCR) editado anualmente por el Institute for Scientific Information (ISI, Filadelfia, Pensilvania, USA). Nos hemos inclinado por esta segunda opción entre otras razones por coherencia con los sistemas internacionales y la mayoría de los nacionales. Además, este es el cuarto análisis realizado para evaluar el rendimiento científico del CHUS y la Facultad de Medicina y Odontología de Santiago de Compostela, siendo los tres previos los que comprenden el periodo 1990-94, y los años 1995 y 1996.

El reciente desarrollo y la facilidad de acceso a las bases de datos electrónicas que incluyen publicaciones científicas ha hecho que sea posible hacer una búsqueda de los documentos publicados por una institución determinada con relativa facilidad. Sin embargo, esta búsqueda no queda exenta de errores que pueden ser cuantitativa y cualitativamente importantes. Por ejemplo, una clave frecuente para la búsqueda de documentos en estas bases de datos es la utilización del nombre de la institución combinado con la ciudad y país en donde se encuentra. Ocurre sin embargo que dado que los autores de los documentos no siguen un criterio común para nombrar las instituciones a donde están afiliados, esta información figura de manera muy variada en las bases de datos. Hay combinaciones de abreviaturas, acrónimos, ortografía, idioma, etc. que hacen que una misma institución pueda figurar de infinidad de maneras diferentes. A pesar de estos problemas, es posible extraer suficiente información de estas bases de datos para que, aunque con errores, pueda obtenerse una idea bastante acertada sobre la actividad científica de una institución y permitir realizar un análisis objetivo de ella.

En la presente memoria sobre la producción científica del Complejo Hospitalario Universitario de Santiago de Compostela (CHUS) y de la Facultad de Medicina y Odontología de Santiago de Compostela se ha hecho una búsqueda y análisis de los documentos publicados por personas que pertenecen o han pertenecido a estas dos instituciones y que han aparecido en revistas internacionales durante el periodo 1991-2000. El comprender un periodo de una década hace más significativos los resultados de este análisis.

2. RECOGIDA DE DATOS

La gran mayoría de las referencias bibliográficas que figuran en esta memoria se han obtenido mediante una búsqueda en la base de datos “Medline”. El criterio para la extracción de documentos ha sido que en el campo correspondiente a la institución donde se realizó el trabajo (“Affiliation” en la base de datos) figurase la palabra “Santiago” y “España” ó “Spain” conjuntamente para el periodo de tiempo comprendido entre los años 1991 y 2000, ambos inclusive. De esta forma se obtuvieron unas 1500 referencias. A continuación se realizó una selección manual excluyendo las que no perteneciesen al CHUS o a la Facultad de Medicina y Odontología y las que no figurasen en el JCR.

Para confirmar si una publicación figuraba o no en el JCR, se comprobó el listado oficial de la edición de 1999. Si la revista buscada no aparecía en ese listado se buscó en los listados de años anteriores hasta el del año de publicación del documento buscado. Si la publicación no aparecía en el JCR después de esa búsqueda, fué excluida del listado final.

Debido a los múltiples errores que se pueden cometer en este tipo de búsqueda y filtrado de documentos, el listado provisional obtenido se remitió por correo a la mayor parte de los autores que figuraban en él mediante el envío de 550 cartas tanto individuales como a grupos o servicios clínicos para que lo completasen en el caso de que advirtiesen la falta de algún documento, teniendo en cuenta siempre que la revista en la que aparecía debía figurar en el JCR como condición para ser incluida. Durante un periodo de dos meses se recibieron nuevas referencias de documentos ausentes en el listado provisional, con las que se confeccionó un segundo listado provisional que se colocó en una página de Internet para que pudiese ser comprobada públicamente y realizar las correcciones oportunas. Con las correcciones recibidas en esta segunda fase se confeccionó el listado final que consta de 1.173 referencias a documentos publicados en revistas incluidas en el JCR y que figura al final de esta memoria. Este listado ha sido el material con el que se elaboró el análisis que se presenta en este trabajo.

Se han incluido todos los tipos de documentos que figuran en el JCR tales como “letter to the editor”, “short communication”, “journal article”, “review”, etc. Con fines estadísticos estos documentos se agruparon en seis categorías: Editoriales, Artículos, Cartas, Estudios Multicéntricos, Notas y Revisiones. Esta distribución se ha realizado en función del tipo de artículo que la base de datos “Medline” le asignaba a cada documento. No se incluyen en este estudio capítulos de libros, libros completos, actas de congresos ni abstracts.

Para asignar el “Factor de Impacto” (FI) a un documento se tomó el FI de la revista en la que fue publicado de acuerdo con la clasificación del JCR de 1999 (último publicado en el momento de hacer este estudio). Cuando una revista determinada no figuró en el JCR de 1999, se le asignó el FI del último año en que aparecía listada en el JCR. El FI de una revista se calcula cada año tomando datos de los dos años anteriores. Por ejemplo, el FI de la revista

“Nature” para el año 1999 fue de 29,491. Esta revista publicó en el año 1997 un total 936 artículos y en 1998 un total de 980 artículos. Durante 1999 los 936 artículos publicados en 1997 se citaron 31.487 veces y los 980 artículos publicados en 1998 se citaron 25.018 veces. El total de artículos publicados en “Nature” durante los años 1997 y 1998 fue de 1.916 y el número total de citas que recibieron estos artículos durante 1999 fue de 56.505. El resultado de dividir el total de citas por el total de artículos publicados ($56.505/1.916$) es de 29,491. Este valor es el FI de esa revista para el año 1999. Para estos cálculos se consultan unas 5.000 revistas.

Las dos instituciones que se han analizado en este estudio son el Complejo Hospitalario Universitario de Santiago (CHUS) y la Facultad de Medicina y Odontología de la Universidad de Santiago (Facultad de Medicina). Aunque la idea inicial ha sido incluir en el estudio sólo aquellos documentos en los que figurase alguna de estas dos instituciones en la “filiación” del trabajo, finalmente terminaron incluyéndose documentos en los que, aún no figurando estas instituciones en su filiación, parte de sus autores pertenecían a ellas. La razón fundamental para esta decisión es que en la actualidad el desarrollo de proyectos de investigación requiere frecuentemente la colaboración entre investigadores de varias instituciones. Por este motivo algunos de los autores que participaron en la producción de los documentos que figuran en el listado que acompaña a este estudio no están en la actualidad vinculados a ninguna de estas dos instituciones. El análisis de autores de estos documentos arrojó la cifra de 1.810 autores diferentes, un número que supera ampliamente las 751 personas vinculadas al CHUS y a la Facultad de Medicina en el momento de hacer este estudio y que potencialmente podrían haber participado como coautores en la publicación de documentos. Dada la doble relación del CHUS, por un lado a la Universidad de Santiago de Compostela y por otro al Servicio Gallego de Salud (SERGAS), cada una de estas 751 personas puede estar en tres situaciones diferentes, vinculadas solamente al CHUS (465 personas), vinculadas simultáneamente al CHUS y a la Universidad (Facultad de Medicina y Odontología, 162 personas), y vinculadas solamente a la Universidad (Facultad de Medicina y Odontología, 124 personas).

3. RESULTADOS GLOBALES

En el listado final de documentos publicados por personal del CHUS y de la Facultad de Medicina hay un total de 1.810 autores diferentes y 1.173 documentos publicados desde 1991 al 2000. No todos estos autores pertenecen al CHUS o a la Facultad de Medicina. Muchos de ellos figuran como coautores de documentos en los que ha participado alguna persona del CHUS o de la Facultad de Medicina, pero no pertenecen a estas instituciones. En el momento de elaborar este estudio, entre profesores de la Facultad de Medicina y personal facultativo del Complejo Hospitalario Universitario de Santiago había un total de 751 personas que potencialmente pudieron participar en la publicación de algún documento recogido aquí (se excluyen Médicos Internos Residentes y profesores que imparten docencia en otras instituciones sanitarias diferentes al CHUS). De éstos sin embargo, sólo 336 han participado en la publicación de algún documento. Por lo tanto hay 1.474 autores (un 81%) incluidos en la lista de documentos que son “ajenos” al CHUS o a la Facultad de Medicina y Odontología, lo cual indica un alto índice de colaboración por parte de los autores pertenecientes al CHUS y a la Facultad con investigadores de otras instituciones. Hay que señalar sin embargo que hay muchos autores en el listado final que aunque actualmente no pertenezcan a las instituciones analizadas pudieron haber pertenecido a ellas con anterioridad.

3.a. Número de documentos publicados.

El número total de documentos publicados durante la década 1991-2000 ha sido de 1.173. Desde el año 1991 se ha ido produciendo un incremento progresivo en el número absoluto de documentos hasta el año 1998 en el que se alcanza el máximo de 160. En los dos últimos años se mantiene un ritmo de producción casi tan elevado como en 1998, con 143 y 139 documentos en 1999 y 2000 respectivamente. Llama la atención el incremento sufrido en 1993 que prácticamente duplicó el número de documentos con respecto al año anterior sin menoscabo de su calidad. No se ha encontrado una explicación coherente para este comportamiento. La Tabla 1 y la Figura 1 muestran estos resultados.

Tabla 1.

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Total 1991-2000
75	80	124	95	108	127	122	160	143	139	1.173

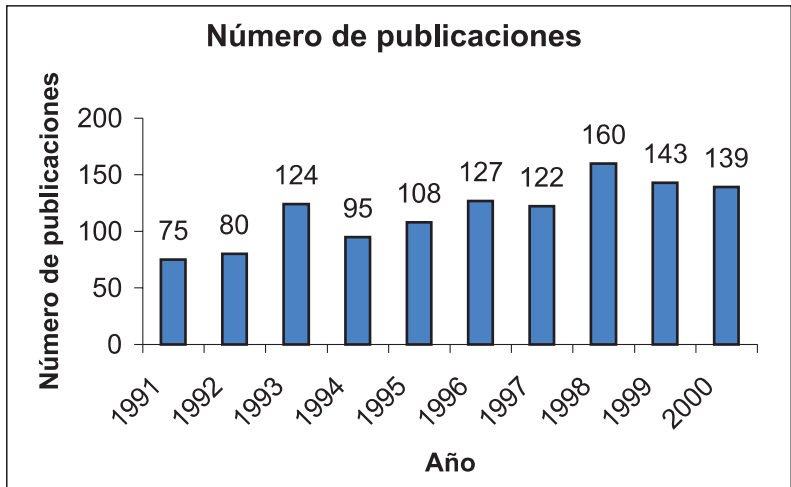


Figura 1. Distribución del número de documentos por año analizado.

3.b. Tipo de documentos.

Los documentos se han agrupado en seis categorías como se indica en la Tabla 2 y en la Figura 2. La agrupación en estas categorías no ha sido fácil puesto que aunque la base de datos “Medline” asigna un campo con el “Tipo de Documento” a cada referencia, esta asignación es muy variable y no sigue unos criterios claros. Adicionalmente un documento catalogado como “letter to the editor” por una revista puede ser muy diferente de otro documento catalogado de la misma forma por otra revista. En cualquier caso la Tabla 2 da una idea general de como se reparte el tipo de artículos que comprenden la década analizada. Lo más abundante, como puede verse, son los catalogados como “Artículos” (“full papers”). En general nos hemos guiado por la clasificación propuesta por “Medline”.

Tabla 2.

Editoriales	Artículos	Cartas	Estudios Multicéntricos	Notas	Revisiones	Total
13	1034	81	15	20	10	1.173

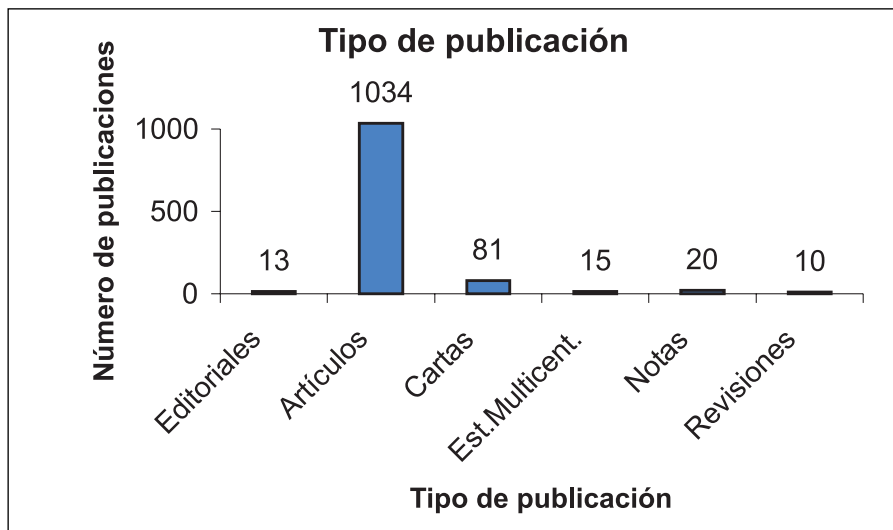


Figura 2. Distribución de los documentos analizados de acuerdo con el tipo de publicación. Se incluyen todos los documentos del decenio 1991-2000.

3.c. Factor de Impacto total.

La Tabla 3 y la Figura 3 muestran la distribución del FI total por año y el total de todos los años en conjunto. Estos cálculos se realizaron sumando los FI individuales de la revista en que se publicó cada uno de los documentos durante un determinado año (columnas anuales de la Tabla 3) y durante los diez años del estudio (columna “total” en la Tabla 3). Este resultado, da una idea de la producción global del CHUS y la Facultad de Medicina. Como puede observarse, el sumatorio del FI se va incrementando progresivamente durante toda la década hasta que alcanza el valor de 306,9 puntos en el año 2000. Si comparamos esta tabla con el número de documentos por año que figura en la Tabla 1 y con el FI medio que figura en la Tabla 4 podemos comprobar que, aunque en los dos últimos años se han producido menos documentos, éstos son de mayor calidad puesto que alcanzan un mayor FI tanto medio como absoluto.

Tabla 3.

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Total 1991-2000
119,2	124,6	240,2	154,1	196,0	211,5	246,3	298,1	292,4	306,9	2189,2

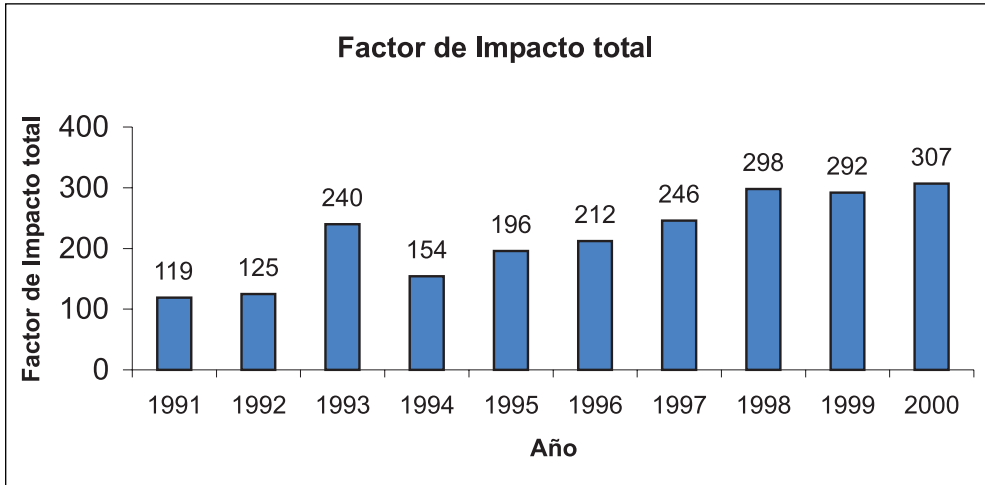


Figura 3. Distribución del Factor de Impacto total de los años analizados. Cada valor se obtuvo sumando el Factor de Impacto de todos los documentos de ese año.

3.d. Factor de Impacto medio.

El FI medio se ha calculado dividiendo el sumatorio del FI durante un periodo de tiempo por el número de documentos correspondientes a ese periodo de tiempo. Como puede verse, el FI medio en líneas generales se ha ido incrementando progresivamente durante la década, indicativo de que la calidad media de los documentos es elevada y ha ido en aumento.

Tabla 4.

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Media Total 1991-2000
1,589	1,557	1,937	1,622	1,815	1,666	2,019	1,863	2,045	2,208	1,866

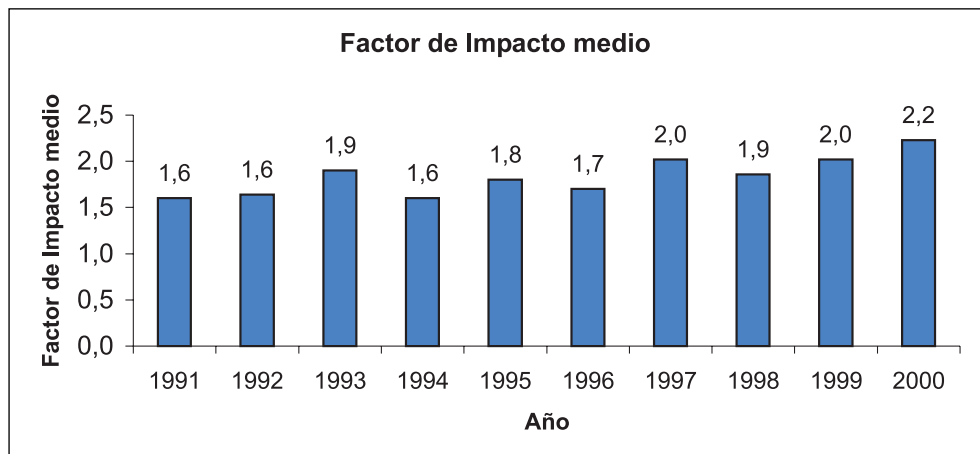


Figura 4. Distribución del Factor de Impacto medio de los años analizados.

3.e. Número medio de veces que cada documento es citado en otras publicaciones científicas.

El número de veces que un documento es citado en otras revistas científicas representa el impacto de ese documento en la comunidad científica como base de futuras investigaciones. Hemos contabilizado el número de veces que los documentos que figuran listados al final de esta memoria han sido citados hasta el año 2000. Esta información puede ser variable dado que el número de citas que recibe un documento está variando continuamente conforme se producen nuevas publicaciones. Además, el número de citas que recibe un documento depende de la “vida” de ese documento; cuanto más tiempo haya transcurrido desde la publicación de un documento más posibilidades tendrá de ser citado. Por el contrario, los documentos publicados recientemente todavía no han tenido la posibilidad de ser citados. Por esta razón sólo hemos analizado los documentos publicados desde el año 1991 hasta el año 1997. En 613 documentos publicados durante este periodo de tiempo hemos calculado el número medio de veces que un documento ha sido citado desde su publicación hasta el año 2000. La información sobre el número de veces que un documento recibe una citación se ha obtenido de las bases de datos del ISI. Los resultados obtenidos figuran en la Tabla 5 y se muestran gráficamente en la Figura 5. Puede observarse que los valores obtenidos oscilan entre 3,4 en 1996 y 6,6 en 1993. Una exposición más detallada del número de citaciones aparece en la Tabla 10. Como índice de comparación es importante destacar que en el área de Ciencias Médicas el 50% de los trabajos publicados en revistas internacionales no son citados nunca. Esto no significa que los documentos no hayan sido leídos y apreciados por la comunidad, pero indica que no son base conceptual o argumental para trabajos posteriores.

Tabla 5.

1991	1992	1993	1994	1995	1996	1997	Media 1991-1997
6,3	4,4	6,6	5,5	3,8	3,4	5,1	5.0

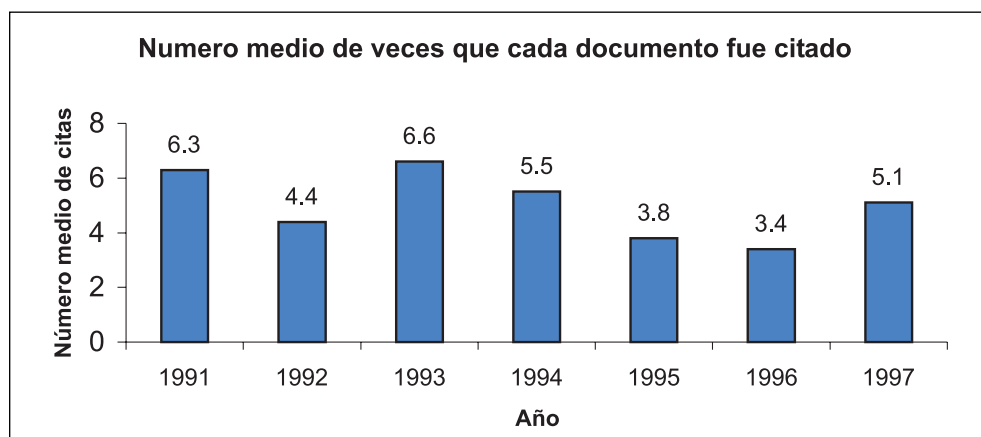


Figura 5. Distribución de las citas de los documentos por años. El valor de cada barra del histograma representa el número medio de veces que un documento publicado ese año es citado en otras revistas científicas desde su publicación hasta el año 2000.

3.f. Número medio de páginas por documento.

El número medio de páginas por documento se ha mantenido bastante constante a lo largo de toda la década, oscilando entre 4,6 y 6,6 páginas. La Tabla 6 y la Figura 6 muestran la distribución anual del número medio de páginas de los documentos. Estos datos sugieren que la producción científica está orientada preferentemente hacia artículos extensos.

Tabla 6.

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Media 1991-2000
6,1	4,6	5,3	5,4	5,7	5,3	6,6	5,6	5,6	6,2	5,7

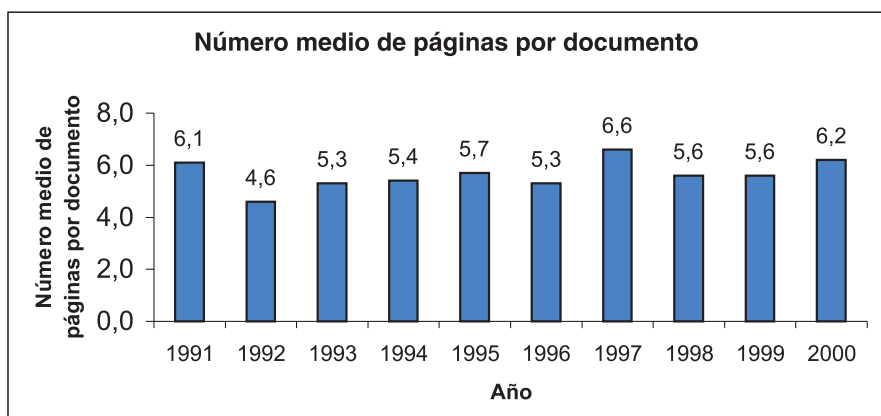


Figura 6. Distribución de la extensión de los documentos analizados. Cada columna del histograma representa la extensión media en número de páginas de los documentos publicados ese año.

3.g. Número medio de autores por documento.

El número medio de autores por documento aparece en la Tabla 7 y en la Figura 7. Este número oscila entre 4,7 y 6,6 autores. Si bien un número de autores amplio es una característica de las publicaciones biomédicas, se debe observar que en nuestro caso el número permanece estable a lo largo de los 10 años estudiados. En este apartado se excluyeron los estudios multicéntricos.

Tabla 7.

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Media 1991-2000
5,1	4,7	5,4	5,0	4,9	6,6	5,5	5,2	5,7	5,2	5,4

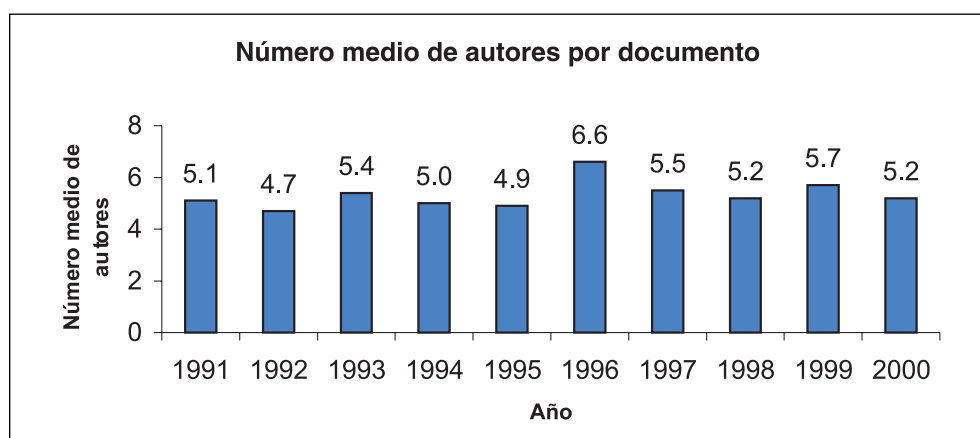


Figura 7. Distribución del número medio de autores por documento. Cada barra del histograma representa el número medio de autores por documento del conjunto de documentos publicados en ese año.

3.h. Personal de cada institución y participación en la publicación de documentos.

En el momento de redactar esta memoria (mediados de 2001) pertenecían al Complejo Hospitalario Universitario de Santiago un total de 627 facultativos (excluyendo Médicos Internos Residentes y Contratados de Investigación) y a la Facultad de Medicina y Odontología un total de 286 profesores (excluyendo los que imparten docencia en instituciones sanitarias diferentes al CHUS). Del total de 751 personas que pertenecen a una o ambas instituciones, 465 pertenecen exclusivamente al CHUS, 162 son simultáneamente facultativos del CHUS y profesores de la Facultad de Medicina y Odontología, y 124 pertenecen exclusivamente a la Facultad de Medicina y Odontología. La Tabla 8 muestra la distribución de personas de ambas instituciones y su participación en la producción de documentos. Puede observarse que aproximadamente la mitad de las personas vinculadas a estas instituciones (415, un 55%) no han participado en publicaciones científicas referenciadas en el JCR durante el perio-

do de tiempo estudiado. El mayor valor porcentual de actividad científica en lo que se refiere a producción de documentos corresponde al colectivo de personas que están vinculadas simultáneamente a las dos instituciones (111 personas, un 69%, han participado alguna vez en la publicación de un documento), seguido por los que pertenecen sólo a la Facultad (72 personas, un 58%, han participado alguna vez en la publicación de un documento) y por los que pertenecen sólo al CHUS (153 personas, un 33%, han participado alguna vez en la publicación de un documento). La razón de estas diferencias probablemente resida en la valoración que se le da a la actividad científica para la promoción personal en cada una de estas dos instituciones.

Tabla 8.

	Sólo CHUS	Sólo Facultad	CHUS y Facultad	Total CHUS	Total Facultad	Total
Personas que no figuran en ningún documento.....	312 (67%)	52 (42%)	51 (31%)	363 (58%)	103 (36%)	415 (55%)
Personas que figuran en al menos un documento.....	153 (33%)	72 (58%)	111 (69%)	264 (42%)	183 (64%)	336 (45%)
Total.....	465 (100%)	124 (100%)	162 (100%)	627 (100%)	286 (100%)	751 (100%)

Sólo CHUS: personas que pertenecen al CHUS pero no a la Facultad. *Sólo Facultad:* personas que pertenecen a la Facultad pero no al CHUS. *CHUS y Facultad:* personas que pertenecen a ambas instituciones. *Total CHUS:* personas que pertenecen al CHUS incluyendo las que perteneciendo al CHUS también pertenecen a la Facultad. *Total Facultad:* personas que pertenecen a la Facultad, incluidas las que perteneciendo a la Facultad también pertenecen al CHUS. *Total:* total de personas que pertenecen al CHUS, a la Facultad o a ambas instituciones. Como pertenecientes al CHUS se incluyen todos los facultativos pero se excluyen los Médicos Internos Residentes y Contratados de Investigación. Como pertenecientes a la Facultad de Medicina y Odontología se incluyen todos los profesores excepto los que imparten docencia en otros hospitales diferentes del CHUS. Por Facultad se entiende la Facultad de Medicina y Odontología.

4. RESULTADOS DESGLOSADOS.

A continuación se presenta un análisis desglosado por anualidades de diferentes parámetros indicativos de la producción científica del Complejo Hospitalario Universitario de Santiago y de la Facultad de Medicina y Odontología de Santiago de Compostela.

4.a. Distribución documentos por Factor de Impacto y año.

Para hacer este análisis se han agrupado los documentos en función del FI de la revista en que fueron publicados y en función del año en que fueron publicados. En la Tabla 9 se muestran los resultados. La primera fila incluye los documentos que han sido publicados en revistas con un FI entre 0 y 0,5. En la segunda los documentos publicados en revistas con un FI mayor que 0,5 y menor o igual que 1,0. De forma similar se incluyen los documentos en las restantes filas menos la última, en la que se incluyen todos los documentos publicados en revistas con un FI mayor que 10. Estos resultados se muestran de forma gráfica en la Figura 9 en donde aparece una distribución global del número de documentos en función de su FI, indicado en la columna de la derecha de la Tabla 9.

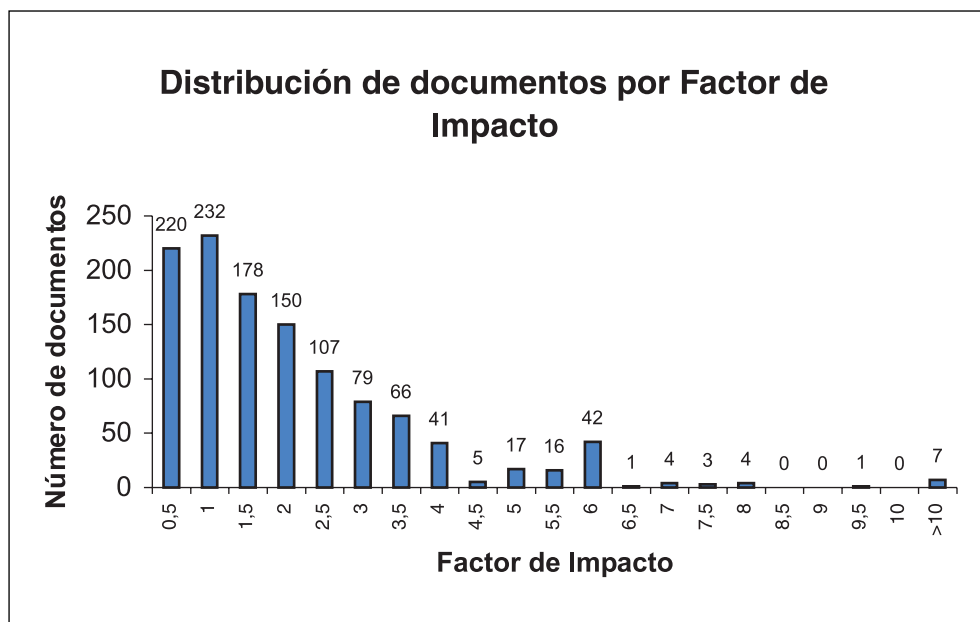


Figura 9. Distribución de los documentos agrupados por Factor de Impacto.

Tabla 9.

FI	Número de Documentos										Total
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
0,5	17	11	17	26	33	29	20	26	22	19	220 (18,8%)
1	11	27	33	18	13	28	24	38	20	20	232 (19,8%)
1,5	14	13	14	13	14	17	21	23	20	29	178 (15,2%)
2	12	7	20	9	11	14	16	17	28	16	150 (12,8%)
2,5	5	7	12	10	6	12	10	14	13	18	107 (9,1%)
3	8	5	10	7	5	10	8	8	12	6	79 (6,7%)
3,5	3	6	7	2	11	6	4	13	5	9	66 (5,6%)
4	2	1	2	5	3	5	1	6	8	8	41(3,5%)
4,5	1	1	0	1	0	0	0	2	0	0	5 (0,4%)
5	0	0	2	0	3	0	5	1	3	3	17 (1,4%)
5,5	1	0	0	0	2	1	5	1	3	3	16 (1,4%)
6	1	1	6	2	7	3	5	8	4	5	42 (3,6%)
6,5	0	0	0	0	0	0	0	0	1	0	1 (0,1%)
7	0	0	0	1	0	0	0	2	1	0	4 (0,3%)
7,5	0	0	0	0	0	0	1	1	1	0	3 (0,3%)
8	0	1	0	1	0	0	0	0	2	0	4 (0,3%)
8,5	0	0	0	0	0	0	0	0	0	0	0 (0%)
9	0	0	0	0	0	0	0	0	0	0	0 (0%)
9,5	0	0	0	0	0	0	1	0	0	0	1 (0,1%)
10	0	0	0	0	0	0	0	0	0	0	0(0%)
>10	0	0	1	0	0	2	1	0	0	3	7 (0,6%)
Total	75	80	124	95	108	127	122	160	143	139	1.173 (100%)

4.b. Distribución de documentos por número de veces que han sido citados en otras publicaciones.

En 613 documentos publicados desde 1991 hasta 1997 se ha realizado una búsqueda de citaciones en la base de datos del ISI para comprobar el número de veces que un documento aparece citado en otros documentos publicados en alguna de las revistas científicas incluidas en esta base de datos. Este parámetro está influenciado por el tiempo que transcurre desde que aparece el documento analizado hasta que se hace el recuento de citaciones. Cuanto más tiempo transcurra entre ambos más probabilidades tiene un documento de ser citado. Por esta razón el estudio se ha limitado sólo a los artículos publicados desde 1991 hasta 1997. La Tabla 10 muestra la distribución de documentos en función del número de citas que ha recibido y del año en el que se ha publicado. En esta tabla las líneas correspondientes a los números de citas para los que no había ningún documento se han eliminado. Tal como es habitual en las publicaciones médicas muchos documentos nunca se citan (aproximadamente un 50% en

Biomedicina). La Figura 10 muestra la distribución del número de documentos en función del número de veces que han sido citados. Puede observarse que el rango de citas más frecuentes que recibe un documento (si excluimos los documentos no citados nunca) va desde 1 a 4. El número medio de citas que recibió el conjunto de documentos publicados en este periodo de 7 años ha sido de 5 citas por documento (Tabla 5). El máximo número de veces que ha aparecido citado un documento ha sido de 123 (Tabla 10).

Para un documento dado podemos manejar para su evaluación dos variables, FI de la revista en que se publica y número de citas que recibe. El FI es un índice de calidad inmediato y de fácil acceso. En definitiva asume que si una revista es de alta calidad (alto FI) todos los trabajos publicados en ella deben compartir esa calidad y visibilidad internacional. El FI hace de subrogado de la calidad del trabajo. El número de citas es más adecuado para valorar un trabajo concreto, no obstante tiene dificultades de cálculo. Dado que las citas crecen y decrecen en una secuencia temporal no se pueden analizar documentos publicados muy cercanos en el tiempo con respecto al momento en el que se realiza el análisis. Además presenta el inconveniente de que aproximadamente el 50% de los documentos publicados nunca reciben una sola cita, aunque esto no signifique que no hayan sido leídos o que no tengan influencia sobre otras publicaciones. Como ejemplo de ello, las notas clínicas rara vez son citadas por lo cual los editores son reacios a publicarlas o intentan publicar un número escaso de las mismas, dado que rebajan el FI de la revista. De igual forma, revisiones o publicaciones con técnicas analíticas reciben un número desmedidamente elevado, dado que son citados rutinariamente.

Tabla 10.

Citas	Número de Documentos y Año de Publicación							
	1991	1992	1993	1994	1995	1996	1997	Total 92-97
0	28	25	40	40	53	44	71	301 (49,1%)
1	4	7	9	5	5	11	6	47 (7,7%)
2	2	3	4	5	4	12	10	40 (6,5%)
3	1	4	4	6	8	9	8	40 (6,5%)
4	4	0	6	3	5	8	6	32 (5,2%)
5	2	1	1	2	2	1	3	12 (2,5%)
6	1	3	3	3	3	5	0	18 (2,9%)
7	0	0	4	1	4	4	0	13 (2,1%)
8	2	2	2	2	3	3	4	18 (2,9%)
9	0	2	6	1	2	2	1	14 (2,3%)
10	2	0	3	2	1	2	1	11 (1,8%)
11	1	1	0	0	1	0	0	3 (0,5%)
12	1	1	2	1	1	1	1	8 (1,3%)
13	1	1	1	1	1	1	0	6 (1,0%)
14	0	0	1	0	1	0	1	3 (0,5%)
15	0	0	1	0	1	0	0	2 (0,3%)
16	0	1	1	0	0	2	0	4 (0,7%)
18	0	1	2	1	0	1	0	5 (0,8%)
19	0	0	1	1	0	0	0	2 (0,3%)
20	0	0	1	0	1	0	0	2 (0,3%)
21	0	0	1	0	0	0	1	2 (0,3%)
22	1	1	0	0	1	0	0	3 (0,5%)
23	1	0	0	0	0	0	1	2 (0,3%)
24	0	0	0	0	0	1	0	1(0,2%)
27	0	0	0	0	1	1	1	3 (0,5%)
29	0	0	0	0	0	0	1	1 (0,2%)
32	3	0	0	0	0	0	0	3 (0,5%)
33	0	0	0	0	0	0	1	1 (0,2%)
35	0	0	0	0	0	1	0	1 (0,2%)
36	0	0	0	1	0	0	0	1 (0,2%)
40	0	0	0	0	1	0	0	1 (0,2%)
42	0	0	0	0	0	0	1	1 (0,2%)
44	1	0	0	0	0	0	0	1 (0,2%)
45	0	0	0	0	0	0	1	1 (0,2%)
49	0	0	1	0	1	0	0	2 (0,3%)
50	0	0	0	0	0	0	1	1 (0,2%)
51	1	0	0	0	0	0	0	1 (0,2%)
61	0	0	1	0	0	0	0	1 (0,2%)
66	0	1	0	0	0	0	0	1 (0,2%)
67	0	0	0	0	0	0	1	1 (0,2%)
77	0	0	1	0	0	0	0	1 (0,2%)
86	0	0	1	0	0	0	0	1 (0,2%)
123	0	0	0	0	0	0	1	1 (0,2%)
Total	56	54	97	75	100		122	613 (100%)

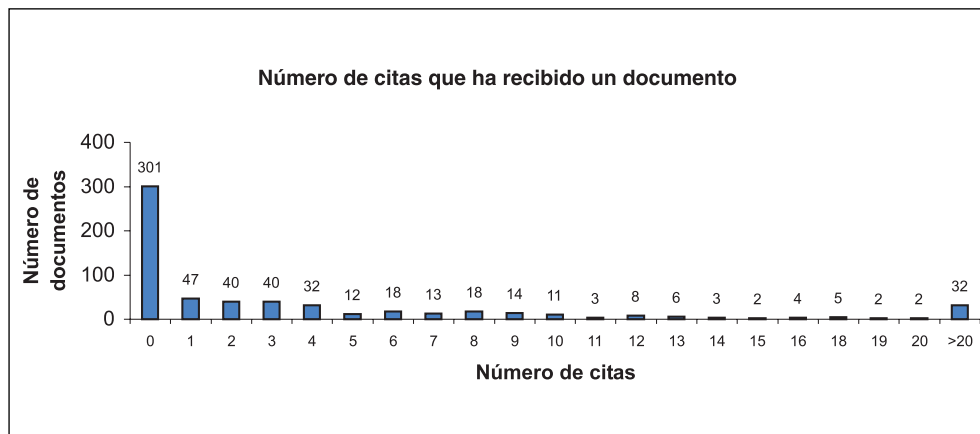


Figura 10. Distribución de los documentos de acuerdo con el número de veces que han sido citados en otras revistas científicas. La distribución corresponde a 613 documentos publicados entre 1991 y 1997 y las citas se han contabilizado desde su publicación hasta el año 2000.

4c. Relación entre el Factor de Impacto y el número de citaciones.

En 613 documentos de los 731 publicados desde 1991 a 1997 se ha calculado el coeficiente de correlación entre el FI que le corresponde a un documento y el número de veces que es citado. En la Figura 11 se presenta la recta de regresión entre estos dos parámetros para los 613 documentos mencionados. Como puede verse hay una ligera tendencia hacia la relación entre FI alto y mayor número de citas, sin embargo el coeficiente de correlación es muy bajo (0,30). La misma comprobación se ha realizado para los 32 documentos con un número de citaciones superior a 20 (Figura 12). El resultado ha sido similar, con un coeficiente de correlación incluso menor (0,14). Estos resultados muestran que, aunque un número importante de documentos se publican en revistas con FI alto, eso no garantiza que vayan a ser citadas en otras publicaciones científicas.

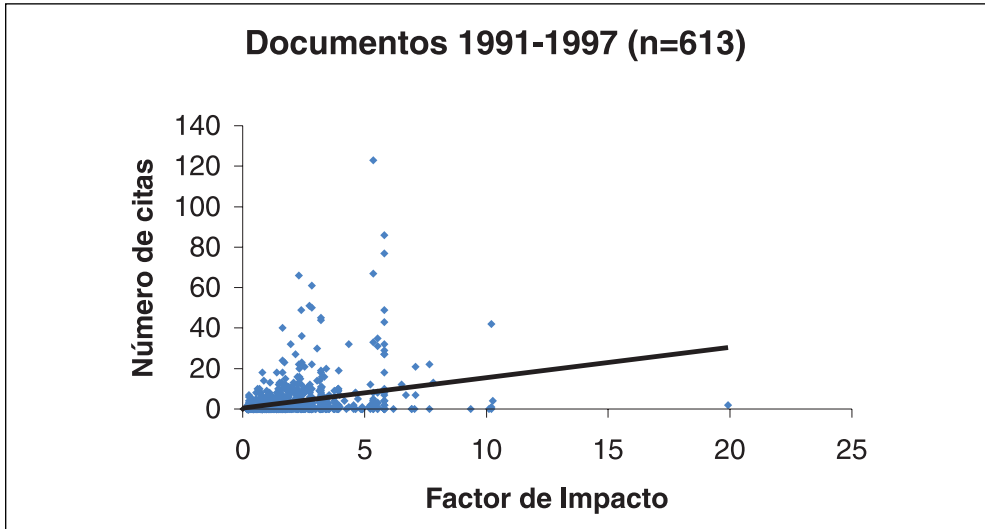


Figura 11. Relación entre el Factor de Impacto asignado a un documento y el número de citas que recibe. La línea recta es la recta de regresión calculada a partir de los valores representados por los puntos.

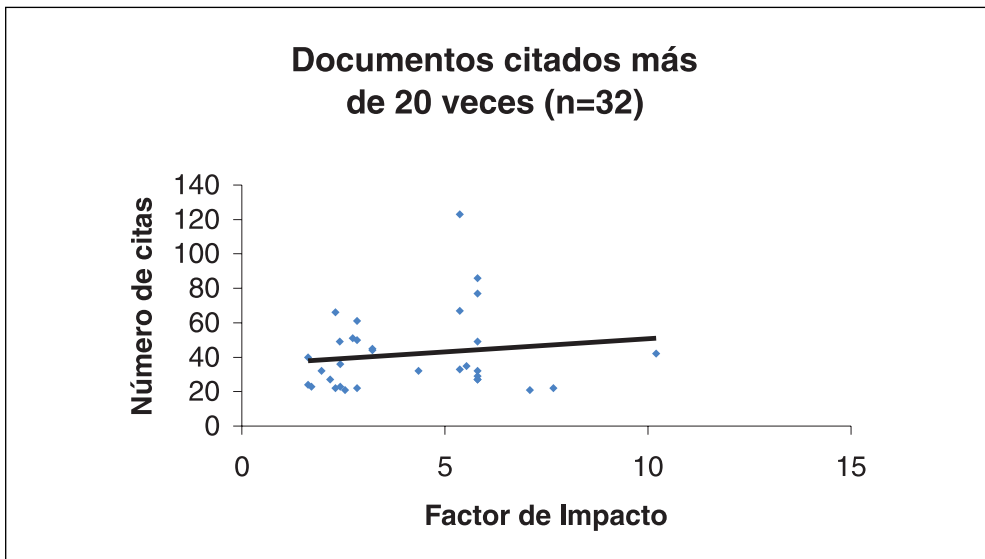


Figura 12. Relación entre el Factor de Impacto asignado a los documentos que han recibido más de 20 citas desde su publicación hasta el año 2000 y el número de citas que recibe. La línea recta es la recta de regresión calculada a partir de los valores representados por los puntos.

4.d. Distribución de documentos por número de páginas.

Aunque el número de páginas que tiene un documento puede no ser exactamente un indicativo de su calidad, en cierta medida sí tiene relación con la cantidad de información científica que aporta. Además, en general los documentos de una o dos páginas suelen corresponderse con casos clínicos o comunicaciones breves que no necesariamente implican un trabajo acabado de investigación. El número de páginas medio de los documentos incluidos en este estudio es de 5,7 páginas por documento (Tabla 6). En la Tabla 11 puede verse que sólo un 14% de los documentos tienen una o dos páginas. La Figura 13 muestra que la distribución de documentos en función de su número de páginas tiene aspecto de una curva normal, con el máximo en 4 páginas por documento. Esto indica que los documentos analizados en este estudio se corresponden con lo que podríamos denominar “full-papers”, es decir documentos que contienen información científica resultado de un trabajo de investigación importante.

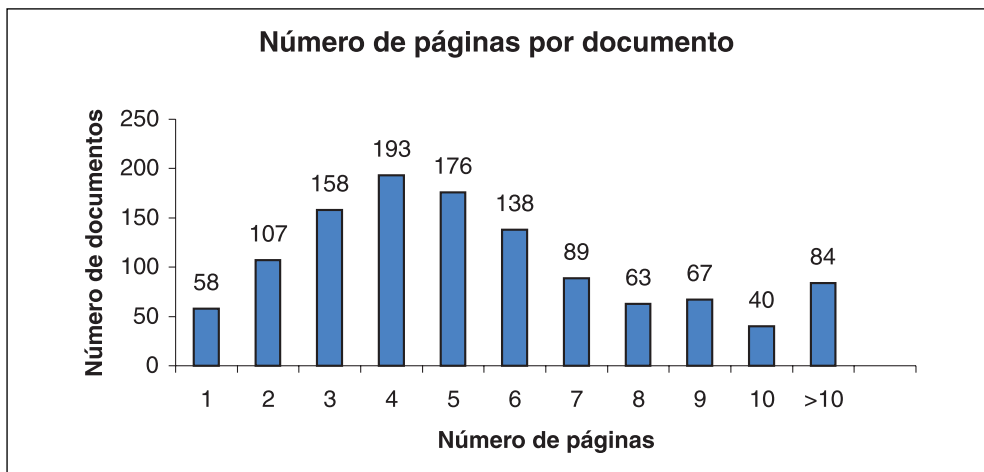


Figura 13. Distribución de documentos de acuerdo con su extensión expresada en número de páginas.

Tabla 11.

Pág.	Número de Documentos										Total
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
1	3	15	8	7	5	3	1	5	8	3	58 (4,9%)
2	6	8	16	10	11	12	8	13	10	13	107 (9,1%)
3	6	14	17	12	13	21	22	22	15	16	158 (13,5%)
4	11	13	19	12	17	21	20	31	27	22	193 (16,5%)
5	11	10	17	16	18	19	15	29	22	19	176 (15,0%)
6	11	6	13	12	12	21	10	18	21	14	138 (11,8%)
7	11	4	6	6	9	5	6	14	10	18	89 (7,6%)
8	2	2	9	4	5	9	7	8	11	6	63 (5,4%)
9	5	3	6	8	5	7	12	3	10	8	67 (5,7%)
10	2	1	4	2	3	4	7	3	5	9	40 (3,4%)
>10	7	4	9	6	10	5	14	14	4	11	84 (7,2%)
Total	75	80	124	95	108	127	122	160	143	139	1173 (100%)

4.e. Distribución de documentos por número de autores.

El número de autores de un documento es un parámetro fácil de obtener pero difícil de valorar. En un entorno competitivo y sin regulación clara para la valoración de la actividad de las personas suele recurrirse al simple recuento del número de documentos en los que una persona figura como coautor para juzgar su capacidad científica. En los documentos del presente estudio puede observarse una tendencia a la publicación de documentos con un número elevado de coautores. En la Tabla 12 puede observarse que un 23% de los documentos tienen más de seis autores (límite que muchas revistas ponen para el número de autores que pueden salir listados en las referencias). La Figura 14 muestra claramente la tendencia ascendente del número de autores por documento, estando la media en 5,4 autores por documento para el periodo analizado de 10 años (Tabla 7).

De cualquier forma este parámetro se mueve en los límites habituales de la producción científica biomédica internacional.

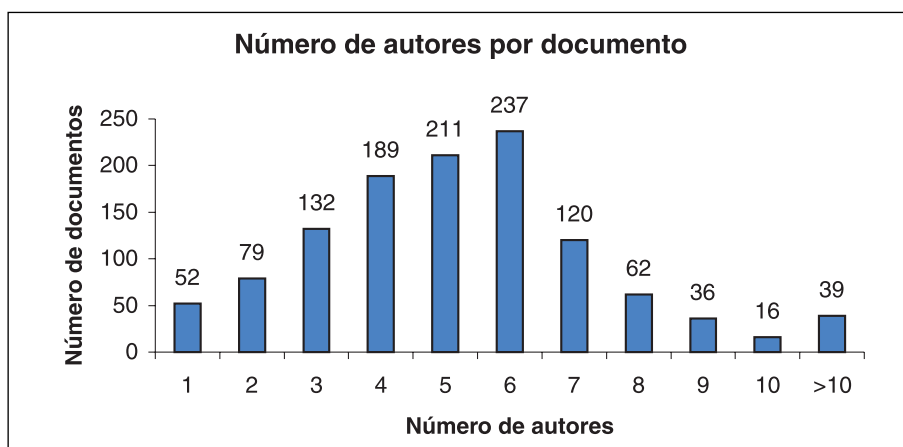


Figura 14. Distribución de los documentos publicados en la década analizada de acuerdo con el número de autores que lo firman.

Tabla 12.

Numero de Autores	Número de Documentos										
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Total
1	2	6	7	4	7	3	5	8	5	5	52 (4,4%)
2	4	8	4	6	10	8	5	14	7	13	79 (6,7%)
3	5	9	11	14	9	12	15	22	14	21	132 (11,3%)
4	17	17	21	15	13	14	23	28	20	21	189 (16,1%)
5	14	14	31	20	25	24	15	23	26	19	211 (18,0%)
6	22	13	23	21	23	31	27	20	31	26	237 (20,2%)
7	8	9	13	5	12	15	14	18	15	11	120 (10,2%)
8	0	2	5	5	4	7	9	11	10	9	62 (5,3%)
9	2	0	4	0	2	2	3	10	9	5	36 (3,1%)
10	0	0	1	1	1	3	1	3	1	5	16 (1,4%)
>10	1	2	4	4	2	8	5	3	5	5	39 (3,3%)
Total	75	80	124	95	108	127	122	160	143	139	1173 (100%)

4.f. Personal de cada institución y número de documentos por persona.

La actividad científica del colectivo de personas vinculadas a las instituciones analizadas se desglosa en la Tabla 13. Es necesario subrayar que los datos presentados en esta tabla pueden tener cierto margen de error debido a que ha sido difícil asignar inequívocamente un autor a una persona. La razón de esta dificultad está en que habitualmente en los documentos publicados figura la inicial del nombre y un sólo apellido de cada autor. La Tabla 13 muestra el número de personas de cada colectivo en función del número de documentos en los que ha participado como coautor. Tal como se indica también en la Tabla 8, puede comprobarse que aproximadamente la mitad de las personas (415/751, 55%) de estas dos instituciones no ha participado en la publicación de ningún documento y que aproximadamente un 10% (65/751, 9%) ha participado en la publicación de más de 10 documentos en el periodo analizado, es decir una media aproximada de un documento por año.

Tabla 13.

Número de Documentos	Sólo CHUS	Sólo Facultad	CHUS y Facultad	Total CHUS	Total Facultad	Total
0	312 (67%)	52 (42%)	51 (31%)	363 (58%)	103 (36%)	415 (55%)
1	48 (10%)	13 (10%)	29 (18%)	77 (12%)	42 (15%)	90 (12%)
2	27 (6%)	10 (8%)	10 (6%)	37 (6%)	20 (7%)	47 (6%)
3	18 (4%)	10 (8%)	7 (4%)	25 (4%)	17 (6%)	35 (5%)
4	12 (3%)	3 (2%)	6 (4%)	18 (3%)	9 (3%)	21 (3%)
5	9 (2%)	3 (2%)	6 (4%)	15 (2%)	9 (3%)	18 (2%)
6	5 (1%)	5 (4%)	4 (2%)	9 (1%)	9 (3%)	14 (2%)
7	7 (2%)	1 (1%)	4 (2%)	11 (2%)	5 (2%)	12 (2%)
8	6 (1%)	2 (2%)	7 (4%)	13 (2%)	9 (3%)	15 (2%)
9	2 (0%)	4 (3%)	0 (0%)	2 (0%)	4 (1%)	6 (1%)
10	3 (1%)	2 (2%)	8 (5%)	11 (2%)	10 (3%)	13 (2%)
>10	16 (3%)	19 (15%)	30 (19%)	46 (7%)	49 (17%)	65 (9%)
Total	465 (100%)	124 (100%)	162 (100%)	627 (100%)	286 (100%)	751 (100%)

Sólo CHUS: personas que pertenecen al CHUS y no a la Facultad. *Sólo Facultad:* personas que pertenecen a la Facultad y no al CHUS. *CHUS y Facultad:* personas que pertenecen a ambas instituciones. *Total CHUS:* personas que pertenecen al CHUS incluyendo las que perteneciendo al CHUS también pertenecen a la Facultad. *Total Facultad:* personas que pertenecen a la Facultad, incluidas las que perteneciendo a la Facultad también pertenecen al CHUS. *Total:* total de personas que pertenecen al CHUS, a la Facultad o a ambas instituciones. Como pertenecientes al CHUS se incluyen todos los facultativos pero se excluyen los Médicos Internos Residentes y los Contratados de Investigación. Como pertenecientes a la Facultad de Medicina y Odontología se incluyen todos los profesores excepto los que imparten docencia en otros hospitales diferentes del CHUS. Por Facultad se entiende la Facultad de Medicina y Odontología.

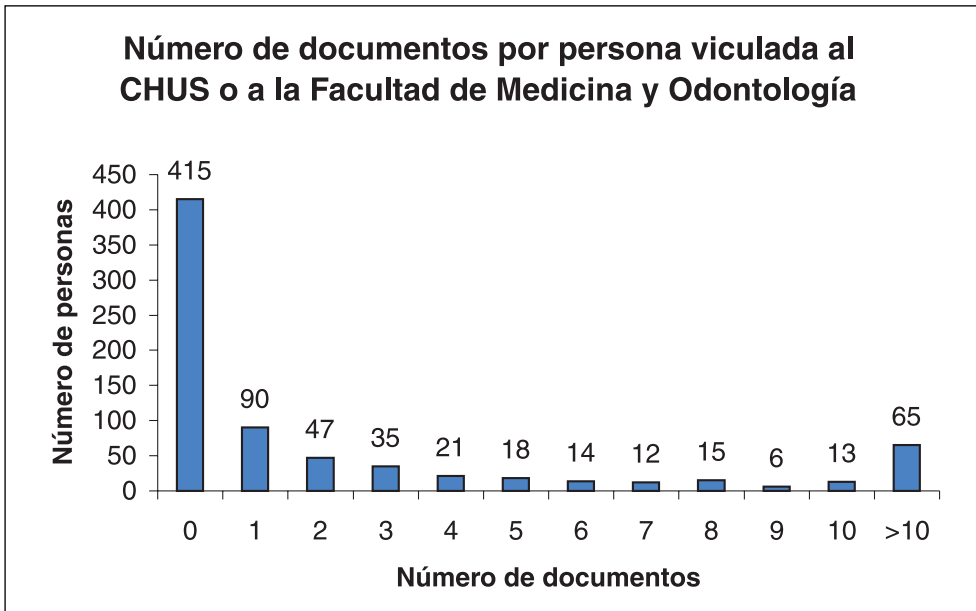


Figura 15. Distribución del número de veces que una persona vinculada a una o a ambas de las dos instituciones analizadas en este estudio figura como coautor en un documento.

4.g. Producción de documentos por áreas.

En este apartado se incluye la distribución de documentos agrupados por grandes áreas (Tabla 14) que pueden dar una idea del reparto global de las líneas de investigación en nuestra institución. Para decidir la inclusión de un documento en un área se ha tenido en cuenta el tema que trata y la metodología que describe, tarea que no está exenta de errores. En algunos casos un mismo documento ha sido incluido en dos o más áreas por lo que el número total de documentos incluidos en la Tabla 14 supera el número total de documentos referenciados en esta memoria. Las áreas de actividad científica no coinciden con las áreas clásicas como Medicina Interna, Cirugía General, etc. Áreas como la oncología por ejemplo, se nutren de trabajos procedentes de áreas clásicas con lo que dan lugar a una clasificación más moderna de la actividad científica.

Tabla 14.

Area	Documentos publicados
Alérgia	13
Anatomía Patológica	45
Biología Celular y Molecular	22
Cardiología e Hipertensión	62
Ciencias Forenses y Medicina Legal	93
Dermatología	44
Endocrinología y Nutrición	220
Gastroenterología y Hepatología	30
Ginecología y Obstetricia	10
Enfermedades Infecciosas	47
Laboratorio, Microbiología e Inmunología	42
Medicina Preventiva, Epidemiología y Estadística	11
Nefrología y Urología	32
Neumología	15
Neurociencias	297
Odontología y Maxilofacial	25
Oftalmología	32
Oncología y Hematología	41
Radiodiagnóstico	23
Reumatología	17
Otros	29

5. CONCLUSIONES

Creemos que este análisis de una década de producción científica en las instituciones Complejo Hospitalario Universitario de Santiago-Facultad de Medicina y Odontología de Santiago de Compostela aporta información relevante para los profesionales de las mismas. La información que aquí se presenta no sólo permitirá disponer de una base de datos sobre los documentos científicos publicados sino que además ayudará a reflexionar sobre nuestro quehacer investigador y servirá para mejorarlo. Sin arrogancia pero también sin falsa modestia, consideramos que los profesionales de ambas instituciones pueden considerarse orgullosos del trabajo realizado y a la vista de los resultados, sentirse estimulados para futuras empresas.

LISTADO DE LOS DOCUMENTOS INCLUIDOS EN ESTE ESTUDIO

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