LN. 111.9.

LEAGUE OF NATIONS HEALTH ORGANISATION

ANNUAL REPORT ON THE RESULTS OF RADIOTHERAPY IN CANCER OF THE UTERINE CERVIX

Second Volume

STATEMENTS OF RESULTS OBTAINED IN 1931 AND PREVIOUS YEARS

(collated in 1937)

EDITED BY J. HEYMAN, M. D. STOCKHOLM

A French edition of this Report is available.

# Publications of the Health Section of the League of Nations

Report on the Results of Demographic Investigations in Certain Selected Countries. (C. H. 333. Vol. I)	8/-	\$2.00
Report on the Results of Certain Clinical Enquiries relating to Differences of Cancer Mortality in Certain		
Selected Countries. (C. II. 333. Vol. II)	1/9	\$0.40
Considerations regarding the Possible Relationship of Cancer to Race, based on a Study of Anthropological and Medical Statistics of Certain European Countries, by Alfredo NICEFORO, Professor of Statistics and Demo- graphy at the University of Naples, and Eugène PITTARD, Professor of Anthropology at the University of Geneva.		
(French text only.) (C. II. 492.) (Ser. L. o. N. P. 1926. III. 24)	12/-	\$3.00
Report on the Work of the Cancer Commission for the Years 1923-1927, presented to the Health Com- mittee on behalf of the Commission, by Sir George BUCHANAN (President), November 1927. (C. II. 631 (1).) (C. H./Cancer/42(2).) Ser. L. o. N. P. 1927. III. 17)	9d.	\$0.15
Reports submitted by the Sub-Commission. (C. H. 788.) (Ser. L. o. N. P. 1929. III. 5).	6/-	\$1.50
Annual Report on the Results of Radiotherapy in Can- cer of the Uterine Cervix. First Volume. Statements of Results obtained in 1930 and Previous Years. (Col- lated in 1936.) Edited by J. HEYMAN, M. D., Stockholm. (C. H. 1225). (Ser. L. o. N. P. 1937. III. 2)	1/6	\$0.40
Atlas Illustrating the Division of Cancer of the Uterine		
Cervix into Four Stages, by J. HEYMAN, M. D., Stockholm (C. H./Cancer/67.)	7/6	\$2.00

Official No.: C. H. 1338

# LEAGUE OF NATIONS HEALTH ORGANISATION

# ANNUAL REPORT ON THE RESULTS OF RADIOTHERAPY IN CANCER OF THE UTERINE CERVIX

Second Volume

# STATEMENTS OF RESULTS OBTAINED IN 1931 AND PREVIOUS YEARS

(collated in 1937)

Edited by: J. HEYMAN, M.D. Stockholm



Series of League of Nations Publications III. HEALTH 1938, III. 2.

#### PREFACE

The Health Organisation desires to record its gratitude to all those who have undertaken the laborious work of collecting the detailed clinical and other data necessary for the compilation of tabular matter of the kind here presented.

The Health Organisation wishes also to acknowledge its indebtedness to the Advisory Committee (Prof. J. HEYMAN, Radiumhemmet, Stockholm; Dr. A. LACASSAGNE, the Radium Institute of the University, Paris; and Lt.-Col. A. B. SMALLMAN, Ministry of Health, London) for the care bestowed upon the preparation of this report.

(Health Section, League of Nations.)

#### CONTENTS

		Page
I.	INTRODUCTORY	7
II.	Sources of Error in Statistical Assessment of the Results of Treatment	9
III.	Allocation of Cases to their Appropriate Stages, and Defi-	
	NITIONS OF THE STAGES: STEPS TAKEN TO PROMOTE GREATER	
	UNIFORMITY	11
IV.	SECOND ANNUAL REPORT	15
	1. Notes for the guidance of collaborators	15
	2. Specimens of the tables used for cases treated in 1931.	17
	3. Specimens of the tables used for cases treated in previous	91
	4 Definition of the different varieties of utero-vaginal	<i>~</i> 1
	carcinoma	23
	5. Definitions of the four stages of cancer of the cervix	
	uteri	25
	(A) Definitions approved in 1929	25
	(B) Definitions approved in 1937	26
	(a) Memorial Hospital for the Treatment of Concern	
	and Allied Diseases, New York, United States of	
	America	28
	(Contributed by Dr. William P. HEALY.)	
	(b) Woman's Hospital in the State of New York, United	0.4
	(Contributed by Dr. Coorge C. WARD)	31
	(c) The Centre des Tumeurs de l'Université de Pruvelles	
	Belgium	41
	(Contributed by Prof. J. MURDOCH.)	**
	(d) The Liverpool Radium Institute, United Kingdom	
	of Great Britain and Northern Ireland	48
	(Contributed by Dr. P. MALPAS.)	

<sup>&</sup>lt;sup>1</sup> Countries are given in alphabetical order, in French, in accordance with the practice of the League of Nations.

S.d.N. 1.130 (F.) 1.725 (A.) 6/38. Imp. Norstedt, Stockholm.

		Page
(e)	The Marie Curie Hospital, London, United Kingdom of Great Britain and Northern Ireland (Contributed by Dr. Elisabeth HURDON.)	55
([)	Radium Centre for Carcinoma of the Uterus, London County Council, United Kingdom of Great Britain	
	and Northern Ireland	62
(g)	The Institut du Cancer, Paris, France	69
<b>(</b> <i>h</i> )	The Institut du Radium de l'Université de Paris,	20
	(Contributed by Dr. A. Lacassagne.)	19
(i)	The Radiunhemmet, Stockholm, Sweden	86
Sur	nmary	93

\_ 6 \_

7.

## I. INTRODUCTORY.

The First Annual Report,<sup>1</sup> published in 1937, referred to cases treated in 1930 and previous years. The Second Annual Report, which is here presented, includes statements referring to cases treated in 1931.

The Report is still concerned only with cancer of the cervix uteri. The preliminary work for widening the scope of future reports to include analyses of material relating to the corpus uteri and the vagina has not yet been completed.

There has been no modification of the rules or of the Tables recommended in the First Annual Report for the presentation of the data.

In Tables 7, 8, 9 and 10 of the present report, the figures relating to cases treated prior to 1926 are not reproduced by individual years, but are summarized for the whole of the period prior to and including 1925; data for individual years therefore start, in this report, with 1926. A similar procedure will be adopted in future reports. Statements presented by new collaborators whose data have not previously appeared in this series of reports will, on the first occasion, relate to individual years.

The Advisory Committee invites attention to a further effort (see Chapter III) to secure greater comparability among the statements furnished by co-operating clinics. It will be seen that the definitions of the four stages have been slightly modified and given more precision.

All collaborators in the First Annual Report have submitted statements for the present report. The Committee has great pleasure in including statements from three additional collaborators, viz.:

<sup>1</sup> C. H. 1225; League of Nations Publications, Health 1937, III, 2.

Dr. Simone Laborde, Institut du Cancer, Paris;

- Dr. William P. Healy, Memorial Hospital for the Treatment of Cancer and Allied Diseases, New York;
- Dr. George G. Ward, Woman's Hospital in the State of New York.

Several other clinicians have expressed their wish to collaborate in future reports.

The Advisory Committee on the results of radiological treatment of uterine cancer consists of the same members as previously, namely:

Chairman:

Prof. J. HEYMAN, Radiumhemmet, Stockholm.

Members:

Dr. A. LACASSAGNE, Radium Institute of the University, Paris;

Lt.-Col. A. B. SMALLMAN, Ministry of Health, London. Secretary:

Dr. I. WASSERBERG, replaced in January 1938 by

Dr. M. D. MACKENZIE, of the Health Section of the League of Nations Secretariat, Geneva.

The Committee wishes to renew the invitation given in the First Annual Report (page 10) to directors of clinics, and others who are interested in this subject, to communicate with the Chairman with a view to participation in future reports.

# II. SOURCES OF ERROR IN STATISTICAL ASSESSMENT OF THE RESULTS OF TREATMENT.

Some consideration was given to this subject in the First Annual Report, particularly in regard to samples of cases which were numerically small and to lack of comparability between the clinical material at the different clinics, owing to differences of hospital organisation in the countries concerned.

Two other sources of lack of comparability were also mentioned in the First Report, viz., the differentiation of cancer of the corpus from cancer of the cervix, and the limitation of the analyses to patients actually examined at the clinic.

The Committee is aware that, apart from the sources of error mentioned above, there are several other problems which must be duly considered with a view to securing comparability between the statements submitted by different clinics. The Committee intends to study these problems successively, and hopes that collaborators will facilitate this work by placing their experience at the Committee's disposal when required.

Since the preparation of the First Annual Report, the Committee has devoted its principal attention to the means of securing greater uniformity in the allocation to stages of cervical cancers and to the definitions of the four stages. The steps taken by the Committee in this respect are referred to in greater detail later (see Chapter III).

Hitherto no reference has been made to the possibility that such differences as exist between the cure-rates of co-operating clinics may be related to the methods of treatment used in those clinics. The Committee is convinced that consideration of such matters is of small value at present and that it is not yet practicable to assign to differences in methods of treatment, differences in the cure-rates obtained. Work of this kind must be postponed until there is greater certainty that factors, other than the actual treatment used, which are liable to vitiate the reliability of cure-rates stated numerically, have as far as practicable been eliminated. The elimination of such other possible causes of differences in cure-rates constitutes the primary object of the Committee's work in its present phase.

The Committee has noticed with great satisfaction that most reviewers of the First Report have followed the Committee's practice in not drawing conclusions from the results submitted, as to the value of the different methods of treatment employed.

The rules adopted for use in this series of reports are intended to serve as a means of securing a reasonable degree of comparability between the statements furnished by the cooperating clinics. The Committee realises that its system of preparing and presenting the data can be still further improved.

# III. ALLOCATION OF CASES TO THEIR APPROPRIATE STAGES, AND DEFINITIONS OF THE STAGES: STEPS TAKEN TO PROMOTE GREATER UNIFORMITY.

In 1929, certain rules for the allocation to stages of carcinomata of the cervix according to the anatomo-clinical extent of the growth were adopted by the Radiological Sub-Commission of the Cancer Commission of the League of Nations.<sup>1</sup> As noted in the First Annual Report, the Advisory Committee was aware that these rules have been somewhat differently interpreted. Variations due to this cause tend to defeat efforts to secure comparability in the results presented by different clinics.

With the object of endeavouring to promote more uniform "staging", a proposal was made to the Health Organisation of the League of Nations that the Committee should be entrusted with the preparation of a volume illustrating, by appropriate diagrams, examples of the cases to be allocated to each of the four stages.

This proposal was accepted by the Health Organisation, and the work on the preparation of the Atlas was entrusted to Prof. J. Heyman in collaboration with Dr. M. Strandquist, both of the Radiumhemmet, Stockholm. The Atlas, which contains 38 diagrams drawn by Dr. Strandquist, was published in March 1938. It may be had on application to the Publications Department of the League of Nations, Geneva, Switzerland.\*

The Committee wishes particularly to express its gratitude to Prof. L. Adler, Vienna; Sir Comyns Berkeley, London;

<sup>&</sup>lt;sup>1</sup> C. H. 788; League of Nations Publications, Health 1929, III 5

<sup>\*</sup> Price: Swiss fr. 7.50.

The preparation of the volume has provided the opportunity of slightly modifying the definitions of the four stages adopted in 1929 (see page 25). The proposed modifications, which derive from experience gained during recent years and which aim at a simpler and more precise differentiation between the four stages, were finally approved by the Committee in December 1937.

It is hoped that those interested in this subject will approve to utilize the modified definitions. Collaborators in these reports are requested to adopt them from 1938 onwards (see note page 25).

The following extract from the Atlas, which discusses the above subject in greater detail, is printed for the use of those interested.

#### "2. Comments on definitions and on allocation of cases to their appropriate stages.

According to the Committee's experience, differences in interpretation of the rules for grouping, which affect materially the comparability of different statistics, occur particularly in differentiating between stages II and III and in those cases where the degree of involvement of the parametrium should be the deciding factor. In the 1929 definitions estimation of the extent of involvement of the parametrium was based mainly on the degree of fixation of the uterus. In the revised definitions (see page 26) the distinction between stage II and stage III has been based solely on what can be established, on rectal and vaginal examination, in regard to the relationship between the growth and the pelvic wall and seems likely to reduce differences due to subjective interpretation. The pelvic wall is understood to consist of the pelvic bone, its muscles, fasciae, vessels and lymph-nodes as indicated in the diagrams of the Atlas, that is the pelvic wall as appreciated by the exploring finger.

The definitions have been much simplified in those cases.

where allocation to a stage is governed by the vaginal extent of the growth.

The definitions of 1929 were drawn up on an anatomical basis and, as regards stage IV, to counteract a previously generally accepted idea that hopeless cases should be included in that stage. It does not appear, however, that the result has been entirely satisfactory. There are numerous cases which are hopeless owing to the patients' general condition but which. judged by the extent of the growth, should be classified as stage III; on the other hand there are a certain number of cases which are not hopeless, but which, following the 1929 definitions of stage IV, paragraph (a) and (c), belong to that stage. The Committee therefore suggests including in stage IV those cases only in which the bladder or the rectum is involved or in which spread outside the true pelvis has occurred. The proposed modifications will undoubtedly reduce comparability between the results obtained before and after 1938 at the same clinic, but this is of minor importance, because it will not affect the comparability of the results obtained in the same year at different clinics.

A case should be allocated to its stage by the condition found on inspection, on bimanual examination, vaginal and rectal, and on cystoscopy when there is a question of involvement of the bladder.

It is to be expected that the simplified definitions and illustrative diagrams will permit of experienced clinicians staging in a reasonably uniform manner those cases in which thorough examination enables the extent of the growth to be precisely determined. Nevertheless there will remain, for various reasons, a number of cases in which even the most expert examiner may have doubt as to the appropriate stage.

Difficulties may occur for instance:

— in determining whether an individual case should be considered as an advanced example of a certain stage or an early example of the succeeding one. In such instances it should be made a general rule to allocate cases to the prognostically more favourable stages in order not to raise unduly the rates for earlier stages;

- in differentiating between an inflammatory and a carcinomatous infiltration of the parametrium. Uniformity in grouping would be promoted if doubtful infiltrations with consequent fixation of the uterus were consistently recorded as inflammatory;
  - in differentiating between a metastasis and a nodule of some other origin, e. g., a lymphadenitis of non-carcinomatous origin, a remnant of a pelvic peritonitis or a phlebitis. In many instances, particularly of nodules in the vagina and of superficial lymph-nodes, it is easy to confirm the diagnosis by microscopical examination. When this is impracticable it may be justifiable to postpone the final classification and to let the further development of the disease decide. Such a procedure should be adopted only quite exceptionally. As a rule each case should be staged at the examination previous to treatment and should remain in that stage;
  - in cystoscopic diagnosis of carcinomatous involvement of the bladder. Further investigation of this subject is necessary before it can be said with certainty what cystoscopic appearances denote carcinomatous involvement of the bladder and consequent allocation to stage IV."

#### IV. SECOND ANNUAL REPORT.

#### 1. NOTES FOR THE GUIDANCE OF COLLABORATORS.

1. The statement should include cases of cancer of the cervix uteri only (including carcinoma of the stump).

(a) The statement will be confined to cases where the treatment planned was entirely radiological (radium and Roentgen rays).

(b) Patients operated upon after failure of radiological treatment and alive five years after the beginning of the treatment should appear in Table 4, col. 4.

2. The following clinical types of cases should be excluded:

(a) Cancer of the corpus uteri and vagina.<sup>1</sup>

(b) Recurrences after radical operation.

(c) Patients radiologically treated elsewhere.

(d) Patients primarily submitted to combined operative and radiological treatment.

3. Only those series of cases in which all clinical diagnoses have been microscopically confirmed can, as a rule, be accepted.

4. The following histological types of cases should be excluded:

(a) Precancerous conditions.

(b) Chorio-epithelioma, sarcoma, malignant mixed tumours.

- 15 -

<sup>&</sup>lt;sup>1</sup> It is intended to revise, in the future, the definitions of the different varieties of utero-vaginal carcinoma. Pending the results of that revision, the definitions used will be those in the Report of the Radiological Sub-Commission (Series of League of Nations Publications C. H. 788), reprinted on page 23.

5. The statement should relate to the total number of patients whose radiological treatment was begun during the year to which the statement refers, as well as all patients examined with a view to treatment but not treated.

6. The statement should not be completed until a period of observation of at least 5 years from the beginning of the treatment has expired in all cases included.

7. Tables 1-6 are intended for the annual statement relating to cases treated in 1931; tables 7-10 have been provided for those institutes which are able to furnish data for an earlier period on a basis corresponding to that now being adopted in the present series of annual reports.

#### 2. SPECIMENS OF THE TABLES USED FOR CASES TREATED IN 1931.

(Institute)

Cancer of the Cervix uteri.

Statement of results in 19

Table 1.

I.	Total number of patients examined with a view to treatment	
II.	Of those:	
	1. Not treated (Total of cases comprised in Table 2) $\dots$	

2. Radiologically treated (Total of cases included in Table 3)

#### Table 2.

Patients examined at the clinic but not treated.<sup>1</sup>

(a) Prevented by disease or death from presenting themselves	
(b) Seeking treatment elsewhere	
(c) Not presenting themselves for unknown reasons	
(d) Operation advised	
(e) Not accepted owing to lack of accommodation or thera- peutic facilities	
(f) Treatment refused by the patient	
(g) Treatment considered unsuitable owing to the patient's general condition, to the extent of the disease or to other complications	
(h) Some other specified reason	<u></u>
Total	

<sup>1</sup> Patients referred to the clinic by means (e.  $g_{\cdot}$ , letter, telephone etc.) which do not allow of their being examined at the clinic are excluded.

Note:	Calcul	lation	of	absolute	cure	rate	(see	Table	5,	footnote	1) omitted
because	of										
											•••••••••••••••••••••
				•••••	• • • • • • • • •	• • • • • • • • •	• • • • • • •		• • • • •	••••	• • • • • • • • • • • • • • • • • • • •
						• • • • • • • • •				• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •

2-382456

#### Table 3.

#### Patients radiologically treated (Table 1, II, 2).

	Stages <sup>3</sup>	Stages <sup>3</sup> Stage I		Stag	e II	Stag	e III	Stage IV		
	I—IV	Number of cases	Per- centage	Number of cases	Per- centage	Number of cases	Per- centage	Number of cases	Per- centage	
Total number of										
patients treated.								• • • • • • • • • •		
With microscopical verification		···· ········								
Without microscop- ical verification <sup>2</sup>										

<sup>1</sup> Total number of patients treated, incompletely treated patients included. <sup>2</sup> A detailed description should be given for each case in which the patient is alive without recurrence five years from the beginning of treatment, and in which no microscopical verification has been made.

<sup>3</sup> See footnote page 25.

Detailed description of cases alive without recurrence five years after treatment in which no microscopical verification has been made.

(The reason why histological confirmation was not obtained should be stated.)

Results of treatment estimated after a period of observation of five years, dating from the beginning of treatment.

	1.	2.	3.	4.	5.	6,	7.
Stage	Number of patients treated	Alive without recur- rence Alive with recur- rence		Patients alive operated upon after failure of radio- therapy	Died of cancer <sup>1</sup>	Lost sight of	Died of inter- current disease
T							
Π							
III							
IV							
I—IV					••••		

<sup>1</sup> Patients dying during or as a result of treatment should be included in this column.

#### CALCULATION OF RESULTS.

#### Table 5.

#### Absolute cure rate.<sup>1</sup>

Total number of cases (see Table 1. I)	
Alive without recurrence five years after the beginning of treatment (see Table 4, col. 2, stages I-IV).	
Absolute cure rate <sup>2</sup>	

<sup>1</sup> For certain clinics conditions are such *e. g.*, when they are responsible for the treatment of almost every patient who seeks it from a defined area, that the treatment of almost every patient who seeks it from a defined area, that the calculation of an absolute cure rate has value for comparison with clinics similarly organised. When this is the case, the rate should be calculated as above. In other clinics the calculation may be omitted, the reason being given in a footnote to Table 2. In all clinics  $\Rightarrow$  Patients examined at the clinic but not treated  $\Rightarrow$  will be distributed, in Table 2, among the groups there set out. <sup>2</sup> I. e. the proportion the above number of patients alive without recurrence form of the total number or patients.

form of the total number examined, stated as a percentage.

- 20 -

#### Table 6.

#### Relative cure rate.

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I—IV)	Percentage <sup>1</sup>
Stage I			
Stage II			
Stage III			
Stage IV			
Stages I—IV			

<sup>1</sup> The cure rate calculated in this way obviously understates the results of treatment, since a proportion of patients will have died of a cause unrelated to cancer of the cervix, whilst the fate of a further proportion may be unknown.

S YEARS.	ervix uteri.	-19inclusive.		z	II Stage IV		The second secon		es 1-6 for a period			7.	Died from inter- current disease during a period of observation of	5 6 7 8 9 10 years
D IN PREVIOU	Jancer of the Co	nent for 19	4.	gically treated	stage II Stage I				on the bases of Tabl			6.	Lost sight of during a period of observation of	5 6 7 8 9 10 years
CASES TREATE	)	7.1 State		Radiolo	-IV Stage I S				illing to furnish data o	8.1 8.1	reatment.	5.	Died of cancer during a period of observ- ation of	5 6 7 8 9 10 years
LES USED FOI		Table	а. Г	tients ned but	reated <sup>2</sup> Stages I-				tich are able and wighten in Table 2.	Table	Results of th	4.	<sup>2</sup> Alive with recurrence after a period of observation of	5 6 7 8 9 10 years
INS OF THE TAB	itnte)	(onnot	2.	tal number of Particular Particul	th a view to not t treatment	attanta antista antista antista antista a			use of those clinics where the conditions gradient of the conditions gradient of the conditions gradient of the condition of			3.	Alive without recurrence after a period of observation of	5   6   7   8   9   10 years
3. SPECIME	(Tnat			Year Pat	M	19	19	etc.	<sup>1</sup> Intended for the prior to 1931. — <sup>2</sup> Ac			1. 2.	Year Leaded	col. 4)

<sup>1</sup> Intended for the use of those clinics which are able and willing to furnish data on the bases of Tables 1-6 for a period prior to 1931. — <sup>2</sup> To include patients alive operated upon after failure of radiotherapy.

etc. 19 19.

- 21 ---

I-IV.	11
Stages	
<b>9</b> <sup>1</sup> ,	• •
Cable	-

Evaluation of results.

6.	Relative cure rate <sup>4</sup> at the end of	5 6 7 8 8 10 years	
5.	Absolute cure rate <sup>3</sup> at the end of	5 6 7 8 9 10 years	
4.	Alive without recurrence after a period of observ- ation of <sup>2</sup> (see Table 8, col. 3)	5   6   7   8   9   10 years	
es.	Number of patients treated	(see lable (, col. 4)	
2.	Total number of patients examined with a view	to treatment (see Table 7, col. 2)	
1.	Year		19 19etc.

<sup>1</sup> Intended for the use of those clinics which are able and willing to furnish data on the bases of Tables 1-6 for a period prior to 1931. — <sup>2</sup> The number of cases in which microscopical verification was not obtained should be entered in brackets after the principal figures in col. 4. — <sup>2</sup> See Table 5, footnote 1. — <sup>4</sup> See Table 6.

# Table 10<sup>1</sup>, Stage I.

Evaluation of results.

ŧ	10		
o p			
erio	6		1 .
d t			1 .
er a			-
aftion	s r s		
vat	e a		1
e re oser	N N		
ol			
ve	9		
ati			
Rel	2		
of			
pc	1(		
erio			
a p	в		
er			
aft of	00		
nce	r s		
rrei	e a		1
ecu	1- ×.		1 1
t r			
hot	9		
wit			
ve			
Ali	10		
0			:
ent	i de la companya de l		
ati	00		
li	6 1		
er	able		
mb	L		
Nu	(sec		
			·
	Ţ		ei
Vo		19	19

<sup>1</sup> Intended for the use of those clinics which are able and willing to furnish data on the bases of Tables 1-6 for a period prior to 1931.

Note: Similar tables for stages II, III and IV.

- 22 -

# 4. DEFINITION OF THE DIFFERENT VARIETIES OF UTERO-VAGINAL CARCINOMA.

1. Cases should be reckoned as carcinoma of the vagina when the site of the growth is in the vagina; when clinical examination shows that the cervix is intact; and when there is no ground for supposing that the carcinoma is other than a primary growth in the vagina. In cases in which the carcinoma involves the cervix, the case must be regarded as one of carcinoma of the cervix.

It would, however, be advisable to classify as vaginal carcinoma those cases in which a small lesion previously noticeable on the cervix has rapidly disappeared after radiological treatment, while the main part of the tumour is still present in the vagina.

In those cases in which the cervix could not be examined at the beginning of the treatment, and therefore no decision could be made as to whether it was involved or not, the final diagnosis must be postponed until the situation has been clarified as a result of treatment. When, even after radiological treatment, no differentiation can be made, owing to the impossibility of examining the cervix, the case should be classified as cancer of the vagina if the cervix and parametria appear to be clinically free from growth on rectal examination.

2. Cases should be classified as carcinoma of the body when the site of the disease is in the body, whereas the cervix appears to be healthy.

The clinical distinction between carcinoma of the cervix and of the body of the uterus may offer difficulties in a small number of cases, such as the following:

(a) The uterus is not enlarged, and clinical examination does not give sufficient indications for determining the point of origin or the direction of spread of the growth.

In the majority of these cases it should be possible, without too great risk of error, to classify them on the basis of the microscopical report; for instance, pure squamous-celled carcinoma and adeno-carcinoma with mucous secretion are both types of cervical epithelioma.

In the remaining cases, which certainly form a very small fraction of the total in which it is not possible to make a definite classification on either clinical or microscopical evidence, the classification may be left to individual discretion.

(b) The cavity of the uterus is enlarged. It is not possible to determine by clinical examination whether the case is an endo-cervical carcinoma of the cervix with extension to the body or a carcinoma of the body extending to the cervix. Such cases generally spread like carcinoma of the body, and it is more of theoretical than of practical interest to ascertain the point of origin of the disease. They behave essentially as carcinoma of the body, and should be so classified unless the microscopical picture contra-indicates such a classification, as in the case of a pure squamous-celled carcinoma or an adeno-carcinoma with mucous secretion.

Cases presenting difficulty in diagnosis, owing to complications such as myomata, pyometra, etc., should be classified in the same manner.

Note: It is intended to revise, in the future, the definitions of the different varieties of utero-vaginal carcinoma.

## 5. DEFINITIONS OF THE FOUR STAGES OF CANCER OF THE CERVIX UTERI.

#### A. Definitions approved in 1929.

#### Stage I. ·

The growth is strictly limited to the cervix uteri. Uterus mobile.

Stage II.

Lesion spreading into one or more fornices, with or without infiltration of the parametrium adjacent to the uterus, the uterus retaining some degree of mobility.

Stage III.

(a) Nodular infiltration of the parametria on one or both sides extending to the wall of the pelvis, with limited mobility of the uterus or massive infiltration of one parametrium with fixation of the uterus.

(b) More or less superficial infiltration of a large part of the vagina, with a mobile uterus.

(c) Isolated metastases in the pelvic glands, with a relatively small primary growth.

(d) Isolated metastases in the lower part of the vagina.

Generally speaking, all cases not falling into Stages II or IV will be placed under Stage III.

#### Stage IV.

(a) Cases with massive infiltration of both parametria extending to the walls of the pelvis.

(b) Carcinoma involving the bladder or rectum.

(c) The whole vagina infiltrated (rigid vaginal passage), or one vaginal wall infiltrated along its whole length, with fixation of the primary growth.

(d) Remote metastases.

Note: Collaborators are requested to be good enough to use the definitions of 1937 (see page 26) for the grouping of cases treated in 1938 and consecutive years.

-25-

#### B. Definitions approved in 1937.

Stage I.

— The carcinoma is strictly confined to the cervix.

Stage II.

- The carcinoma infiltrates the parametrium on one or both sides, but has not invaded the pelvic wall. *Stage II*, *parametrium*.
- -- The carcinoma infiltrates the vagina, but does not involve its lower third. *Stage II, vagina*.
- Endocervical carcinoma which has spread to the corpus. *Stage II, corpus.*

Stage III.

- The carcinomatous infiltration of the parametrium has invaded the pelvic wall on one or both sides. On rectal examination no cancer-free space is found between the tumour and the pelvic wall. *Stage III, parametrium*.
- The carcinoma involves the lower third of the vagina. Stage III, vagina.
- Isolated carcinomatous metastases are palpable on the pelvic wall, (irrespective of the extent of the primary cervical growth). *Stage III, isolated pelvic metastases.*

Stage IV.

- The carcinoma involves the bladder as determined by cystoscopic examination or by the presence of a vesico-vaginal fistula. *Stage IV, bladder.*
- The carcinoma involves the rectum. Stage IV, rectum.
- The carcinoma has spread outside the true pelvis (below the vaginal inlet, above the pelvic brim, distant metastases). *Stage IV*, *distant spread*.

- 26 ---

#### General rules to be observed:

- When allocating a case to a stage, nothing but facts revealed by examination should be taken into account.
  The stage of each case should be decided at examination prior to treatment, and this classification should remain.
- The classification may be postponed quite exceptionally and the reasons stated.
- When it is doubtful to which stage a given case is to be allocated, the earlier stage should be chosen.
- The fact that a single case presents two or more of the conditions which characterise a particular stage does not affect the staging.

#### 6. STATEMENTS.

#### (a) MEMORIAL HOSPITAL FOR THE TREATMENT OF CANCER AND ALLIED DISEASES, NEW YORK, UNITED STATES OF AMERICA.

(Contributed by Dr. WILLIAM P. HEALY.)

#### CANCER OF THE CERVIX UTERI.

#### STATEMENT OF RESULTS OF TREATMENT IN 1931.

#### Table 1.

I.	Total number of patients examined with a view to treatment	137
II.	Of those:	
	1. Not treated (Total of cases comprised in Table 2)	1
	2. Radiologically treated (Total of cases included in Table 3)	136

#### Table 2.

Patients examined at the clinic but not treated.

(a) Prevented by disease or death from presenting themselve	es 0
(b) Seeking treatment elsewhere	. 0
(c) Not presenting themselves for unknown reasons	. 1
(d) Operation advised	. 0
(e) Not accepted owing to lack of accommodation or thera peutic facilities	. 0
(f) Treatment refused by the patient	. 0
(g) Treatment considered unsuitable owing to the patient general condition, to the extent of the disease or to othe complications	's er . 0
(h) Some other specified reason	0
Tota	al 1

#### Table 3.

Patients radiologically treated (Table 1, II, 2).

	Stages	Sta	ge I	Stag	ge II	Stag	e III	Stag	e IV
	I—IV	Number of cases	Per- centage						
Total number of patients treated.	136	17	12.5	15	11.0	74	54.4	30	22.1
With microscopical verification	135	17		15		74		29	
ical verification	1	0		0		0		11	

<sup>1</sup> This patient died before the five year observation period was over.

#### Table 4.

Results of treatment estimated after a period of observation of five years, dating from the beginning of treatment.

1	1.	2.	3.	4.	5.	6.	7.
Stage	Number of patients treated	Alive without recur- rence	Alive with recur- rence	Patients alive operated upon after failure of radio- therapy	Died of cancer	Lost sight of	Died of inter- current disease
I	17	9	0	0	8	0	0
II	15	7	0	0	8	0	0
III	74	14	0	0	56	2	2
IV	30	3	0	0	23	4	0
I—IV	136	33	0	0	95	6	2

#### Table 5.

#### Absolute cure rate.

Total number of cases (see Table 1, I)	137
Alive without recurrence five years after the beginning of treatment (see Table 4, col. 2, stages I-IV)	33
Absolute cure rate	24.1

#### Table 6.

#### Relative cure rate.

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I—IV)	Percentage
Stage I	17	9	52.9
Stage II	15	7	46.7
Stage III	74	14	18.9
Stage IV	30	3	10.0
Stages I—IV	136	33	24.3

Data from Memorial Hospital relating to the years previous to 1931 will appear in the Third Annual Report.

## (b) WOMAN'S HOSPITAL IN THE STATE OF NEW YORK, UNITED STATES OF AMERICA.

(Contributed by Dr. GEORGE G. WARD.)

#### CANCER OF THE CERVIX UTERI.

STATEMENT OF RESULTS OF TREATMENT IN 1931.\*

TTONAC T	T	a	b	le	1	
----------	---	---	---	----	---	--

I.	Total number of patients examined with a view to treatment	51
II.	Of those:	
	1. Not treated (Total of cases comprised in Table 2)	0
	2. Radiologically treated (Total of cases included in	
	Table 3)	51

#### Table 2.

Patients examined at the clinic but not treated.

(a)	Prevented by disease or death from presenting themselves	0
<i>(b)</i>	Seeking treatment elsewhere	0
(c)	Not presenting themselves for unknown reasons	0
(d)	Operation advised	0
(e)	Not accepted owing to lack of accommodation or thera- peutic facilities	0 .
(f)	Treatment refused by the patient	0
(g)	Treatment considered unsuitable owing to the patient's general condition, to the extent of the disease or to other	
	complications	0
(h)	Some other specified reason	0
	Total	0

\* The statistical year ends May 15, 1931.

#### Table 3.

#### Patients radiologically treated (Table 1, II, 2).

	Stages	Stag	ge I	Stag	e II	Stag	e III	Stag	e IV
	I—ÎV	Number of cases	Per- centage						
Total number of							07.0		
patients treated.	51	9	17.6	24	47.1	18	35.3	0	0.0
With microscopical									
verification	51	9		24		18		0	
Without microscop-	0	0		0		0		0	

#### Table 4.

Results of treatment estimated after a period of observation of five years, dating from the beginning of treatment.

	2.	3.	4.	6.	7.			
Stage	Number of patients treated	Alive without recur- rence	Alive with recur- rence	Patients alive operated upon after failure of radio- therapy	Died of cancer	Lost sight of	Died of inter- current disease	
Т	9	5	0	0	2	1	1	
II	24	6	2	0	15	0	1	
III	18	3	0	0	15	0	0	
IV	0	0	0	0	0	0	0	
I—IV 51		14	2	0	32	1	2	

#### Table 5.

#### Absolute cure rate.

Total number of cases (see Table 1, I)	51
Alive without recurrence five years after the beginning of treatment (see Table 4 col 2 stars I_IV)	14
treatment (see Table $\pm$ , coi. $\omega$ , stages $1-1\sqrt{2}$ ,	. 14
Absolute cure rate	27.5

#### Table 6.

Relative cure rate.

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I—IV)	Percentage		
Stage I	9	5			
Stage II	24	6	25.0		
Stage III	18	3	16.7		
Stage IV	0	0			
Stages I—IV	51	14	27.5		

3-382456

	1. Year		I cal	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	'Total
	2.	Total number of patients examined with a view to treatment		40	34	34	40	39	47	45	51	46	53	37	466
en	°°	Patients	not treated <sup>1</sup>	63	63	1	0	63	1	1	ŋ	60	0	1	18
		Stages I-IV	38	32	33	40	37	46	44	46	43	53	36	448	
		Radiologically treated	. Stage I	6	80	12	11	2	2	5	2	œ	00	9	88
	4.		Stage II	11	6	<b>x</b> 0	16	20	18	24	18	25	23	13	185
			Stage III	18	14	13	12	2	17	11	19	4	19	17	151
			Stage IV	0	1		1	භ	4	4	63	9	භ	0	24

STATEMENT FOR 1920-1930 INCLUSIVE.\*

Table 7.

<sup>1</sup> According to indications given in Table 2.

\* Each statistical year ends May 15th of that year.

Woman's Hospital in the State of New York

34
## Table 8.

Results of treatment.

1		1												
	er- se of	10	-	Ţ	Ţ	-	3	3	63					
	int int sea riod			1	Г	0	67	3	03	4				
2.	om t di pe	2 C		Н	-	0	3	3	-	4	03			
	l fr ren 1g a erv	7 y e	-	7	-	0	3	63	0	60	31	1		
	Died curi urir obs					0	03	1	0	03	03	Ţ	60	
	I p	5		0	1	0	62	1	0	03		Т	03	11
	fof	10	4	Ч	33	0	3	Η	Η					
	t of riod		4	-	03	0	3	-	Τ	-				
6.	pelatio	2 L	4	Ч	3	0	00	Ţ		-	C/3			
	st s g a ervi	y e	4	-	33	0	60	Ţ	Η	Η	63	-		
	Lo Irin obs	9	60		C.S	0	60	-	Ţ	1	25		0	
_	qı	10	3	1	03	0	3	0	1	1	-	0	0	12
	ing V-	10	28	22	25	30	25	35	34					
	dur bser	6	28	22	24	29	25	35	34	35				
	t o. f o.	N 00	28	55	24	29	25	35	34	32	50			
5	can d o tior	e a -1	00	33	4	62	52	22	34	62	00	8		
	of erio a	- 9 V		63	4	6	10	20	4	612	00	00	0	
	a p		00	23	50	5 2	4 2	5	5	3 5 7 5	00 02	60 00	9 2	- 9
_	<u> </u>			67	02	6.3	62	00 -	ං -	3	03	60	-	30
	of	10		0		-	0	-	0					
	vith nce iod	- 8 - 8		0	51	0		0	0	0	_			-
4.	e v rrei per atic	. 8 a r		0	6.1	0	0	0	0	0	0			
	Aliv ecu r a serv	y e	0	0		0	0	0	0	0		1		
	I I obs	-							~	-	0	0		-
		2		-		4.	-	-						0,
	Ĵ.	10	10	00	4	5	9	~	~		_			
	out ce od c	6	2	00	4	11	9	2	~	6				
	vith rent eric tion	8 I I S	10	00	4	11	9	2	00	6	11			
30	e v curi a p rva	7   e a	5 L	00	'n	11	9	30	0	10	11	12		
	Aliv re ter	6   y	9	x	10	11	2	6	6	11	11	13	3	
	aft	5	9	6	9	-	~	0	6	T	3	4	4	0
_	844							-			-		H	11
	t of ts													
2.	tien	l. 4	38	32	33	40	37	46	44	46	43	53	36	48
	pai pai	00								4.	4.			4
	4	2												
	ear		20	21	22	23	24	25	26	27	58	29	30	tal
	Ye		19	19	19	19	19	19	19	19	19	19	19	T

<sup>1</sup> Including patients alive operated upon after failure of radiotherapy.

n-			-	-			-	-	-					
		10	13.2	25.0	12.1	22.5	16.2	15.2	15.9					
	at	6	3.2	5.0	2.1	2.5	6.2	5.2	5.9	9.6	-			
	of	- 00	2 1	0 2	11	5 2	1 2	2 1	2 1	.6 1	9.		-	
	nd	a r	13.	25.	12	27.	16	15	18	19	25			
	e ci le e	2 G	13.2	25.0	15.2	27.5	16.2	17.4	20.5	21.7	25.6	22.6		
	tl	9	5.8	5.0	5.2	2.75	8.8	9.6	0.5	3.9	5.6	34.5	36.1	
	Re	-	8	1 2	2 1	5 2	9 1	1 1	5 2	9 2	62	4 2	6.	9.
1_		10	15.	28	18	27	18	21	20	23	30	26	38	24
		10	12.5	23.5	11.8	22.5	15.4	14.9	15.6					
	e at	6	2.5	3.5	1.8	2.5	5.4	4.9	5.6	9.2			_	-
	of		5 1	5 2	.8 1	5 2	.4 1	.9 1	.8 1	.6 1	0.		-	-
5.	end	a 1	12	23	11	27	15	14	17	3 17	24	-0		
	he of	7 y e	12.5	23.5	14.7	27.5	15.4	17.0	20.0	19.6	24.(	22.6		
	t	9	5.0	33.5	14.7	6.75	6.71	1.61	20.0	21.6	24.0	24.5	35.1	
	Al	-	0.0	2 0.0	1.6 1	2 6.7	1 6.1	1.3 ]	0.0	.6 9.1	3.3 %	3.4 %	1.8	3.6
-	-		15	26	11	22	1	2	2(	62	28	26	00	61
	nce rv-	10	10	8	4	6	9	2	2					
	irrei bsei ble {	6	2	8	4	11	9	1	2	6				
	recu of c Tal	8   r s	2	00	4	11	9	2	8	6	11			
4	out iod (see	- a		0	.0	-	.0	00	0	0	-	3	-	-
	with per of c	y 6				1	-			1	-	H		
	ve ve sr a tion	9	9	8	2	11	2	6	6	11	11	13	13	
	Ali afte ai	2	9	6	9	11	2	10	6	11	13	14	14	110
-	0 1			-	-			-	-		-	-	_	
	ber ed	4)							_					~
60	Num pati treat	col.	38	32	33	40	37	46	44	46	48	55	36	448
	of	(see												
	ber ts d	nt 7,												
	tient tient tine	utme able 2)	0	4	4	0	6	2	20	-	9	3	2	9
G	al r par man xan th a	e Ta col.	4	3	679	4	3	4	4	10	4	50	00	46
	Tot of e wit	to (see												
-			0	1	63	3	4	10	9	2	8	6	0	al
-	Tear		1920	192	192	192	192	192	192	192	192	192	193	Tot
	-													

Table 9, Stages I-IV.

Evaluation of results.

36

Woman's Hospital in the State of New York

-
00 00
Sta
0,
Ŧ
Ie
ala
E

Evaluation of results.

Vann	Number of patients	Alive.	without	recurre	ince afte tion of	r a per	iod of	Relati	ve cure obs	rate aft ervation	er a p 1 of	eriod	of
TCOL	(see Table 7, col. 4)	5	6	2	30	6	10	5	9	7 8	-	6	10
				y e a	I L S	-			y	rears	S		
1920	6	3	63	53	60	3	ŝ				_		
1921	8	9	5	5	5	0	5						
1922	12	5	4	4	3	3	3						
1923	11	9	9	9	9	9	9						
1924	7	2	63	63	63	63	52						
1925	7	4	3	52	53	63	67						
1926	5	Ŧ	4	4	00	63	5						
1927	2	1	1	1	1	1							
1928	8	9	9	9	9						_		
1929	8	5	4	4								T	
1930	9	5	4					_				•	
Total	88	47						53.4					

Year	Number of patients treated in stage II	Alive v	vithout	recurre observa	nce afte tion of	r a per	iod of	Rela	tive cu	re rate observa	after a tion of	a period	lof
	(see Table 7, col. 4)	5	9	1.	x	6	10	5	9	2	8	6	10
				y e	ars					y e a	I I S		
1920	11	1	1	1	-	1	H						
1921	6	62	\$	67	c3	62	2						
1922	30	Г	1	1	1	1	1						
1923	16	60	cQ	63	63	ಣ	63	18.8	18.8	18.8	18.8	18.8	12.5
1924	20	4	4	4	4	4	4	20.0	20.0	20.0	20.0	20.0	20.0
1925	18	9	9	9	2	5	5	33.3	33.3	33.3	27.8	27.8	27.8
1926	24	4	t.	4	4	4	4	16.7	16.7	16.7	167	16.7	16.7
1927	18	9	9	5	5	5		33.3	33.3	27.8	27.8	27.8	
1928	25	2	5	5	ĩ.			28.0	20.0	20.0	20.0		
1929	23	9	9	9		-		26.1	26.1	26.1			
1930	13	9	9										
Total	185	16						6 76					

Table 10, Stage II.

Evaluation of results.

38

Woman's Hospital in the State of New York

# Table 10, Stage III.

Evaluation of results.

Vear	Number of patients treated in stage III	Alive .	without	recurre observa	nce afte tion of	r a peri	iod of	Rels	ative cu	ure rate observa	after a tion of	1 period	l of
	(see Table 7, col. 4)	2	9	2	00	6	10	2	9	1	8	6	10
				y e a	I T S					y e a	IIS		
1920	18	5	53	1	1	1	1	1.11	11.1	5.6	5.6	5.6	5
1921	14	1	1	1	1	1	1						
1922	13	0	0	0	0	0	0						
1923	12	2	53	\$2	62	52	1						
1924	7	1	1	0	0	0	0						
1925	17	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.
1926	11	1	1	1	1	1	1						
1927	19	4	4	4	3	3		21.1	21.1	21.1	15.8	15.8	
1928	4	0	0	0	0								
1929	19	33	3	\$				15.8	15.8	10.5			
1930	17	3	3					17.6	17.6				
Total	151	17				-		11.3					

#### Woman's Hospital in the State of New York

1V
Stage
10,
Lable

Evaluation of results.

	d of	1(													
	perio	6													
	ter a 1 of	00	S												
	te af vation	_	a r												
	re ra	2	y e												
	ve cu	9													
	Relati	-													0
															0.0
	od of	10		0	0	0	0	0	0	0					
	peric	6		0	0	0	0	0	0	0	0				
	ter a														
	ice af	00	r s	0	0	0	0	0	0	0	0	0			
	serval	2	y e a	0	0	0	0	0	0	0	0	0	0		
	ut ree ob														
1	withou	9		0	0	0	0	0	0	0	0	0	0	0	
	live v	2		0	0	0	0	0	0	0	0	0	0	0	0
	A														
	utient ge IV	col. 4													
	of pe n sta	6 7,		0	1	0	1	ങ	4	4	50	9	63	0	24
	uber ted in	Tabl													
	Num	(see													
															otal
	ear			320	)21	322	323	924	325	926	327	928	929	930	E
	Y	(		16	19	19	16	16	16	16	1.	16	1	1	

40

Woman's Hospital in the State of New York

#### (c) The Centre des Tumeurs de l'Université de Bruxelles, Belgium.

(Contributed by Prof. J. MURDOCH.)

#### CANCER OF THE CERVIX UTERI.

STATEMENT OF RESULTS OF TREATMENT IN 1931.

#### Table 1.

I.	Total number of patients examined with a view to treatment	73
II.	Of those:	
	1. Not treated (Total of cases comprised in Table 2)	10
	2. Radiologically treated (Total of cases included in	
	Table 3)	63

#### Table 2.

Patients examined at the clinic but not treated.

(a) Prevented by disease or death from presenting themselves	3
(b) Seeking treatment elsewhere	1
(c) Not presenting themselves for unknown reasons	0
(d) Operation advised	0
(e) Not accepted owing to lack of accommodation or thera- peutic facilities	0
(f) Treatment refused by the patient	6
(g) Treatment considered unsuitable owing to the patient's general condition, to the extent of the disease or to other complications	0
(h) Some other specified reason	0
Total	10

#### Table 3.

Patients radiologically treated (Table 1, II, 2).

	Stages	Sta	ge I	Stag	e II	Stag	e III	Stag	e IV
	I—ĬV	Number of cases	Per- centage						
Total number of patients treated.	63	6	9.5	20	31.7	28	44.4	9	14.3
With microscopical verification	58	5		20		26		7	
Without microscop- ical verification	51	1		0		2		2	

<sup>1</sup> These five patients died before the end of the five year period.

#### Table 4.

Results of treatment estimated after a period of observation of five years, dating from the beginning of treatment.

	1.	2.	3.	4.	5.	6.	7.
Stage	Number of patients treated	Alive without recur- rence	Alive with recur- rence	Patients alive operated upon after failure of radio- therapy	Died of cancer	Lost sight of	Died of inter- current disease
I	6	2	0	0	3	0	1
II	20	8	0	0	11	0	1
III	28	4	0	0	23	0	1
IV	9	0	0	0	9	0	0
I—IV	63	14	0	0	46	0	3

#### Table 5.

Absolute cure rate.

Total number of cases (see Table 1, I)	73
Alive without recurrence five years after the beginning of treatment (see Table 4, col. 2, stages I-IV)	14
Absolute cure rate	19.2 %

#### Table 6.

Relative cure rate.

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I—IV)	Percentage
Stage I	6	2	
Stage II	20	8	40.0
Stage III	28	4	14.3
Stage IV	9	0	
Stages I—IV	63	14	22.2

E
P
$\overline{\mathbf{u}}$
P
B
×
Ξ
$\sim$
š
0
-
0
10
6
7-4
~2
E
Ĥ
<b>.</b> .
E
A
Ę.
E
E
Y
H
UL

L.
0
1000
2
3
H

4.		Stage IV	80	2	ŝ	3	12	38
	ited	Stage III	23	19	21	39	35	137
	Radiologically tree	Stage II	15	13	18	11	27	84
		Stage I	14	11	20	20	6	74
		Stages I—IV	60	50	68 2	74 2	83	335
3.	Patients evamined but	not treated <sup>1</sup>	15	6	80	9	11	49
2.	Total number of patients examined	with a view to treatment	75	59	76	80	94	384
1.	Voor	1926	1927	1928	1929	1930	Total	
1. 2.	Total number of patients examined	with a view to n treatment	1926 75	1927 59	1928 76	1929 80	1930 94	Total 384

<sup>1</sup> According to indications given in Table 2. -<sup>2</sup> One case not classified because of insufficient clinical information is included in Tables 7, 8 and 9. As the patient died before the end of the five-year period, the case will not appear in Table 10.

## Table 8.

Results of treatment.

44

The Centre des Tumeurs de l'Université de Bruxelles

<sup>1</sup> Including patients alive operated upon after failure of radiotherapy.

Table 9, Stages I-IV.

Evaluation of results.

	10	16.7	eipal
	9	24.0	prin
	nd of 8	18.3 24.0 19.1	r the
9	ve eu the ei y e a	25.0 26.0 19.1 25.7 25.7	s afte
	Relati	26.7 28.0 28.0 20.6 27.0 15.7	ackets
	2 I	26.7 28.0 25.0 28.4 28.4 16.9 28.4 24.5	n bra
	at 10	13.3	ered i
	fate a	20.3	s ente
5.	end o a r s	14.7 20.3 17.1	i bət
	the ethe ethe ethe ethe ethe ethe ethe	22.0 22.0 17.1 23.8	btair
	Absol	21.3 23.7 23.7 25.0 25.0 13.8	not c
	20	21.3 23.7 23.4 22.4 26.3 26.3 26.3 26.3 21.4 21.4	was
	anee srv- 8, 10	10(1)	ion
	eurre obse 'able	12	ificat
4.	ut re od of see T . 3) . 3) a r s	11(1)	ver
	vitho perio of <sup>1</sup> ( col y e	) 15(1 13 13 13 19	pieal
	tive v ter a tion 6	) 16(1 14 14 20 20 13	erosec
	A af	16(1           14           17           17           17           17           82	n mie
	ber ents ed ble 7, 4)		whief
33.	Num pati treat treat eol.	60 50 68 68 83 83 335	in
_	of of t (see		eases
	umbe ients ined view tmen ble 7 2)		of.
2	tal n of pat exam ith a trea col.	75 55 76 80 84 84 84 88	mber mn 4
	To oot (see		eolu
1.	ear	1926 1927 1928 1929 930 930	<sup>1</sup> The
	7		figur

The Centre des Tumeurs de l'Université de Bruxelles 45

	of	10									f	10	1	0.0							
	riod c										riod o	-		0.0				_			
	r a pe of	6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6		) 20		~													
	e aften ation	a r s			30.(						e aften ation	× ×	9 1 9	20.0		27.8					
	re rate	7 ye		30.0		30.0		30.0 55.0						re rate	re rate observa 7 y e	y c	40.0		27.8		
	ive cu	9			30.0	60.09					ive cu	9		40.0		27.8		11.1			
	Relat	5			30.0	65.0		47.3			Relat	0		40.0		27.8		11.1	25.0		
	lo bo	10	ũ								jo po	10		3	_						
.eiin	a perio	9	10	9					H	ulls.	a perio	6		60	5						
ent la	ice after ion of	8 I S	D1	9	9				Ctowo	of res	ice after ion of	8	2 1	3	5	5			-		
mainai	recurren bservat	7 y e a	9	9	9	11			10.10	luation	recurrer	1 2	y e a	9	5	5	63		_		
That	ithout	9	9	9	9	12	3		1 of The	Eva	rithout	9		9	5	5	67	3			
	Alive w	5	9	9	9	13	4	35	-		Alive w	5		9	5	5	2	3	21		
	umber of patients	e Table 7, col. 4)	14	11	20	20	9	74			umber of patients	the Table 7, col. 4)		15	13	18	11	27	84		
	Vear 11	(se	1926	1927	1928	1929	1930	Total	-		Voar tr	(se	_	1926	1927	1928	1929	1930	Total		
																			_		

Table 10, Stage I. Evaluation of results.

46

#### The Centre des Tumeurs de l'Université de Bruxelles

	1																
	10	8							of	10							
	6	x 7	5.3						perioc	6							
bservation of	observation of	8 1 I S	13.0	5.3	9.5					after a ion of	8 I 8						
		7 V e 8	13.0	10.5	9.5	15.4				re rate bservat	V e a	,					
	9	17.4	15.8	14.3	15.4	20.0			tive cui o	9							
	φ	17.4	15.8	28.6	15.4	20.0	19.0		Relat	5						0.0	
	10	67							od of	10	0						
	6	~	1					IV.	r a peri	6	0	0					
tion of	8 I T S	60	1	62				, Stago n of re	nce after tion of	r s	0	0	0				
observa	7 e 3	00	67	63	9			le 10, luation	recurre	7 Vea	0	0	0	0			
	9	4	00	<del>ന</del>	9	2		Tab Eva	vithout	9	0	0	0	0	0		
	5	4	63	9	9	7	26		Alive v	Ð	0	0	0	0	0	0	
treated in stage III	(see Table 7, col. 4)	23	19	21	39	35	137		Number of patients treated in stage IV	(see Table 7, col. 4)	x	7	œ	3	12	38	
Year		1926	1927	1928	1929	1930	Total		Year		1926	1927	1928	1929	1930	Total	
A ANAMANA A A ANAMANA A A A A A A A A A	Year treated in stage III ODSERVATION OF ODSERVATION OF	Yeartreated in stage IIIobservation of observation ofobservation of $5   6   7   8   9   10$ observation of $5   6   7   8   9   10$ (see Table 7, col. 4) $5   6   7   8   9   10$ $5   6   7   8   9   10$	Year     treated in stage III     observation of     observation of       (see Table 7, col. 4)     5     6     7     8     9     10       1926     23     4     4     3     3     2     2     17.4     17.4     13.0     13.0     8.7     8.7	Year         treated in stage III         Observation of conservation of y e a r s         Observation of y e a r s         Observat s         Observation of y e a r s <td>Year         treated in stage III         (see Table 7, col. 4)         <math>5</math> <math>6</math> <math>7</math> <math>8</math> <math>9</math> <math>10</math> <math>5</math> <math>6</math> <math>7</math> <math>8</math> <math>9</math> <math>10</math>           1926         23         4         4         3         3         2         2         <math>17.4</math> <math>13.0</math> <math>13.0</math> <math>8.7</math> <math>8.7</math>           1926         23         4         4         3         3         2         2         <math>17.4</math> <math>13.0</math> <math>13.0</math> <math>8.7</math> <math>8.7</math>           1927         19         3         3         2         1         1         <math>15.8</math> <math>10.5</math> <math>5.3</math> <math>5.3</math> <math>8.7</math>           1928         21         6         3         2         2         2         <math>14.3</math> <math>9.5</math> <math>9.5</math> <math>9.5</math></td> <td>Year         treated in stage III          <math>5</math> <math>6</math> <math>7</math> <math>8</math> <math>9</math> <math>10</math> <math>5</math> <math>6</math> <math>7</math> <math>8</math> <math>9</math> <math>10</math>           1926         23         4         4         3         3         2         2         17.4         13.0         13.0         <math>8.7</math> <math>8.7</math>           1926         23         4         4         3         3         2         2         17.4         13.0         13.0         <math>8.7</math> <math>8.7</math>           1927         19         3         3         2         1         1         1         15.8         15.8         10.5         5.3         5.3         5.3           1928         21         6</td> <td>Yeartreated in stage IIIODSErVALION OI(see Table 7, col. 4)<math>5</math><math>6</math><math>7</math><math>8</math><math>9</math><math>10</math><math>5</math><math>6</math><math>7</math><math>8</math><math>9</math><math>10</math>1926<math>23</math><math>4</math><math>4</math><math>3</math><math>3</math><math>3</math><math>2</math><math>2</math><math>17.4</math><math>13.0</math><math>13.0</math><math>8.7</math><math>8.7</math>1927<math>19</math><math>3</math><math>3</math><math>2</math><math>1</math><math>1</math><math>1</math><math>15.8</math><math>13.0</math><math>8.7</math><math>8.7</math>1928<math>231</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>14.3</math><math>9.5</math><math>9.5</math><math>5.3</math><math>5.3</math>1929<math>39</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>6</math><math>9.5</math><math>9.5</math><math>9.5</math><math>9.5</math><math>9.5</math>1929<math>33</math><math>7</math><math>7</math><math>7</math><math>7</math><math>7</math><math>7</math><math>20.0</math><math>20.0</math><math>9.5</math><math>9.5</math><math>9.5</math></td> <td>Year         treated in stage III          <math>5</math> <math>6</math> <math>7</math> <math>8</math> <math>9</math> <math>10</math> <math>5</math> <math>6</math> <math>7</math> <math>8</math> <math>9</math> <math>10</math>           1926         23         4         4         3         3         2         2         <math>17.4</math> <math>17.4</math> <math>13.0</math> <math>8.7</math> <math>8.7</math>           1926         23         3         3         2         1         1         1         <math>16.7</math> <math>8.7</math> <math>8.7</math>           1927         19         3         3         2         1         1         <math>16.8</math> <math>15.8</math> <math>10.5</math> <math>5.3</math> <math>5.3</math> <math>8.7</math>           1928         21         6         6         6         <math>6</math> <math>9.5</math> <math>9.5</math><!--</td--><td>Yeartreated in stage IIIODSERVATION Of ODSERVATION OfODSERVATION Of ODSERVATION Of192628191056789101926281919332111878719271933211111887871927193321111181308787192821666611111111871929396666111111111193035777221111111193035777999.59.59.59.59.519301372611111111177721111111119301372611111111119301372611111111119301372611111111119301372611</td><td>Year         treated in stage III         Observation of (see Table 7, col. 4)         Observation of y e a r s         Observation of r s         Observation of r s</td><td>Year         treated in stage III         ODSErvation of (see Table 7, col. 4)         5         6         7         8         9         10           1926         23         4         4         3         3         2         2         17.4         13.0         8.7         8.7           1927         19         3         3         2         1         1         1         8.6         7         8         9         10           1927         19         3         3         2         1         1         1         1         8.7         8.7         8.7         8.7           1928         21         6         6         6         6         1</td><td>Year         treated in stage III         ODSERVATION Of y e a r S         OD         OD</td><td>Year         treated in stage III         ODSERVATION Of (see Table 7, col. 4)         0         ODSERVATION Of 7         OD         OD</td><td>Year         Freated in stage III         OUSERVATION Of years         OUSERVATS         OUSERVATS         OUSERVAT</td><td>Year         tradied in stage III         conservation of a conservation of y c a s         result           1990         Y</td><td>Yeur         treated in stage III         moservation of y e ar s         moservater ar s         mo</td></td>	Year         treated in stage III         (see Table 7, col. 4) $5$ $6$ $7$ $8$ $9$ $10$ $5$ $6$ $7$ $8$ $9$ $10$ 1926         23         4         4         3         3         2         2 $17.4$ $13.0$ $13.0$ $8.7$ $8.7$ 1926         23         4         4         3         3         2         2 $17.4$ $13.0$ $13.0$ $8.7$ $8.7$ 1927         19         3         3         2         1         1 $15.8$ $10.5$ $5.3$ $5.3$ $8.7$ 1928         21         6         3         2         2         2 $14.3$ $9.5$ $9.5$ $9.5$	Year         treated in stage III $5$ $6$ $7$ $8$ $9$ $10$ $5$ $6$ $7$ $8$ $9$ $10$ 1926         23         4         4         3         3         2         2         17.4         13.0         13.0 $8.7$ $8.7$ 1926         23         4         4         3         3         2         2         17.4         13.0         13.0 $8.7$ $8.7$ 1927         19         3         3         2         1         1         1         15.8         15.8         10.5         5.3         5.3         5.3           1928         21         6	Yeartreated in stage IIIODSErVALION OI(see Table 7, col. 4) $5$ $6$ $7$ $8$ $9$ $10$ $5$ $6$ $7$ $8$ $9$ $10$ 1926 $23$ $4$ $4$ $3$ $3$ $3$ $2$ $2$ $17.4$ $13.0$ $13.0$ $8.7$ $8.7$ 1927 $19$ $3$ $3$ $2$ $1$ $1$ $1$ $15.8$ $13.0$ $8.7$ $8.7$ 1928 $231$ $6$ $6$ $6$ $6$ $6$ $6$ $14.3$ $9.5$ $9.5$ $5.3$ $5.3$ 1929 $39$ $6$ $9.5$ $9.5$ $9.5$ $9.5$ $9.5$ 1929 $33$ $7$ $7$ $7$ $7$ $7$ $7$ $20.0$ $20.0$ $9.5$ $9.5$ $9.5$	Year         treated in stage III $5$ $6$ $7$ $8$ $9$ $10$ $5$ $6$ $7$ $8$ $9$ $10$ 1926         23         4         4         3         3         2         2 $17.4$ $17.4$ $13.0$ $8.7$ $8.7$ 1926         23         3         3         2         1         1         1 $16.7$ $8.7$ $8.7$ 1927         19         3         3         2         1         1 $16.8$ $15.8$ $10.5$ $5.3$ $5.3$ $8.7$ 1928         21         6         6         6 $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $9.5$ </td <td>Yeartreated in stage IIIODSERVATION Of ODSERVATION OfODSERVATION Of ODSERVATION Of192628191056789101926281919332111878719271933211111887871927193321111181308787192821666611111111871929396666111111111193035777221111111193035777999.59.59.59.59.519301372611111111177721111111119301372611111111119301372611111111119301372611111111119301372611</td> <td>Year         treated in stage III         Observation of (see Table 7, col. 4)         Observation of y e a r s         Observation of r s         Observation of r s</td> <td>Year         treated in stage III         ODSErvation of (see Table 7, col. 4)         5         6         7         8         9         10           1926         23         4         4         3         3         2         2         17.4         13.0         8.7         8.7           1927         19         3         3         2         1         1         1         8.6         7         8         9         10           1927         19         3         3         2         1         1         1         1         8.7         8.7         8.7         8.7           1928         21         6         6         6         6         1</td> <td>Year         treated in stage III         ODSERVATION Of y e a r S         OD         OD</td> <td>Year         treated in stage III         ODSERVATION Of (see Table 7, col. 4)         0         ODSERVATION Of 7         OD         OD</td> <td>Year         Freated in stage III         OUSERVATION Of years         OUSERVATS         OUSERVATS         OUSERVAT</td> <td>Year         tradied in stage III         conservation of a conservation of y c a s         result           1990         Y</td> <td>Yeur         treated in stage III         moservation of y e ar s         moservater ar s         mo</td>	Yeartreated in stage IIIODSERVATION Of ODSERVATION OfODSERVATION Of ODSERVATION Of192628191056789101926281919332111878719271933211111887871927193321111181308787192821666611111111871929396666111111111193035777221111111193035777999.59.59.59.59.519301372611111111177721111111119301372611111111119301372611111111119301372611111111119301372611	Year         treated in stage III         Observation of (see Table 7, col. 4)         Observation of y e a r s         Observation of r s         Observation of r s	Year         treated in stage III         ODSErvation of (see Table 7, col. 4)         5         6         7         8         9         10           1926         23         4         4         3         3         2         2         17.4         13.0         8.7         8.7           1927         19         3         3         2         1         1         1         8.6         7         8         9         10           1927         19         3         3         2         1         1         1         1         8.7         8.7         8.7         8.7           1928         21         6         6         6         6         1	Year         treated in stage III         ODSERVATION Of y e a r S         OD         OD	Year         treated in stage III         ODSERVATION Of (see Table 7, col. 4)         0         ODSERVATION Of 7         OD         OD	Year         Freated in stage III         OUSERVATION Of years         OUSERVATS         OUSERVATS         OUSERVAT	Year         tradied in stage III         conservation of a conservation of y c a s         result           1990         Y	Yeur         treated in stage III         moservation of y e ar s         moservater ar s         mo	

The Centre des Tumeurs de l'Université de Bruxelles

Table 10, Stage III.Evaluation of results.

47

#### (d) The Liverpool Radium Institute, United Kingdom of Great Britain and Northern Ireland.

(Contributed by Dr. P. MALPAS.)

#### CANCER OF THE CERVIX UTERI.

STATEMENT OF RESULTS OF TREATMENT IN 1931.

#### Table 1.

I.	Total number of patients examined with a view to treatment	94
II.	Of those:	
	1. Not treated (Total of cases comprised in Table 2)	0
	2. Radiologically treated (Total of cases included in Table 3)	94

#### Table 2.

Patients examined at the clinic but not treated.

( <i>a</i> )	Prevented by disease or death from presenting themselves	0
<i>(b)</i>	Seeking treatment elsewhere	0
(c)	Not presenting themselves for unknown reasons	0
(d)	Operation advised	0
( <i>e</i> )	Not accepted owing to lack of accommodation or thera- peutic facilities	0
(f)	Treatment refused by the patient	0
(g)	Treatment considered unsuitable owing to the patient's general condition, to the extent of the disease or to	
	other complications	0
( <i>h</i> )	Some other specified reason	0
	Total	0

#### Table 3.

#### Stage II Stage I Stage III Stage IV Stages I-IV Number Per-Per-Number Per-Number Number Perof cases centage of cases centage of cases centage of cases centage Total number of patients treated 94 8 8.5 2829.843 45.715 16.0With microscopical verification .... 87 8 27 41 11 Without microscop-4 8 7 11 2 2 ical verification

#### Patients radiologically treated (Table 1, II, 2).

<sup>1</sup> No 203. Malignant ulcer destroying the posterior lip of cervix and extending on to the posterior fornix. Mobility of the uterus limited. Ulcer friable and bleeds on examination. Clinical diagnosis confirmed by Dr. A. A. Gemmell and Mr. Malpas. Pathological report lost.

 $^2$  No 242. Cauliflower growth springing from the anterior lip of cervix and the uterus completely fixed. Glands to be felt along right brim of pelvis. Both parametria show diffuse infiltration not extending out to the lateral pelvic wall. Pathological report has been lost.

No 223. Malignant ulcer with irregular bossed edges replacing vaginal cervix and extending on to the posterior vaginal wall for 3 cms. The uterus is completely fixed. There was an isolated superficial malignant ulcer  $1 \text{ cm.} \times \frac{1}{4} \text{ cm.}$ situated on the middle of the anterior vaginal wall. Both parametria presented an ill-defined diffuse injection. Pathological report has been mislaid.

<sup>3</sup> These four patients died before the end of the five year period.

#### Table 4.

	1.	2.	3.	4.	5.	6.	7.	
Stage	Number of patients treated	Alive without recur- rence	Alive with recur- rence	Patients alive operated upon after failure of radio- therapy	Died of cancer	Lost sight of	Died of inter- current disease	
I	8	5	0	0	2	0	1	
II	28	7	1	0	18	2	0	
III	43	6	0	0	37	0	0	
IV	15	0	0	0	15	0	0	
I—IV	94	18	1	0	72	2	1	

Results of treatment estimated after a period of observation of five years, dating from the beginning of treatment.

4-382456

#### Table 5.

#### Absolute cure rate.

Note.—Calculation of absolute cure rate omitted because the clinic was not solely responsible for the treatment of cervical carcinoma in the area, which was not a homogeneous unit from the standpoint of hospital administrative arrangements.

#### Table 6.

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I—IV)	Percentage
Stage I	8	5	
Stage II	28	7	25.0
Stage III	43	6	14.0
Stage IV	15	0	0.0
Stages I-IV	94	18	19.1

#### Relative cure rate.

Table 7.	1. 2. 3. 4.	Total number of patients examinedPatientsRadiologically treatedVearpatients examined but examined butPatients	with a view to not treated <sup>1</sup> Stages I–IV Stage I Stage II Stage III Stage IV	1929         36         2         34         0         17         11         6	1930         92         3         89         13         26         29         21	Total         128         5         123         13         43         40         27	<sup>1</sup> According to indications given in Table 2. Table 8. Results of treatment.	1. 2. 3. 4. 5. 6. 7.	Number of patientsAlive and free from disease after a period <sup>1</sup> Alive with Died of cancer duringDied of from inter- treated of a period of observation ofDied from inter- 	(see Table ', 5   6   7   8   9   10       5   6   7   8   9   10       5   6   7   8   9   10       5   6   7   8   9   10         col. 4)       years       years       years       years       years	1929         34         8         8         8         8         8         0 <th>1930         89         25         24         2         2         3         3</th> <th>Trifol 193 33 9 9 80 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</th> <th>1.         1.           Year         P           1929         1929           1929         P           1.         According to           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         3.4           1930         89           Total         193</th> <th>2.Total number of attents examined with a view to <math>128</math>36 9236 9236 92128 128128 128138 of observation7 <math>38</math>8 88 388 388 38</th> <th><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></th> <th>Table 7.       Stages I-IV       Stages I-IV       34       34       39       123       124       125       125       124       125       125       125       126       128       129</th> <th>Radiol Stage I 13 13 13 13 13 13 13 13 13 13 13 13 13</th> <th>4. ogically tree Stage II 17 26 43 43 43 6 17 5 6 during a 1 observat observat 4</th> <th>ated ated Stage III 11 29 40 40 10 29 00 00 10 10 29 29 29 29 29 20 29 29 20 29 20 29 20 29 20 20 20 20 20 20 20 20 20 20</th> <th>Stage IV 6 21 27 27 7. 7. 1 from inter- rent disease is a period of s r 8 9 10 y e a r s 9 0 0 1</th>	1930         89         25         24         2         2         3         3	Trifol 193 33 9 9 80 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1.         1.           Year         P           1929         1929           1929         P           1.         According to           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         2.           1.         3.4           1930         89           Total         193	2.Total number of attents examined with a view to $128$ 36 9236 9236 92128 128128 128138 of observation7 $38$ 8 88 388 388 38	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Table 7.       Stages I-IV       Stages I-IV       34       34       39       123       124       125       125       124       125       125       125       126       128       129	Radiol Stage I 13 13 13 13 13 13 13 13 13 13 13 13 13	4. ogically tree Stage II 17 26 43 43 43 6 17 5 6 during a 1 observat observat 4	ated ated Stage III 11 29 40 40 10 29 00 00 10 10 29 29 29 29 29 20 29 29 20 29 20 29 20 29 20 20 20 20 20 20 20 20 20 20	Stage IV 6 21 27 27 7. 7. 1 from inter- rent disease is a period of s r 8 9 10 y e a r s 9 0 0 1
----------	-------------	---	---	--	--	---	--	----------------------	---	---	---	---	--	--	---	--	---	---	---	---	--

STATEMENT FOR 1929-1930 INCLUSIVE.

82 <sup>1</sup> Including patients alive operated upon after failure of radiotherapy. 2 Total 123 33

The Liverpool Radium Institute

6.	Relative cure rate at the end of b 6 7 8 9 10	y e a r s	23.5 23.5 23.5 28.1 27.0	26.8
5.	Absolute cure rate at the end of 5 6 7 8 9 10	years		
म् •	Alive without recurrence after a period of observ- ation of (see Table 8, col. 3) $5 \mid 6 \mid 7 \mid 8 \mid 9 \mid 10$	years	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	33
3.	Number of patients treated (see Table 7, col. 4)		3 <b>1</b> 89	123
2.	Total number of patients examined with a view to treatment (see Table 7,	col. 2)	36 92	128
Ι.	Year		1929 1930	Total

Table 9, Stages I-IV.

Evaluation of results.

52

#### The Liverpool Radium Institute

Year	Number of patients treated in stage I	Alive	without	recurre observa	mee after a period of ation of	Relative eure rate after a period o	
	(see Table 7, col. 4)	2	9	7 y e :	ars 9 10	5 6 7 8 9 Vears	
1929	0	0	0	0			1
1930	13	9	6				
Total	13	6					
						-	-
			Ta	ble 10	), Stage II.		
			Ev	aluatio	n of results.		
		Alive	without	recurre	nre after a neriod of	Dolotino onno solo office	-
Year	treated in stage II			observa	tion of	observation of	
	(see Table 7, col. 4)	õ	9	2	8 9 10	5 6 7 8 9	1_
	-			y e a	ars	years	
1929	17	20	5	5		29.4 29.4 29.4	1
1930	26	12	12			46.2 46.2	
Total	43	17				39.5	

The Liverpool Radium Institute

Evaluation of results.

Table 10, Stage I.

53

39.5

11									1				-
	Relative cure rate after a period of observation of	5 6 7 8 9 10 Years		13.8 10.3	17.5				Relative cure rate after a period of observation of	5 6 7 8 9 10 years		0.0 0.0	0.0
auanton of reaction	recurrence after a period of observation of	7 8 9 10 Years	6.5				uble 10, Stage IV.	aluation of results.	c recurrence after a period of observation of	7 8 9 10 y e a r s	0		
LJU1	e without r	9	en 	00		Tat	Ta	$Ev_{i}$	without	9	0	0	
	Alive	5	69	4	2				Alive	5	0	0	0
	Number of patients treated in stage IV	(see Table 7, col. 4)	11	29	40				Number of patients tranted in stage IV	(see Table 7, col. 4)	9	21	27
	Vear	*	1929	1930	Total				Vaor	LCal	1929	1930	Total

Table 10, Stage III.

Evaluation of results

54

#### The Liverpool Radium Institute

### (e) THE MARIE CURIE HOSPITAL, LONDON, UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND.

(Contributed by Dr. Elizabeth HURDON.)

#### CANCER OF THE CERVIX UTERI.

STATEMENT OF RESULTS OF TREATMENT IN 1931.

T	a	b	le	1	
				_	~

I.	Total number of patients examined with a view to treatment	130
II.	Of those:	
	1. Not treated (Total of cases comprised in Table 2)	4
	2. Radiologically treated (Total of cases included in Table 3)	126

#### Table 2.

Patients examined at the clinic but not treated.

(a)	Prevented by disease or death from presenting themselves	0
(b)	Seeking treatment elsewhere	0
(c)	Not presenting themselves for unknown reasons	0
(d)	Operation advised	0
( <i>e</i> )	Not accepted owing to lack of accommodation or thera- peutic facilities	0
(f)	Treatment refused by the patient	0
(g)	Treatment considered unsuitable owing to the patient's general condition, to the extent of the disease or to other	
	complications	4
(h)	Some other specified reason	0
	Total	4

#### Table 3.

#### Patients radiologically treated (Table 1, II, 2).

	Stages	Stag	ge I	Stag	e II	Stag	e III	Stag	e IV
	IIV	Number of cases	Per- centage						
Total number of patients treated	126	9	7.1	20	15.9	75	59.5	22	17.5
With microscopical verification	126	9		20		75		22	
Without microscop- ical verification	0	0		0		0		0	

#### Table 4.

Results of treatment estimated after a period of observation of five years, dating from the beginning of treatment.

	1.	2.	з.	4.	5.	6.	7.
Stage	Number of patients treated	Alive without recur- rence	Alive with recur- rence	Patients alive operated upon after failure of radio- therapy	Died of cancer	Lost sight of	Died of inter- current disease
I	9	6	0	0	2	0	1
II	20	12	0	0	7	0	1
III	75	23	1	0	51	0	0
IV	22	1	0	0	20	0	1
I—IV	126	42	1	0	80	0	3

#### Table 5.

Absolute cure rate.

Total number of cases (see Table 1, I)	130
Alive without recurrence five years after the beginning of treatment (see Table 4, col. 2, stages IIV)	42
Absolute cure rate	32.3 %

#### Table 6.

Relative cure rate.

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I-IV)	Percentage
Stage I	9	6	
Stage II	20	12	60.0
Stage III	75	23	30.7
Stage IV	22	1	4.5
Stages I-IV	126	42	33,3

INCLUSIVE.
1925 - 1930
OCTOBER
FOR
STATEMENT

1		2.	ŝ		able 7.		4,			
Ye	ar p	fotal number of atients examined	Patic	onts od but		Radio	logically trea	ated	-	
		with a view to treatment	not tre	ated <sup>1</sup> Stage	es I-IV	Stage I	Stage II	Stage I	II Stage IV	1
195	25 } 36 }	74	H		73 2	63	10	50	11	
195	37	59	24		57	1	9	28	19	
19:	SS	88	G4		86	2	18	46	15	
195	68	110	0		110	. 4	16	02	20	
196	30	142	9		136	9	32	81	17	
	Total	473	11		462	20	85	275	82	
<sup>1</sup> Acc <sup>2</sup> Cast	ording to i es treated (	ndications given i October 1st, 1925	n Table 3 -January	2. 1st, 1926: 14	. Cases t	reated January 1	st, 1926–Ja	nuary 1st	, 1927: 59.	
				I	able 8.					
				Results	of treat	ment.				- 1
1.	2.	3,		4.		5.	6.		.7.	
Year	Number of patients treated	f Alive witho recurrence after a period observation	ut 1 of 2	<sup>1</sup> Alive with recurrence observation	of a p	of cancer during eriod of observ- ation of	Lost sig during a p observat	ght of beriod of ion of	Died from inte- current disease during a period observation of	- JC
	(see Table ( col. 4)	, 5 6 7 8 N years	9   10   5	6   7   8   9 years	9 10 5	6   7   8   9   10 years	5 6 7 Sea	8   9   10 T S	5   6   7   8   9   years	10

The Marie Curie Hospital, London

-\_

Ţ 

- 0

----

1925 | 1926 | 1927 | 1928 |

0 -

0 0 0

0 00 0 - --

15 32 32 32 34 51

36 38 38 38 38

86 110 136

 Total

0 1 

54 76

53 75 80

49 72 78 78

--

Cases treated January 1st, 1926-January 1st, 1927: 59. radiotherapy <sup>1</sup> Including patients alive operated upon after failure of 1 <sup>2</sup> Cases treated October 1st, 1925-January 1st, 1926: 14.

Table 9, Stages I-IV.

Evaluation of results.

1		0	0.5					
	at	-	6.1	9.1				
	rate of	×	.9 21	.6 24	.6			
.9	enre	a r	55	3 24	0 32	-		
	ive	7 y e	23.	3 26.	36.	99.		
	Relat	9	24.7	26.5	37.5	30.5	10.	
	-	5	30.1	26.3	41.9	34.5	41.9	36.1
		10	20.3		<u></u>			
	te at	6	9.1.6	3.7				
	e ra	R	1.6 2	3.7 2	1.8		_	
5.	end end	e a	3.0 2	.4 2	.2 3	1.(	_	
	olute	N -	.3 25	.4 25	.4 35	81 6	6.	
	Abs	9	7 24	4 25	9 36	5 30	4 35	
		5	29.	25.	40.	34	39.	35.
	v-	10	15					
	urrei obsei ble {	6	16	14				
	e Ta e	8 I S	16	14	28(1)			
4.	thout eriod 1 (se col.	7   e a	2	20	31(1)	32(1)		
	e wil a p n of	6   y	00	5	$2(1)^{3}$	4(1)	1(1)	
	Alivo after atio			=	(1)3	3(1)	(1)5	
_		10	22	10	36	ŝ	56	167
	ients ted	4)	51			-		
3	Num pat trea	eol.	252	55	86	11(	136	465
_	of	(20						
	ents ents red view	ale 7,						
2.	ll nu patio amir h a	Tab Sol. 2	74	59	88	110	142	473
	Tota of ex witl	to t (see						
	-		65	2	00	6	0	al
1.	Yea		$192 \\ 192$	192	192	192	193	Tot

<sup>1</sup> The number of cases in which microscopical verification was not obtained is entered in brackets after the principal figures in column 4. From and including 1930 a detailed description of such cases will be found in previous annual reports. <sup>2</sup> Cases treated October 1st, 1925—January 1st, 1925—January 1st, 1925; 14. Cases treated January 1st, 1925—January 1st, 1927; 59.

#### The Marie Curie Hospital, London

59

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(see Table 7, col. 4)     5     6     7     8     9     10     5     6     7     8     9     10       X c a r s     X c a r s     X c a r s     X c a r s     X c a r s     X c a r s	0 6 5 4	29 4 4 4	27         1 <th1< th="">         1         <th1< th=""> <th1< th=""></th1<></th1<></th1<>	25 26 26 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	(see Table 7, col. 4)     5     6     7     8     9     10     5     6     7     8     9     10	r Number of patients Alive without recurrence after a period of Relative cure rate after a period of treated in stage I	f     Relative cure rate after a period of observation of 5     6     7     8     9     10       5     6     7     8     9     10       90.0     9     10     9     10       90.0     9     10     9     10       90.0     5     6     7     8     9     10       90.0     5     6     7     8     9     10       61.1     50.0     50.0     44.4     10       75.0     62.5     62.5     62.5     62.5     62.5	general     10       1     9     10       2     2       2     2       3     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1	10, Stage       10, Stage       11, 1       11, 1       11, 1       11, 1       11, 1       11, 1       11, 1       11, 1       11, 1       11, 1       11, 1       11, 1       11, 1       12, 10, Stage       14, 1       15, 5       16, 10, 10       17, 8       17, 8       16, 7       17, 8       16, 7       17, 8       16, 7       17, 8       16, 7       17, 8       18, 7       19, 8       10, 8       10, 8	without re- obs 5 2 2 5 4 4 4 4 4 Fvalue 6 0 5 5 9 9 10 1 20 1	Alive 25 55 55 55 55 55 55 55 55 55 55 55 55	Number of patients treated in stage I (see Table 7, col. 4) 2 1 7 4 6 6 6 6 6 6 8 0 20 20 10 10 10 10 10 18 18 16 32 32 32 32 32 32 32 32 32 32 32 32 32
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	(see Table (, col. 4) 5   6   7   8   9   10   5   6   7   8   9   10   5   6   7   8   9   10   5   5   6   7   8   9   10   5   5   5   5   5   5   5   5   5		Total201890.0Table 10, Stage II.Evaluation of results.	0         6         5         4         90.0           Total         20         18         90.0           Table 10, Stage II.         Evaluation of results.	9     4     4     4       10     6     5     4     4       7otal     20     18     90.0       Table 10, Stage II.     90.0       Evaluation of results.	17     1     1     1     1     1       18     1     1     1     1     1       10     6     5     5     5     5       10     6     5     4     4     4       10     10     18     1     1     1       11     1     1     1     1     1       10     10     18     1     10       11     10     Stage II.       11     10     results.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(see Table I, col. 4) $5$ $6$ $7$ $8$ $9$ $10$ $5$ $6$ $7$ $8$ $9$ $10$ $7$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $10$ $5$ $6$ $7$ $8$ $9$ $10$ $7$ $1$ <	f Relative cure rate after a period of observation of	ter a period o	currence aft ervation of	without rec	Alive	Number of patients treated in stage II
arNumber of patients treated in stage IIAlive without recurrence after a period of observation of y c a r sRelative cure rate after a period of observation of bservation of y c a r s567891056786544444910	Number of patients treated in stage II (see Table 7, col. 4)Alive without recurrence after a period of observation of $x = 3 + 10$ Relative cure rate after a period of observation of $5 + 6 + 7 + 8 + 9 + 10$ ar(see Table 7, col. 4) $5 + 6 + 7 + 8 + 9 + 10$ $5 + 6 + 7 + 8 + 9 + 10$	r Number of patients Alive without recurrence after a period of Relative cure rate after a period of treated in stage II observation of	Total         20         18         90.0	00         6         5         4         90           Total         20         18         90.0	29 4 4 4 10 6 5 4 4 9 Total 20 18 90.0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(see lable l, col. 4)       5       6       7       8       9       10       5       6       7       8       9       10         5 $y ears$		ge II. esults.	10, Stag tion of r	<b>Table</b> Evalue		
Table 10, Stage II.Table 10, Stage II.Evaluation of results.Evaluation of results.Number of patientsAlive without recurrence after a period of observation of (see Table 7, col. 4)Alive without recurrence after a period of observation of y e a r sRelative cure rate after a period of observation of b   6   7   8   9   105106544444	Table 10, Stage II.Table 10, Stage II.Evaluation of results.In Number of patientsAlive without recurrence after a period of observation of observation of $5   6   7   8   9   10$ 5   6   7   8   9   105   6   7   8   9   10	Table 10, Stage II.       Table 10, Stage II.       Evaluation of results.       Inumber of patients       Alive without recurrence after a period of treated in stage II		6 5 4	29 4 4 4 5 5 4 4 4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	55         66         77         72         73         74         75         76         77         71         72         73         74         75         75         76         76         77         78         79         74         75         75         76         76         76         77         78         79         79         70         70         71         70         71         70         71         70         71         70         71         70         71         71         72         73         74         75         75         76         77         78         79         70         70	$\begin{cases} (see Table I, col. 4) & 5 & 6 & 7 & 8 & 9 & 10 & 5 & 6 & 7 & 8 & 9 & 10 \\ \hline 3 & & & & & & & & & & \\ 7 & & & & & & & &$	10.0				18	20
eurNumber of patients treated in stage I (see Table 7, col. 4)Alive without recurrence after a period of observation of $y \in a r s$ Alive without recurrence after a period of $y \in a r s$ Itelative cure rate after a period of observation of $y \in a r s$ Number of observation of $y \in a r s$ Alive without recurrence after a period of $y \in a r s$ Itelative cure rate after a period of $y \in a r s$ 25222222222644111112765555782965444482018111111201810550.0993018105678930181056789301810567893018105678930106544444444444930106544444567891056789106756789106767891067	arrNumber of patients treated in stage I see Table 7, col. 4)Alive without recurrence after a period of observation of $y \in a r s$ Relative cure rate after a period of observation of $y \in a r s$ Relative cure rate after a period of observation of $y \in a r s$ Number of $y = a r s$	InNumber of patients treated in stage I (see Table 7, col. 4)Alive without recurrence after a period of observation of $y \in a r s$ Relative cure rate after a period of observation of $y \in a r s$ Relative cure rate after a period of observation of $y \in a r s$ Relative cure rate after a period of observation of $y \in a r s$ Number of $y \in a r s$ Relative cure rate after a period of $y \in a r s$ Relative cure rate after a period of $y \in a r s$ Number of $y \in a r s$ Number of $y \in a r s$ Number of $y \in a r s$ Relative cure rate after a period of $y \in a r s$ Relative cure rate after a period of $y \in a r s$ $z$	nrNumber of patients treated in stage I (see Table 7, col. 4)Alive without recurrence after a period of observation of ye a r sRelative cure rate after a period of observation of $3 - 6 - 7 - 8 - 9 - 10$ Relative cure rate after a period of observation of $3 - 6 - 7 - 8 - 9 - 10$ 5678910567891062222261111176555594444	Number of patients treated in stage I (see Table 7, col. 4)Alive without recurrence after a period of observation of ye a r sRelative cure rate after a period of observation of sRelative cure rate after a period of observation of s $5$ $6$ 789105678910 $5$ $3$ $2$ $2$ $2$ $2$ $2$ $2$ $3$ $9$ 10 $5$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $5$ $5$ $2$ $2$ $2$ $2$ $2$ $3$ $9$ $10$ $5$ $7$ $6$ $5$ $5$ $2$ $2$ $2$ $3$ $10$ $5$ $7$ $6$ $5$ $5$ $2$ $2$ $2$ $3$ $10$ $5$ $7$ $6$ $5$ $5$ $2$ $2$ $2$ $2$ $5$ $7$ $6$ $5$ $5$ $5$ $2$ $2$ $3$ $5$ $7$ $6$ $5$ $5$ $5$ $10$ $5$ $7$ $6$ $5$ $5$ $5$ $2$ $6$ $7$ $5$ $5$ $5$ $2$ $2$ $6$ $7$ $5$ $5$ $5$ $5$ $6$ $7$ $6$ $5$ $5$ $5$ $6$ $7$ $6$ $5$ $5$ $7$	Number of patients treated in stage I (see Table 7, col. 4)Alive without recurrence after a period of observation of $y e a r s$ Relative cure rate after a period of observation of $b = 10$ Relative cure rate after a period of observation of $b = 10$ 5678910567852222222910		Number of patients Alive without recurrence after a period of Relative cure rate after a period of treated in stage I observation of			commo.	- In month			

Table 10, Stage I. Fudination of results

60

The Marie Curie Hospital, London

Year	Number of patients treated in stage III	Alive	without	t recurr observa	ence aft ation of	er a peri	od of	Rela	tive cu	re rate observat	after a tion of	t period	of
	(see Table 7, col. 4)	Ð	9	y c	1 8 a r s	9	10	2	6	7   Vea	8   8	6	10
$1925 \\ 1926 \\ \}$	50	14	11	11	10	10	6	28.0	22.0	22.0	20.0	0.02	18.0
1927	28	6	6	6	ŝ	00		32.1	32.1	32.1	28.6	28.6	
1928	46	16	15	15	13			34.8	32.6	32.6	28.3		
1929	20	20)	18	16		-		28.6	25.7	22.9			
1930	81	27	57					33.3	29.6				
Total	275	86						31.3				-	
			Tak Evc	le 10, iluation	, Stage n of res	IV. sults.							
Ycar	Number of patients treated in stage IV	Alive	without	recurre	ence afte tion of	er a perio	od of	Relat	live cu	re rate bservat	after a tion of	t period	of
	(see Table 7, col. 4)	5	9	7 C	1 8   1 S	9	10	2	9	7   V 6.9	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	6	10
$1925 \\ 1926 \\ \end{cases}$	11	0	0	0	0	0	0						
1927	19	0	0	0	0	0		0.0	0.0	0.0	0.0	0.0	
1928	15	က	ි	63	62			20.0	20.0	13.3	13.3	2	
1929	20	\$	63	\$				10.0	10.0	10.0			
1930	17	67	3					17.6	17.6				
Total	82	8						9.8					

Table 10, Stage III.Evaluation of results.

#### The Marie Curie Hospital, London

61

#### (f) RADIUM CENTRE FOR CARCINOMA OF THE UTERUS, LONDON COUNTY COUNCIL, UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND.

(Contributed by Sir Comyns BERKELEY.)

#### CANCER OF THE CERVIX UTERI.

STATEMENT OF RESULTS OF TREATMENT IN 1931.

#### Table 1.

I.	Total number of patients examined with a view to treatment	96	
II.	Of those:		
	1. Not treated (Total of cases comprised in Table 2) $\dots$	9	
	<ol> <li>Radiologically treated (Total of cases included in Table 3)</li> </ol>	87	

#### Table 2.

Patients examined at the clinic but not treated.

(a) Prevented by disease or death from presenting themselves	0
(b) Seeking treatment elsewhere	0
(c) Not presenting themselves for unknown reasons	0
(d) Operation advised	1
(e) Not accepted owing to lack of accomodation or thera- peutic facilities	0
(f) Treatment refused by the patient	1
(g) Treatment considered unsuitable owing to the patient's general condition, to the extent of the disease or to other complications	7
(b) Some other specified reason	0
Total	9

#### Table 3.

Patients radiologically treated (Table 1, II, 2).

	Stages	Stag	ge I	Stag	e II	Stage	e III	Stag	e IV
	I—ĬV	Number of cases	Per- centage	Number of cases	Per- centage	Number of cuses	Per- centage	Number of cases	Per- centage
Total number of patients treated	87	4	4.6	27	<b>31</b> .0	37	42.5	19	21,8
With microscopical verification	86	4		27		36		19	
Without microscop- ical verification .	1 1	0		0		1		0	

<sup>1</sup> This patient died before the end of the five year period.

#### Table 4.

Results of treatment estimated after a period of observation of five years, dating from the beginning of treatment.

1	1.	2.	3.	4.	5.	6.	7.
Stage	Number of patients treated	Alive without recur- rence	Alive with recur- rence	Patients alive operated upon after failure of radio- therapy	Died of cancer	Lost sight of	Died of inter- current disease
Ι	4	1	0	0	2	1	0
II	27	3	0	0	23	1	0
III	37	7	0	0	30	0	0
IV	19	0	0	0	19	0	0
I—IV	87	11	0	0	74	2	0

#### Table 5.

Absolute cure rate.

Total number of cases (see Table 1, I)	96
Alive without recurrence five years after the beginning of treatment (see Table 4, col. 2, stages $\rm I{}IV)$	11
Absolute cure rate	11.5 %

#### Table 6.

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I-IV)	Percentage
Stage I	4	1	
Stage II	27	3	11.1
Stage III	37	7	18.9
Stage IV	19	0	0.0
Stages I—IV	87	11	12.6

#### Relative cure rate.

œ
5
E.
00
1
1
0
Z
i-i
_
0
3
6
-
1
òò
2
6
-
22
0
Æ
5-1
2
1
-
1
£
E
Y
5-1
n.
92

able
E

Total number of	2. 3. otal number of	69			1º16.00	4,		
ar patients examined Patients with a view to not treated by treatment	tients examined Patients with a view to not treated by treatment	Patients examined by not treated	1 ut	Stages I-I	V Stage I	stage II Sta	ge III	Stage IV
28 21 1 1	21 1 1	1		20	1	8	9	4
29 83 10	83 10	10		73	9	12	30	25
30 66 9	66 99	6		22	60	24	18	12
Total 170 20	170 20	20		150	10	42	22	41
ording to indications given in Table 2.	dications given in Table 2.	ı Table 2.						
				Table 8				
R	R	R	0	sults of tre	atment.			
2. 8.	3.			4	5.	6.	_	7.
Number of Alive without Aliv patients after a period of after a observation of observ	Alive without Aliv recurrence recu after a period of after a observation of observ	ut Aliv recu of after a observ	a l e	with rence period of tion of	bied of cancer durin a period of observ- ation of	g Lost sight of during a period o observation of	of durin obs	l from inter- rent disease ng a period of servation of
col. 4) 5   6   7   8   9   10   5   6   7 years years years	5         6         7         8         9         10         5         6         7           years         years	9   10   5   6   7 y e		ars 9 10	5 6 7 8 9 10 years	5 6 7 8 9 9 Years	10 5 6	5 7 8 9 10 years
20 2 2 2 2 0 0	2 2 2 2 0 0	0 0 0		0	18 18 18 18	0 0 0 0	0 0	0 0 0
73 12 9 7 0 0	12 9 7 0 0	0 0			59 61 63	50 50 50	0	0 (
57 10 10 0 0	10 10 0 0	0 0			46 46	1 1	0	

5-382456

0 0

-----0 1

46 46 4

57

1930 Total

-				_		-
6.	Relative cure rate at the end of	5   6   7   8   9   10 years	10.0 10.0 10.0 10.0	16.4 12.3 9.6	17.5 17.5	16.0
5.	Absolute cure rate at the end of	5   6   7   8   9   10 years	9.5 9.5 9.5 9.5	14.5 10.8 8.4	15.2 15.2	14.1
4.	Alive without recurrence after a period of observ- ation of (see Table 8, col. 3)	5   6   7   8   9   10 years	2 2 2 2	12 9 7	10 10	24
3.	Number of patients treated	(see Table 4) col. 4)	20	73	57	150
2.	Total number of patients examined with a view	to treatment (see Table 7, col. 2)	31	83	66	170
1.	Year		1928	1929	1930	Total

Table 9, Stages 1–IV.Evaluation of results.

66

#### Radium Centre for Carcinoma of the Uterus, London

Stage
10,
Table

0

Evaluation of results.

Year	Number of patients treated in stage I	Alive	without	recurrer observat	ice after ion of	a peric	d of	Relative cure rate after a period of observation of
	(see Table 7, col. 4)	5	6	7 yea	8 r s	6	10	5 6 7 8 9 10 years
1928	1	1	1	1	1			
1929	9	63	63	67				
1930	3	63	63				_	
Total	10	5						
								-
			Tal	ble 10,	Stage	II.		
			Eva	lluation	of resi	ults.		
Year	Number of patients treated in stage II	Alive	without	recurren observat	ce after ion of	a perioo	d of	Relative cure rate after a period of observation of
	(see Table 7, col. 4)	ő	9	7 Yea	r s	6	10	5 6 7 8 9 10 Vears
1928	9	0	0	0	0		_	
1929	12	e0	63	63				
1930	24	5	5					20.8 20.8
Total	42	00						19.0

67

19.0

00

Evaluation of results.	out recurrence after a period of Relative cure rate after a period of observation of	7 8 9 10 5 6 7 8 9 10 years years		<b>1</b> 3 20.0 13.3 10.0	5.6 5.6	14.0	able 10. Stage IV.	Evaluation of results.	out recurrence after a period of Relative cure rate after a period of observation of	7         8         9         10         5         6         7         8         9         10           years         years	0 0	0 4.0 4.0 0.0		7.3
Evalu	ive without rec	9 9	1 1	6 4	1 1		Tahl	Eval	live without r	9 9	0 0	1 1	2	3
	ber of patients and in stage III able 7, col. 4) 5	Table 7, col. 4) 5	9 1	30 6	18 1	57 8			ther of patients Alive -	Table 7, col. 4) 5	4 0	25 1	12 2	41 3
	Vear treat	(see	1928	1929	1930	Total			Nun Vear	(see	1928	1929	1930	Total

Table 10, Stage III.

68

#### Radium Centre for Carcinoma of the Uterus, London

#### (g) THE INSTITUT DU CANCER, PARIS, FRANCE. (Contributed by Dr. Simone Laborde.)

#### CANCER OF THE CERVIX UTERI.

#### STATEMENT OF RESULTS OF TREATMENT IN 1931.

#### Table 1.

I. II.	Total number of patients examined with a view to treatment Of those:	111
	1. Not treated (Total of cases comprises in Table 2) $\dots$	28
	2. Radiologically treated (Total of cases included in Table 3)	83

#### Table 2.

Patients examined at the clinic but not treated.

(a) Prevented by disease or death from presenting themselves	0
(b) Sceking treatment elsewhere	0
(c) Not presenting themselves for unknown reasons	3
(d) Operation advised	1
(e) Not accepted owing to lack of accommodation or thera- peutic facilities	0
(f) Treatment refused by the patient	0
(g) Treatment considered unsuitable owing to the patient's general condition, to the extent of the disease or to other	
complications	24
(h) Some other specified reason	0
Total	28

#### Table 3.

	Stages	Stag	ge I	Stag	ge II	Stag	e III	Stag	e IV
	I—ĬV	Number of cases	Per- centage						
Total number of patients treated	83	9	10.8	15	18. <b>1</b>	40	48.2	19	22.9
With microscopical verification	83	9		15		40		19	
Without microscop- ical verification.	0	0		0		0		0	

Patients radiologically treated (Table 1, II, 2).

#### Table 4.

Results of treatment estimated after a period of observation of five years, dating from the beginning of treatment.

	1.	2.	3.	4.	5.	6.	7.
Stage	Number of patients treated	Alive without recur- rence	Alive with recur- rencc	Patients alive operated upon after failure of radio- therapy	Died of cancer	Lost sight of	Died of inter- current disease
Ι	9	4	0	0	3	1	1
II	15	8	0	0	7	0	0
III	40	14	1	0	22	3	0
IV	19	2	0	0	16	1	0
I—IV	83	28	1	0	48	5	1
#### Table 5.

## Absolute cure rate.

Total number of cases (see Table 1, I)	111
Alive without recurrence five years after the beginning of treatment (see Table 4, col. 2, stages I-IV)	28
Absolute cure rate	25.2

## Table 6.

## Relative cure rate.

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I-IV)	Percentage
Stage I	9	4	
Stage II	15	8	53.3
Stage III	40	14	35.0
Stage IV	19	2	10.5
Stages I—IV	83	28	33.7

INCLUSIVE.
1921 - 1930
FOR
STATEMENT

The second s							
Ι.	2.	υ,			4.		
Year	Total number of patients examined	Patients examined but		Rad	liologically tre	ated	
	with a view to treatment	not treated <sup>1</sup>	Stages I-IV	Stage I	Stage II	Stage III	Stag
1601	۱ ۲						
1261	15	4	11	0	-1	9	
1922	38	13	25	C.J	53	13	-
1923	32	2	25	1	53	12	1
1924	44	12	32	0	2	23	
1925	38	8	30	0	9	14	1
1926	59	80	51	0	6	24	1
1927	78	23	55	9	10	22	1
1928	85	24	61	2	10	32	
1929	66	39	60	1	9	27	64
1930	87	7	80	8	13	38	6.4
Total	575	145	430	25	64	210	10

<sup>1</sup> According to indications given in Table 2.

Table 7.

72

The Institut du Cancer, Paris

3548040

 $\mathbf{V}$ 

## The Institut du Cancer, Paris

	- of	10		> <	0		-							
	ease iod	6	0	> -	0	-	-	-					-	
	dis dis per	8		>	0	H	H	-		4				-
1	fro ent g a	7 7	0	>	0	0	0	-		60	02			
	urr urr bse	9	0	>	0	0	0	H	-	63		67		
	du c	20	C	0	0	0	0	0	H	63	-	07	9	
	of	10	C		-		0	Η						
	iod iod n o	6	C		-	0	0	0	C3					
	ight per	a r 8	C	>		0	0	0	63	10				
	st s s a srva	ye 7	C		-	0	0	0	63	10	1			
	Los ring	9	C	~	-	0	0	0	G.S	10	1	63		
	np	5	C	0	-	0	0	0		4	2	63	15	
	/- ng	10	6	19	21	26	22	43						
	luri ser	6	6	12	21	26	21	43	40					
	of of	L S	5		5	56	10	6	10	E				
5.	anc l of ion	e a		200	3/ 2) 	24	0	03	0	0 4	10			
	of c riod ati	->	-		1	02	20	4	) 4	9 4	5	~		
	pe	9		<u>~~</u>	62	10	0 2(	1 49	8 4(	60 00	1 3	22	- 10	vue.
	Di	20		ĩ	63	63	õ	4	ñ	ñ	ŝ	20	29	ther
	of	10	0	0	0	0	0	0						dio
	ith ice iod n c	5. 5	0	0	0	0	0	0	0					f ra
	e w rren perj	ar ar	0	0	0	0	0	0	0	0				G
	Aliv ecu erva	y e	0	0	0	Ţ	0	0	0		0			ilur
	1 r fter obs	9	0	0	0	1	0	0	0	03		1		fa
	5	5	0	0	0	Т	0		0	1	0	-	4	fter
	4	10	62	4	60	4	2	9						na
	out ee od c	6	50	ŝ	60	ŝ	00	2	12					oan
	vith renc eric tion	8 I I S	50	5	3	10	00	2	12	11				ed
69	e w curi a p rva	7   7 e a	62	10	റ	9	10	00	12	12	16			erat
	re re ler	6	62	24	60	9	10	00	52	3	2	52		0D(
	afi		03	1	3	1-	10	6	15	16 ]	18	52	60	ive
_		•											1	s al
	r of od	4)												ente
2.	tier	1 au	11	25	25	32	30	51	55	61	60	80	30	pati
	pa	CC											4	ng Dg
-					_									udin
	ar		21	22	23	24	25	36	22	28	53	30	tal	ncl
	Y		19	19	19	19	19	19	19	19	19	19	$T_0$	1

**Table 8.** Results of treatment.

-																
			10				16.0	12.0	12.5	23.3	11.8					
		te at	6				20.0	12.0	15.6	26.7	13.7	21.8				
		re ra	00	r s			20.0	12.0	15.6	26.7	13.7	21.8	18.0			
	6.	e cui		e a		~	0.02	12.0	18.8	33.3	15.7	21.8	20.0	26.7		
		elativ	9	S			0.05	12.0	8.8	33.3	15.7	21.8	21.3	88.3	27.5	
		Re	5				8.0 2	2.0 ]	1.9 1	33.3	7.6	7.3	6.2 5	30.0	51.5	5.3
			10	-		0.03 0.03	0.5	9.4 1	9.1 5	8.4	0.2	GN .	6.4	6.5	6.4	6.4
		e at	6			3.3 1	3.2 1	9.4	1.4	1.11	1.91	5.4		_	_	
		e rat 1 of	00	r s		3.3 1	3.2 1	9.4	1.4 1	1.1 2	1.9 1	5.4 1	2.9			
	5.	e end		e a		3.3 1	3.2 1	9.4	3.6 1	6.3 2	3.6 1	5.4 1	4.1 1	6.2		
		soluto th	9	V		3.3 1	3.2 1	9.4	3.6 1	6.3 2	3.6 1	5.4 1	0.3 1	7.2 1	5.3	
		Abs				3.3 13	3.4 1.	9.4	0.9 1	3.3 2(	.3 1	9.2 15	8.8 15	3.2 1	5.3 25	0.0
			0	_		50	4 18	60	4 15	7 2(	6 15	10		12	ŝ	16
		serv-serv-	1													
		ecuri f ob fable	6	s		C2	ю 	679	<u>م</u> ر	00		12				
	4.	iod o see 1 1. 3)	∞	a r		62	10	60	, C	00	2	12	11			
		withc per of ( co	2	y e		62	<u>م</u>	60	9	10	00	12	12	16		
		ive reca	9			62	ົດ	60	9	10	00	12	13	17	22	
		aft a	5			\$	2	3	1-	10	6	15	16	18	22	109
		er nts d	(e 4,													
	3.	umbo patie reate	ol. 4			11	25	25	32	30	51	55	61	60	80	430
		of	(see										_			
		nber nts ed iew	le 7,	-												
	2.	l nun patie amin 1 a v	Tabl	ol. 2		15	38	32	44	38	59	78	85	66	87	575
		Tota of ex with	to t (see	0												
	-						0		4	10	9	2	00	6	0	tal
	1.	Year				192	1923	192	1924	192	1930	192	1928	192	193	$T_0$
					1											

Table 9, Stages I-IV.Evaluation of results.

74

The Institut du Cancer, Paris

## The Institut du Cancer, Paris



Table 10, Stage I.

( in the second s
1
9
ar
U.S.
-
68
-
70
012
~
0
ſ0,
10,
10,
010,
e 10,
le 10,
ole 10,
ble 10,
uble 10,
able 10,
Table 10,

Evaluation of results.

	ative cure rate after a period of observation of	6 7 8 9 10	years											
	Rel	5												48.4
	od of	10		1	1		Ţ	4	63					
	a peri	6		 1	1	Ţ	Ţ	2	63	0				
	ecurrence after bservation of 7 8	r s	 1	1	1	1	ũ	\$	60	1				
		2	y e a	 1	Ţ	1	Ţ	9	\$	00	1	9		
	vithout .	9		 Ţ	1	1	Ţ	9	\$	ŝ	\$	2	9	
	Alive w	ð		1	Ţ	1	Ţ	9	\$	e9	00	2	9	31
	Number of patients treated in stage II	(see Table 7, col. 4)		1	63	53	63	9	9	10	10	9	13	64
	Year			1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	Total

## The Institut du Cancer, Paris

d of	10					13.0		16.7					
t perio	6					17.4		20.8	18.2				
after a tion of	00	r s				17.4		20.8	18.2	281			
re rate bserva	1-	y e a				21.7		25.0	18.2	31.3	33.3		-
tive cu	9					21.7		25.0	18.2	31.3	33.3	31.6	
Relat	2					26.1		29.2	27.3	34.4	37.0	31.6	99.5
od of	10		1	67	1	က	က	4					
a peri	6		Ц	60	1	4	e9	5	4				
ice after ion of	~	r s	 Ţ	en	1	4	3	ũ	4	6			
recurren bservat	1.0	уеа	 Ţ	600		ũ	4	9	4	10	6		
vithout o	9		1	က	1	5	4	9	4	10	6	12	
Alive v	5		1	4	1	9	4	2	9	11	10	12	62
Number of patients treated in stage III	(see Table 7, col. 4)		9	12	12	23	14	24	22	32	27	30	210
Year			1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	Total

Table 10, Stage III.Evaluation of results.

## The Institut du Cancer, Paris

Stage IV.	of results.
Table 10,	Evaluation

d of	10								0.0					
a perio	6								0.0	0.0				
after a	œ	I S							0.0	0.0				
re rate bserva	2	уеа							0.0	0.0		4.3		
tive cu	9								0.0	0.0		4.3	9.5	
Relat	2								0.0	0.0		4.3	9.5	60
od of	10	_		0	0	0	0	0	0			_		
a peri	6			0	0	0	0	0	0	0				
ce after ion of	00	r s		0	0	0	0	0	0	0	0			
ecurren bservati	2	уеа		0	0	0	0	0	0	0	0	1		
thout r	9			0	0	0	0	0	0	0	0	1	63	
Alive wi	5			0	0	0	0	0	0	0	0	1	53	3
Number of patients treated in stage IV	(see Table 7, col. 4)			4	9	10	2	10	18	17	12	23	21	131
Year				1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	Total
	Number of patientsAlive without recurrence after a period of observation ofRelative cure rate after a period of observation of	Number of patientsAlive without recurrence after a period of observation ofRelative cure rate after a period of observation ofYear(see Table 7, col. 4)5678910	YearNumber of patients treated in stage IV (see Table 7, col. 4)Alive without recurrence after a period of observation of $5   6   7   8   9   10$ Relative cure rate after a period of observation of $5   6   7   8   9   10$	YearNumber of patients treated in stage IVAlive without recurrence after a period of observation of $5   6   7   8   9   10$ Relative cure rate after a period of observation of $5   6   7   8   9   10$ Year(see Table 7, col. 4)5   6   7   8   9   105   6   7   8   9   10	YearNumber of patients treated in stage IV (see Table 7, col. 4)Alive without recurrence after a period of observation of $y \in a r s$ Relative cure rate after a period of observation of $5   6   7   8   9   10$ 192140000000	YearNumber of patients treated in stage IV (see Table 7, col. 4)Alive without recurrence after a period of observation of y e a r sRelative cure rate after a period of observation of $5   6   7   8   9   10$ 192140000000192290000000	YearNumber of patients treated in stage IV (see Table 7, col. 4)Alive without recurrence after a period of observation of y e a r sRelative cure rate after a period of observation of $5   6   7   8   9   10$ 1921400000019229000000192310000000	YearNumber of patients treated in stage IV (see Table 7, col. 4)Alive without recurrence after a period of observation of $y e a r s$ Relative cure rate after a period of observation of $y e a r s$ Relative cure rate after a period of observation of $y e a r s$ Number of oh ohNumber of oh ohNumber of oh oh ohNumber of oh o	Year treated in stage IV (see Table 7, col. 4)Alive without recurrence after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of observation of $3 - 6$ Relative cure rate after a period of $3 - 6$ Relative cure rate after a period of $3 - 6$ Relative cure rate after a period of $3 - 6$ Relative cure rate after a period of $3 - 6$ Relative cure rate after a period of $3 - 6$ Relative a period of $3 - 6$ Relative after a period of $3 - 6$ Relative after a period of $3 - 6$ Relative after a period of 	Year         Number of patients treated in stage IV (see Table 7, col. 4)         Alive without recurrence after a period of observation of y e a r s         Relative cure rate after a period of observation of y e a r s           1921         4         0	YearNumber of patients treated in stage IV (see Table 7, col. 4)Alive without recurrence after a period of observation of y e a r sRelative cure rate after a period of observation of y e a r sRelative cure rate after a period of observation of y e a r sObservation of o bObservation of o b19211922100000000000019231000000000000001924700000000000001925180000000000000192717000000000000001927170000000000000	Year         Number of patients treated in stage IV (see Table 7, col. 4)         Alive without recurrence after a period of observation of y e a r s         Relative cure rate after a period of observation of y e a r s         Period of observation of y e a r s         Observation of y e a r s         Observat r a r s         Observat r a r s	Year         Number of patients treated in stage IV (see Table 7, col. 4)         Alive without recurrence after a period of observation of y e a r s         Relative cure rate after a period of observation of y e a r s         Relative cure rate after a period of observation of y e a r s         Period of y e	Year         Number of patients treated in stage IV (see Table 7, col. 4)         Alive without recurrence after a observation of         Relative cure rate after a observation of         Period of           1921         4         0

## The Institut du Cancer, Paris

# (h) The Institut du Radium de l'Université de Paris, France.

(Contributed by Dr. A. LACASSAGNE.)

## CANCER OF THE CERVIX UTERI.

STATEMENT OF RESULTS OF TREATMENT IN 1931.

#### Table 1.

I.	Total number of patients examined with a view to treatment	157
II.	Of those:	
	1. Not treated (Total of cases comprised in Table 2)	55
	2. Radiologically treated (Total of cases included in	
	Table 3)	102

#### Table 2.

Patients examined at the clinic but not treated.

(a) Prevented by disease or death from presenting themselves	0
(b) Seeking treatment elsewhere	5
(c) Not presenting themselves for unknown reasons	5
(d) Operation advised	0
(e) Not accepted owing to lack of accommodation or thera- peutic facilities	26
(f) Treatment refused by the patient	0
(g) Treatment considered unsuitable owing to the patient's general condition, to the extent of the disease or to	
other complications	19
(h) Some other specified reason	0
Total	55

#### Table 3.

Stage II Stage III Stage IV Stage I Stages I--ĬV Number Per-of cases centage Number Per-of cases centage of cases centage Number Perof cases centage Total number of 1021211.8 44 33.3 1211.8 patients treated 43.134 With microscopical verification .... 34 12 102 1244 Without microscop-0 0 0 0 0 ical verification

Patients radiologically treated (Table 1, II, 2).

#### Table 4.

Results of treatment estimated after a period of observation of five years, dating from the beginning of treatment.

	1.	2.	3.	4.	5.	6.	7.
Stage	Number of patients treated	Alive without recur- rence	Alive with recur- rence	Patients alive operated upon after failure of radio- therapy	Died of cancer	Lost sight of	Died of inter- current disease
т	19	Q	0	0	9	0	1
1	1.0	0	U	U	U	U	1
II	44	19	1	0	20	1	3
III	34	11	0	0	21	0	2
IV	12	1	0	0	11	0	0
IIV	102	39	1	0	55	1	6

#### Table 5.

#### Absolute cure rate.

Note.—Calculation of absolute cure rate omitted because the available facilities at the Institut du Radium are not sufficient for treatment of all patients presenting themselves, a number of patients being referred to other anti-cancer centres of Paris.

#### Table 6.

R	el	ai	we	cure	rate.
---	----	----	----	------	-------

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I—IV)	Percentage
Stage I	12	8	
Stage II	44	19	43.2
Stage III	34	11	32.3
Stage IV	12	1	
Stages I-IV	102	39	38.2

6-382456

1.	2.	9°,			4.		
Voon	Total number of patients examined	Patients availined but		Rad	iologically tre	ated	
1 CAL	with a view to treatment	not treated <sup>1</sup>	Stages I-IV	Stage I	Stage II	Stage III	Stage IV
1919-25 2	789	296	493	49	181	204	59
1926	108	20	88	4	29	41	14
1927	113	19	94	11	33	36	14
1928	118	24	94	9	47	37	4
1929	135	88	102	11	38	46	2
1930	158	47	111	16	34	47	14
Total	1,421	439	982	26	362	411	112

Table 8.Results of treatment.

				2						
	of of	10	<u> </u>					_		
	into seas iod	s 9	14	9	4					
	dis dis per tio	ar 8	13	9	60	10				
-1	froi ent 5 a rva	6 9	11	9	63	20	x			
	ed irre ing	6 V	6	60	-	3	1	00		
	Die	5	1	60		60	1	52	33	
	<u></u>	0	~						G X	
	d o of	1	~		07					
	nt c	v								
6.	t pe atio	9 E	1.5		6.2					e 7
	st st lig 8	y e	10	-	62	4	52			abl
	Lo obs	9	10	~	03	4	-	0		F
	qı	ŝ	20	-	G.S	4	-	0	13	ි ව ව
	1 00	10	66	56						lot
	erv	_	4 3	9	2					e I
	r d obs of	S	936	0	6	10				S
5.	of	ສ_ ເຊ	35	10	9	4				1
	ca od atic	y e	355	56	62	45	51			
	l of eri	9	53	53	62	45	49	50		Cap
	Diec a F		16 3	00	60	13	19	54	01	the
	- J	-	<u> </u>			4.	4.		9	diot
	of	1								La
	rith nce riod	v	100							of
4.	e w rrei pei atio	9 I 8		_	-	GLU				ure
	liv ecu erv	y e	1		4	-	GI			fail
	r fter obs	9	11	63	02	0	4	-		er
	ದ	5	17	4	2	03	63	က	33	aft
		10	03	24						TIO
	of	-	33 1	35	5					CIN
	nce		710	10	60	9				ted
с. С.	wit rre per atic	2 S	10	02	3	60	-			era
	ve ecu erv	7 y e	112	50	24	30	30			(10
	Ali r iter obs	9	15	29	23	42	41	49		ive
	5		181	30	57	42	43	52	12	al
-	   « <u>+</u> , ,		-						3	nts
	r o lts	t)								atie
2.	nbe tier eat	Lab	193	88	94	94	102	111	982	0 2
	pat	ee co						. ,		ling
-	4	(s								sluc
	ar		-25	56	22	83	56	30	ota.	Inc
-	Yea		19-	19	19	19	19	19	T	14
1			0							

82

The Institut du Radium de l'Université de Paris

Table 9, Stages I-IV.

Evaluation of results.

6.	Relative cure rate at the end of	5 6 7 8 9 10 years	38.9 23.3 22.7 21.7 20.9 20.9	34.1 33.0 28.4 28.4 28.4 27.3	28.7 28.7 25.5 24.5 22.3	14.7 44.7 41.5 38.3	12.2 40.2 38.2	16.8 44.1	818
5.	Absolute cure rate at the end of	5 6 7 8 9 10 y e a r s				41	4	4	
4.	Alive without recurrence after a period of observ- ation of (see Table S, col. 3)	5 6 7 8 9 10 years	118 115 112 107 103 103	30 29 25 25 25 24	27 27 24 23 21	42 42 39 36	43 41 39	52 49	312
ы.	Number of patients treated (see Table 7	col. 4)	493	88	94	94	102	111	982
2.	Total number of patients examined with a view to treatment	(see Table 7, col. 2)	789	108	113	118	135	158	1,421
·l.	Year		1919-251	1926	1927	1928	1929	1930	Total 1

The Institut du Radium de l'Université de Paris

Stage I.	of results
10, 5	tion
Lable	Evalua

	Number of natients	Alive	without	recurre	nce afte	r a per	iod of	Rela	tive cu	re rate	after a	period	of
Vear	treated in stage I			observat	tion of					DServa	10 11011		
1 741	(see Table 7, col. 4)	5	9	7 yea	r s	6	10	5	9	y e a	8 1 r s	6	10
1919-25 1	49	25 .	25	25	25	25	25	51.0	51.0	51.0	51.0	51.0	51.0
1926	4	4	4	4	4	4	4						
1927	11	2	2	2	2	9							
1928	9	4	4	63	63								
1929	11	x	x	2									
1930	16	12	12					75.0	75.0				
Total	26	60						61.9					
<sup>1</sup> See note 2,	page 82, Table 7.		Ta	ble 10	, Stag	e II.							
			Evc	luatior	i of re	sults.							
L.	Number of patients	Alive	without	recurre observa	tion of	er a per	iod of	Rel	utive cu	rre rate observa	after a tion of	a period	1 of
I CAF	(see Table 7, col. 4)	2	9	7 v e	L S	6	10	5	9	y e	a r s	6	10
1919-25 1	181	55	53	52	48	48	48	30.4	29.3	28.7	26.5	26.5	26.5
1926	29	15	15	13	13	13	12	51.7	51.7	44.8	44.8	448	41.4
1927	33	12	12	11	11	10		36.4	36.4	33,3	33.3	30.3	
1928	47	24	24	23	21			51.1	51.1	48.9	44.7		
1929	38	20	20	20				52.6	52.6	52.6			
1930	34	19	19					55.9	55.9				
Total	362	145						40.1					

The Institut du Radium de l'Université de Paris

<sup>1</sup> See note 2, page 82, Table 7. Total

145

362

Year	Number of patients treated in stage III	Alive	without	recurre	nce afte tion of	r a per	iod of	Rela	tive cu	re rate bserva	after a tion of	period	of
	(see Table 7, col. 4)	2	9	y e a	8 I S	6	10	2	9	7   V e a	8 I S	6	10
1919-25 1	204	37	36	34	33	30	30	18.1	17.6	16.7	16.2	14.7	14.7
1926	41	11	10	00	30	90	00	26.8	24.4	19.5	19.5	19.5	19.5
1927	36	00	00	9	2	õ		22.2	22.2	16.7	13.9	13.9	
1928	37	14	14	14	13			37.8	37.8	37.8	35.1		
1929	46	15	13	12				32.6	28.3	26.1			
1930	47	16	15					34.0	31.9				
Total	411	101						24.6				•	
<sup>1</sup> See note $2$ ,	page 82, Table 7.											-	
			Tal	ble 10,	, Stage	.VI							
		1	Eve	luation	1 of re	sults.							
Year	Number of patients treated in stage IV	Alive '	without	recurrel	nce afte tion of	r a per	iod of	Rela	tive cu	re rate observa	after a tion of	l period	of
	(see Table 7, col. 4)	5	9	y e a	r so	6	10	Ð	9	V 6 2	1 r s	6	10
1919-251	59		1	H	1	0	0	1.7	1.7	1.7	1.7	0.0	0.0
1926	14	0	0	0	0	0	0						
1927	14	0	0	0	0	0							
1928	4	0	0	0	0								
1929	2	0	0	0									
1930	14	j.C	က										

Table 10, Stage III. Evaluation of results. -

ŏ.4

<sup>1</sup> See note 2, page 82, Table 7.

9

112

Total

The Institut du Radium de l'Université de Paris

.

# (i) The Radiumhemmet, Stockholm, Sweden.

(Contributed by Prof. J. HEYMAN.)

## CANCER OF THE CERVIX UTERI.

STATEMENT OF RESULTS OF TREATMENT IN 1931.

#### Table 1.

I.	Total number of patients examined with a view to treatment Of those:	219
11.	1. Not treated (Total of cases comprised in Table 2)	8
	2. Radiologically treated (Total of cases included in Table 3)	211

#### Table 2.

Patients examined at the clinic but not treated.

(a) Prevented by disease or death from presenting themselves	0
(b) Seeking treatment elsewhere	0
(c) Not presenting themselves for unknown reasons	0
(d) Operation advised	0
(e) Not accepted owing to lack of accommodation of thera- peutic facilities	0
(f) Treatment refused by the patient	0
(g) Treatment considered unsuitable owing to the patient's general condition, to the extent of the disease or to	
other complications	8
(h) Some other specified reason	0
Total	8

#### Table 3.

Patients radiologically treated (Table 1, II, 2).

	Stages	Stag	ge I	Stag	e II	Stage	e III	Stag	e IV
	I—ĬV	Number of cases	Per- centage						
Total number of patients treated	211	31	14.7	67	31.8	71	33.6	42	19.9
With microscopical verification	211	31		67		71		42	
Without microscop- ical verification	0	0		0		0		0	

#### Table 4.

Results of treatment estimated after a period of observation of five years, dating from the reginning of treatment.

	1.	2.	3.	4.	5.	6.	7.
Stage	Number of patients treated	Alive without recur- rence	Alive with recur- rence	Patients alive operated upon after failure of radio- theraphy	Died of eancer	Lost sight of	Died of inter- current disease
т	21	15	1	0	15	0	0
1		10	T	0	10	0	U
II	67	18	2	1	42	0	4
III	71	6	1	0	64	0	0
IV	42	4	0	0	38	0	0
I-IV	211	43	4	1	159	0	4

#### Table 5.

## Absolute cure rate.

Total number of cases (see Table 1, I)	219
Alive without recurrence five years after the beginning of treatment (see Table 4, col. 2, stages $I\!-\!IV)$	43
Absolute cure rate	19.6 %

#### Table 6.

## Relative cure rate.

	Number of patients treated (see Table 4, col. 1, I—IV)	Alive without recurrence (see Table 4, col. 2, I-IV)	Percentage
Stage I	31	15	48.4
Stage II	67	18	26.9
Stage III	71	6	8.5
Stage IV	42	4	9.5
Stages I—IV	211	43	20.4

3. 4.	Patients mined but	t treated <sup>1</sup> Stages IIV Stage I Stage II Stage III Stage IV	61 1,025 102 263 405 255	7 143 16 48 51 28	6 143 9 55 53 26	7 128 14 37 48 29	8 152 22 38 66 26	7         198         12         60         93         33	96 1,789 175 501 716 397
3,	atients F	treated <sup>1</sup> Stages I-IV Stage I	61 1,025 102	7 143 16	6 143 9	7 128 14	8 152 22	7 198 12	96 1,789 175
2.	Total number of patients examined	with a view to not treatment	1,086	150	149	135	160	205	1,885
1.	Year		$1914-25^{2}$	1926	1927	1928	1929	1930	Total

STATEMENT FOR 1914-1930 INCLUSIVE.

Table 7.

may be found on reference to the First Annual Report.

	nei
ó	atn
le	tre
Cab	10 :
	ults
	Res

		ter- ase od of	9 10	50 50	4	67				-	
		lise lise erio	L 00	62	4	60	3				
	7.	rom nt c a p vati	c a	25	4	5	5	9	-		
		rrei rrei ng ser	S I	50	60	60	3	9	10	-	
		Die cu oł	20	2	63	3	0	9	4	22	
	-	f	19	0	0					1010	
		of od c of	6	0	0	0					
		cht beri	1 S	0	0	0	0				~
	6.	sig a r vat	7 e a	0	0	0	0	0			le
		ing bsei	6	0	0	0	0	0	0		Tab
		I dur o	10	0	0	0	0	0	0	0	¢î
		00	10	312	12						lote
		urin erv	6	808	Ξ	90					ee r
		er d obs	s s	3 66	111	05 1	66				<sup>2</sup> S
	5.	anc of on	2 3	947	101	05 1	66	03			1
		of c riod ati	- N	33.7	81	)4 1(	96	)2 1(	10		py.
		be		4 78	3 1(	0 1(	5	810	6 14	9	lera
		Di a	20	17	10	10	6	0	13	1,30	ioth
•		of	10	00							rad
		ith ce iod	e s	00	-	-					of
		c w ren per atio	a r 8	1		_	6.2	_			ure
	4.	live ceur eerv	y e	6 1 9	04	0	-	0	.0		fail
	and the second second	re re obs			60	4		02	8	9	ter
	_	G	0	1	9					67	n af
		fof		7 16	52	672					lodr
		nout nou nou		2 17	1 20	<u>क</u>	বা				ed 1
	 	vitl rrer peri atio	a r	118	50	60	50	~			erat
		ive ecu erv	7 y e	194	8	30	33	4			obe
		AI I Ifter obs	9	206	30	34	26	44	47		ive
		<i>co</i>	20	216	35	36	29	46	50	412	s al
		of	÷								ient
	2.	ient ient	a.u.l	025	143	143	128	152	198	789	pat
		pat tre		L,						1,	ing
		4 3	C.	50							clud
	1.	ear		-25	26	22	28	29	30	otal	In
		Y		914	19	19	19	19.	19	E	Ţ
1			1	-							

## The Radiumhemmet, Stockholm

2
F
)
70
20
-
Sec
-
TO
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 02
-
- 20
_
-
pinter
-
-
1

1.1	results.
	10
	lon
	uati
	val
1	71

1		10	6.3	61.00					
6.	Relative cure rate at the end of	õ   6   7   8   9   years	21.1 20.9 18.9 17.8 17.3 1	24.5 21.0 18.9 18.9 18.9 1	25.2 23.8 23.8 23.8 23.1	22.7 20.3 19.5 18.8	30.3 28.9 28.3	25.3 23.7	23.0
5.	Absolute cure rate at the end of	5 6 7 8 9 10 years	19.9 19 0 17.9 16.8 16.3 15.4	23.3 20.0 18.0 18.0 18.0 17.3	24.2 22.8 22.8 22.8 22.1	21.5 19.3 18.5 17.8	28.8 27.5 26.9	24.4 22.9	6.12
4.	Alive without recurrence after a period of observ- ation of $^1$ (see Table 8, col. 3)	5 6 7 8 9 10 years	216(7) $206(7)$ $194(7)$ $182(7)$ $177(7)$ $167(6)$	35 30 27 27 27 26	36(1) $34(1)$ $34(1)$ $34(1)$ $34(1)$ $33(1)$	29 26 25 24	46 44 43	50(1) 47(1)	412
3.	Number of patients treated	col. 4)	1,025	143	143	128	152	198	1,789
2.	Total number of patients examined with a view	(see Table 7, col. 2)	1,086	150	149	135	160	205	1,885
1.	Year		1914-25 2	1926	1927	1928	1929	1930	Total

<sup>1</sup> The number of cases in which microscopical verification was not obtained is entered in brackets after the principal figures in column 4. A detailed description of these cases will be found in Acta Radiologica, Vol. VIII, 363, 1937, and in the First Annual Report. -<sup>2</sup> See note 2, page 89, Table 7.

## The Radiumhemmet, Stockholm

			Ta	ble 10	), Stag	е I.							
			Evc	iluatior	1 of rea	sults.							
Year	Number of patients treated in stage I	Alive 7	without	recurrei observat	ice after tion of	r a peri	od of	Rela	tive cu	re rate bserva	after a tion of	period	of
	(see Table 7, col. 4)	5	9	7 y e a	8 I S	6	10	ъ	9	V e	8 1 T S	6	10
1914-25 1	102	52	52	51	47	46	45	51.0	51.0	50.0	46.1	45.1	44.1
1926	16	10	œ	8	x	90	2	62.5	50.0	50.0	50.0	50.0	43.8
1927	9	10	ŝ	4	4	4							
1928	14	x	2	2	2								
1929	22	13	13	13				59.1	59.1	59.1			
1930	12	10	2										
Total	175	93						53.1					
<sup>1</sup> See note 2,	page 89, Table 7.												
			Ta	ble 10	, Stage	• II.							
			Eva	luation	et res	sults.							
Year	Number of patients treated in stage II	Alive '	without	recurre	nce afte tion of	r a per	od of	Rela	tive cu	re rate observa	after <i>s</i> tion of	l period	of
	(see Table 7, col. 4)	ĩ	9	7 Vea	r s	6	10	5	9	7 V 6 5	8 S L	6	10
1914-25 1	263	68	85	00	77	74	71	39.8	20.2	30 4	90.9	98.1	97.0
1926	48	13	13	9 1	11	11	1	27.1	27.1	22.9	22.9	22.9	22.9
1927	55	18	16	17 2	17	17		32.7	29.1	30.9	30.9	30.9	
1928	37	1.3	12	11	11			35.1	32.4	29.7	29.7		
1929	38	20	19	18				52.6	50.0	47.4			
1930	60	26	26					43.3	43.3				
								and the second second					

## The Radiumhemmet, Stockholm

91

-  $^2$  One patient considered hopeless at six years recovered at seven.

179

501

Total

<sup>1</sup> See note 2, page 89, Table 7.

35.7

III	ilts
96	rest
Sta	of
10,	tion
able	palua
<u> </u>	[7]

Year	Number of patients treated in stage III	Alive 7	without	recurrel	nce afte tion of	r a peri	od of	Relat	tive cu	re rate bservat	after a tion of	period	lof
	(see Table 7, col. 4)	2	9	7 yea	8 I S	6	10	2	9	7 y e 2	8 1 r s	6	10
1914-25 1	405	61	55	51	48	48	43	15.1	13.6	12.6	6.11	11.9	10.6
1926	51	11	00	2	2	1	2	21.6	15.7	13.7	13.7	13.7	13.7
1927	53	13	13	13	13	12		24.5	24.5	24.5	24.5	22.6	
1928	48	0	ĩŌ	2	4			10.4	10.4	10.4	8.3		
1929	66	11	10	10				16.7	15.2	15.2			
1930	93	16	13					17.2	14.0				
Total	716	117						16.3					
1 See note 9	nage 89 Table 7												

2.
Table
89,
page
62
note
45

	d of	10		3.1	3.6					
	perio	6		.0 .0	3.6	0.0				
	after a tion of	00 i	ΓS	3.9	3.6	0.0	6.9			
	e rate bservat	2 2	уеа	4.7	3.6	0.0	6.9	2.7		
	ive cur	9		0.9	3.6	0.0	6.9	2.7	9.1	
	Relat	5		0.0	3.6	0.0	10.3	2.7	9.1	5.8
	od of	10		00	1					
IV. ults.	a peri	6		6	1	.0				
Stage of res	ice after ion of	8	r s	10	1	0	03			_
le 10, luation	recurren bservat	2	уеа	12	Ţ	0	32	C3		
Tab Eva	ithout 1 0	9		14	1	0	63	63	က	
	Alive w	5		14	1	0	က	03	အ	23
	Number of patients treated in stage IV	(see Table 7, col. 4)		255	28	26	29	26	33	397
	Year			1914 - 25 <sup>1</sup>	1926	1927	1928	1929	1930	Total

<sup>1</sup> See note 2, page 89, Table 7.

The Radiumhemmet, Stockholm

i.

#### 7. SUMMARY.

This Annual Report, the second of the series, includes statements from nine radiotherapeutic centres.

The statements provided by these centres vary considerably in respect of the number of years to which they relate and of the number of patients treated yearly in each centre. When all the data included in them are combined, they furnish information concerning 6,570 patients suffering from cancer of the uterine cervix who were examined with a view to treatment; 5,672 (86.3 per cent.) of them were submitted to radiological treatment.

The following tabular statement shows the results obtained after the lapse of five years from the date of treatment:

Alive without recurrence	1,491 1	26.3 %
Alive with recurrence (including those oper-		
ated upon after failure of radiotherapy.).	102	1.8 %
Died of cancer	3,901	68.8 %
Died of intercurrent disease	113	2.0 %
Lost sight of	65	1.1 %
	5,672	100.0 %

The 5,672 patients treated were allocated to stages as follows:

Stage	I										607	10.7	%
Stage	Π										1,626	28.7	%
Stage	III										2,417	42.6	%
Stage	IV										1,020	18.0	%
Unclas	ssif	ieć	1								2	0.04	%
											5,672	100.0	%

## Results of treatment calculated for each of the four stages:

										Number of patients treated	Alive without recurrence	Relative cure rate
Stage I.										607	335	55.2 %
Stage II										1,626	590	36.3 %
Stage III										2,417	512	21.2 %
Stage IV										1,020	54	5.3 %
Unclassif	ied	1								2	0	0.0 %
				G	ra	nd	t	ot	al	5,672	1,491	26.3 %

<sup>1</sup> Includes 17 patients without microscopical verification.

The inverse relationship between the proportions of patients allocated to, and cured in the different stages will be noted.

Patients examined with a view to treatment, but not treated may be considered in two classes, viz: —

- (a) Not treated owing to some condition of the patient such as extent of the disease, general health, or other complication.
- (b) Not treated owing to some other reason such as lack of hospital accommodation, etc.

The data needed to divide the whole sample of untreated cases (898 in number) into these two classes have not been recorded; they are available, however, for 198 cases untreated during the years 1930 and 1931 and show that 29 (14.6  $^{0}/_{0}$ ) fell into group (*a*), 169 (85.4  $^{0}/_{0}$ ) fell into group (*b*).





Protective Measures against Dangers resulting from the Use of Radium, Röntgen and Ultra-Violet Rays, by Professor Hermann WINTZ, M. D., Ph. D., Director of the University Gynæcological Clinic and Röntgen Institute, Erlangen, with the assistance of Privatdozent Walther RUMP, Ph. D. (C. H. 1054.) (Ser. L. o. N. P. 1931. III. 9) 3/- \$0.75

\*

Number 3 of Volume III of the

Quarterly Bulletin of the Health Organisation contains –

## INTERNATIONAL STUDY OF THE STATISTICAL RESULTS OF RADIOLOGICAL TREATMENT OF CANCER OF THE UTERUS.

\* \*

In view of the abundance of material for publication, and the decision to publish henceforward in the Quarterly Bulletin of the Health Organisation the articles on infectious diseases hitherto published in the Epidemiological Report of the Health Section, arrangements have been made by the Health Organisation to issue their review at shorter intervals. It will, in future, appear every two months, under the title—

# BULLETIN OF THE HEALTH ORGANISATION

Libraries and individuals desirous of receiving promtly and regularly all documents issued by the

# HEALTH SECTION OF THE SECRETARIAT OF THE LEAGUE OF NATIONS

#### may take out an annual subscription for those publications.

This subscription covers the publications of the Health Organisation and the Epidemiological Intelligence Service of the League of Nations Secretariat. It includes:

#### BULLETIN OF THE HEALTH ORGANISATION:

The Bulletin of the Health Organisation, which from 1932 to 1936 was issued quartely, has since 1937 been published every two months—clear evidence, it would seem, of the interest taken in this periodical by medical and scientific circles. It not only deals with questions to which the Health Organisation devotes a large part of its time—such as epidemiology, malaria, biological standardisation, housing, nutrition, cancer, twberculosis and rural hygiene—but also contains articles by recognised authorities on the various aspects of hygiene and preventive medicine. It is therefore of value to the administrator, the serologist, the dietician, the hygienist and the clinician, who will find in the reports of the various technical commissions of the Health Organisation an international consensus of opinion on all the big problems in which they are interested.

#### WEEKLY EPIDEMIOLOGICAL RECORD:

This record, which appears every Thursday night and has from 12 to 16 pages, contains telegraphic information received during the week regarding plague, cholera, yellow fever, smallpox, typlus and any other epidemic diseases the spread of which, at the moment, constitutes an international menace. The information is analysed and illustrated by graphs and maps when warranted. The Weekly Record contains the official weekly communiqué of the Office international d'Hygiène publique in Paris-*i.e.*, notifications made under the International Sanitary Convention of 1926.

#### **EPIDEMIOLOGICAL REPORT:**

The Service of Epidemiological Intelligence and Public Health Statistics, Ilealth Section of the Secretariat of the League of Nations, receive current official reports on the prevalence of notifiable diseases from all countries where such information is available. This information has for years been published in the *Epidemiological Reports*.

## ANNUAL EPIDEMIOLOGICAL REPORT (CORRECTED STATISTICS OF NOTIFIABLE DISEASES):

An annual reference-book, reproducing, with additions and corrections, the statistical returns from the monthly reports, together with retrospective tables of mortality from infectious diseases and general mortality tables according to age and sex, etc.

The particulars contained in the last-named three publications relate to about 72 % of the world's population.

Subscribers receive, in addition, any other publications that the Health Section may issue during the year—e.g., in 1935 and 1936, studies on *urban* housing in France, Italy, the Netherlands and Poland.

Price of the subscription, post free . . . . . £2 10s. \$12.50