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REPORT OF THE MEDICAL OFFICER OF HEALTH  
FOR THE YEAR ENDING DECEMBER, 1900.

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GENTLEMEN,

I have the honour of submitting my Fourth Annual Report.

POPULATION.

The population in the Wolstanton Rural District according to the census of 1891 numbered 32,773, and calculating the rate of increase to be in the same ratio as in the ten years 1881—1891, the population in the middle of 1900 would amount to 34,410.

The acreage of the district is somewhat less this year owing to part of Chell having been annexed to Tunstall; the acreage of the district is now 10,392.

BIRTHS.

The births registered during the year numbered 1344. Of these 674 were males and 670 were females, and represent an annual rate of increase of 38·8 per 1,000 living. Compared with the year 1899 the births show an increase of 9, and the difference between the birth rates is ·1 per 1,000 increase for 1900.

DEATHS.

776 Deaths were registered in the district during the year. Of these 65 were of persons not belonging to the district, and 9 deaths occurred outside the district among persons belonging thereto. The total number of deaths occurring among persons belonging to the district numbered 720, giving an annual rate of mortality of 20·92 per 1,000 of the estimated population. The death rate for the district in 1899 was 18·5 per 1,000; this year the rate has increased by 2·42 per 1,000.



#### INFANTILE MORTALITY.


The number of deaths in infants under one year was 218, giving the infantile mortality rate of 162.2 per 1,000 born. This is a decrease on the rate recorded for the preceding year by 19.3 per 1,000.

#### UNCERTIFIED DEATHS.

21 Deaths occurred in persons not attended by a medical man. These deaths were recorded as "not certified."

The supposed causes of death were as follows :—

Infantile Convulsions	...	13
Premature Births	..	5
Epilepsy	.. ...	1
Measles	... ..	2
		—
		21
		—



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The following table will shew the number of deaths in each year for the last ten years  
from the chief Zymotic diseases, as well as the various death-rates.

ZYMOTIC DISEASES, ETC.—		1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
Smallpox	...	...	2	3	0	0	0	0	0	0	0
Measles	...	...	0	37	0	8	38	31	61	0	36
Scarlet Fever	...	...	16	4	8	10	9	7	18	17	23
Diphtheria	...	...	0	8	3	9	5	8	8	10	40
Whooping-cough	...	...	3	43	1	14	11	16	9	8	6
Fevers of a	} Typhus continued character	...	0	1	0	0	0	6	0	0	0
Typhoid		...	13	4	9	11	4	5	4	11	13
Doubtful		...	1	0	2	0	0	0	0	0	0
Diarrhoea	...	...	22	13	27	16	25	31	46	37	26
Deaths from Zymotic diseases	...	96	75	90	60	62	88	106	108	102	148
Total Deaths for each year	...	722	721	646	584	659	593	712	709	698	720
Death-rate of Zymotic diseases	...	2.9	2.3	2.8	1.8	1.91	2.5	3.1	3.1	2.9	4.3
General Death-rate	...	21.8	22.6	23.1	18.1	20.3	17.3	21.3	20.17	20.2	20.92
Death-rate of Infants under one year per 1,000 born	...	166	169	131	141	189	157	181	184	181.5	162.2





## INFECTIOUS DISEASES.

I regret to say that the number of cases of infectious diseases notified during the year has been very large, 646 cases in all have been notified during 1900.

**SCARLET FEVER :—**This disease has been very prevalent during the year, 369 cases having been notified as compared with 362 during the previous year. Of these cases I was able to remove 47 cases to the Sanatorium; I should have liked to remove more cases, but for lack of accommodation I was unable to do so; I am glad, however, to state that in most of the cases removed the parents were willing, and in many cases even desirous that the children should be removed to the isolation hospital. This tends to shew that the prejudice against isolation hospitals is fast dying out. The districts affected were as follows :—

Goldenhill	98	Wolstanton	39
Chell	63	Chesterton	36
Newchapel	30	Silverdale	74
Milton	28	Workhouse	1

Of the total number of cases notified 23 proved fatal, or 6.2 per cent. In all cases where removal to the isolation hospital was found impossible, thorough isolation at home was insisted upon, and as in previous years frequent visits have been paid both by the Sanitary Inspector and myself to see that the instructions given had been carried out.

**ENTERIC FEVER :—**Enteric Fever has, I am glad to say, been a little less prevalent than in the previous year, 55 cases have been notified as against 59 cases in the previous year. The districts affected were as follows :—

Goldenhill	2	Wolstanton	10
Chell	2	Chesterton	27
Newchapel	4	Silverdale	7
Milton	2	Workhouse	1

Of the total number of cases notified 16 cases proved fatal, or 29 per cent. ; of the 55 cases notified 17 cases were removed to the Sanatorium, or 30 per cent.



Intermittent Fever

I should say that the number of cases of this disease has been increasing of late years, and is now more common than ever.

The disease is characterized by the following symptoms: a chill, followed by a fever, and then a profuse perspiration. The chill is usually accompanied by a feeling of coldness, and the fever by a feeling of heat. The perspiration is usually profuse, and is accompanied by a feeling of refreshment. The disease is usually accompanied by a loss of appetite, and a general feeling of weakness.

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MEMBRANOUS CROUP :—8 Cases of Membranous Croup have been notified during the year as compared with 7 during the previous year.

ERYSIPELAS :—33 Cases of Erysipelas have been notified during the year. This is a decrease on the previous year, when 52 cases were notified. A large number of the cases notified were very mild cases, and in no case was there a fatal result.

DIPHTHERIA :—In the Wolstanton Rural District, as in the adjoining districts, Diphtheria has, I regret to say, been very prevalent during the past year. In all, 175 cases have been notified as against 58 in the previous year. In the Wolstanton division of the district the disease has been present in Epidemic form. In this part 99 cases in all have been notified, 12 of which were removed to the Sanatorium. The other parts of the district affected were :—

Goldenhill	16	Chesterton	4
Chell	6	Silverdale	10
Newchapel	11	Milton	27
Workhouse	2		

Of the total number of cases notified 40 cases proved fatal, or 22·2 per cent. Many of the cases notified were of a most virulent type. Death was due in a good number of the cases by the neglect of prompt medical attendance. The mortality would, in my opinion, have been much greater but for the use of Antitoxin, which I am glad to say has been used very much more this year than in previous years by the medical men in the district. The results from the use of Antitoxin proves beyond a doubt the efficacy of the remedy. The spreading of the disease in families was also prevented in many cases by the injection of Antitoxin as a prophylactic in other members of the family. A good per centage of the deaths from Diphtheria were due secondarily to Diphtheritic Paralysis.

Memorandum of Understanding  
between the Government of the United States  
and the Government of the Republic of China

The Government of the United States and the Government of the Republic of China have agreed to enter into a Memorandum of Understanding concerning the exchange of information and the cooperation in the field of scientific and technical research.

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Every case reported was visited, and strict precaution taken to prevent the spread of the disease. The houses were thoroughly disinfected by the Sanitary Inspectors, and where any sanitary defect existed, this was remedied as soon as possible. In some of the cases visited by the Inspector and myself, leakage was found in the drains which was remedied. The spread of the disease was also greatly accelerated, in my opinion, by the indiscreet visitation of people to houses where disease existed. In a number of the cases notified to me I found on visiting the house, neighbours or friends present, even in the sick-room, their presence there being quite unnecessary. In one particular case I found on visiting the house the child, a boy of about 4, lying on a couch in the kitchen in a dying condition, and four or five neighbours and children present in the room. Medical aid in this case had only been called in an hour or so before my visit, the child being then past medical aid. Three other cases were traced from this case, no doubt as a result from the above indiscreet visitation. Both the Inspectors and myself adopted the most stringent measures in our powers to secure thorough isolation. A number of cases also occurred, no doubt, from the ignorance of many people as to the nature of the disease. I refer more now to cases occurring in the same family. In one or two instances four or five cases occurred in members of the same family. Notices were issued throughout the district, giving instructions for the prevention of infectious disease.

**MEASLES :—**Measles have been rather prevalent during the year, especially in some parts of the district, *e.g.* at Cross Heath, where it was necessary to advise the closing of the Infant Department of the National Schools for a few weeks. The number of deaths from Measles and complications numbered 36.

No cases of Typhus Fever, Continued Fever, Small-pox, or Cholera occurred in the district.

81 Cases of Infectious disease have been removed to the Sanatorium, as against 83 in the previous year. This represents 12.5 per cent. of the total cases notified.



I should again respectfully bring before the Council the need of further accommodation at the Sanatorium, especially for Diphtheritic cases.

ARSENICAL POISONING :—Owing to numerous cases of Arsenical Poisoning having occurred in the country, notices were sent to all the medical men practising in the Wolstanton Rural District, requesting them to notify such cases to the Sanitary Authority. Samples of Beer were also taken for analysis. No cases, however, were notified to me.

PLAGUE :—No case of Plague occurred in the district.

VACCINATION :—956 successful Vaccinations were recorded during 1900 in the Rural part of the Wolstanton and Burslem Union, viz :—

Wolstanton Sub-District,	590
Tunstall            ,,	270
Burslem             ,,	96









The following table will shew the number of cases notified during each year from each disease  
for the last ten years :—

	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
Small Pox ...	0	2	21	1	0	0	0	0	0	0
Scarlet Fever ...	399	91	113	336	261	193	87	183	362	369
Typhoid Fever...	35	17	46	49	44	24	53	68	59	55
Continued Fever ..	10	10	11	12	0	2	2	0	2	0
Diphtheria ...	3	20	23	17	24	25	15	24	58	175
Membranous Croup ...	10	6	3	3	12	22	9	2	7	8
Puerperal Fever ...	3	1	5	3	3	10	6	4	5	6
Erysipelas ...	35	30	51	44	58	62	53	24	52	33
	495	172	276	465	402	338	225	305	545	646



WATER SUPPLY :—The Water Supply in the district has been good and abundant during the year.

DRAINAGE :—No Drainage work of any importance has been carried out during the year. The bake-houses and slaughter-houses have been regularly inspected during the year.

The removal of night-soil and ashes has only been performed in a fairly satisfactory manner during the year; greater attention on the part of the Contractors ought to be paid to prompt removal, and also to the time specified for such removal in their contract.

Overcrowding in dwelling-houses has been reported in a few cases, and steps have been taken to remedy this in every case.

I enclose Tables 1, 2, 3 and 4, and a Summary of sanitary work done during the year.

I have the honour to be, GENTLEMEN,

Your obedient Servant,

T. MCKAY YOUNGSON,

M.B., C.M., (Aberd.)

Medical Officer of Health.

Ivy House, Longport, Staffs.,

MARCH 12th, 1901.



TABLE I.—FOR WHOLE DISTRICT.

Year.	Population estimated to Middle of each Year.	BIRTHS.		DEATHS UNDER ONE YEAR OF AGE.		DEATHS AT ALL AGES. TOTAL.		DEATHS IN PUBLIC INSTITUTIONS.	Deaths of Non-residents registered in District.	Deaths of Residents registered beyond District.	DEATHS AT ALL AGES. NETT.	
		Number.	*Rate.	Number.	Rate per 1,000 Births registered.	Number.	*Rate.				Number.	*Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13
1890	36311	1198	32.9	195	161	665	18.3					
1891	32773	1280	38.7	213	166	722	21.8					
1892	32994	1327	41.6	225	169	721	22.6					
1893	33171	1380	43.0	181	131	646	19.1					
1894	33348	1270	39.3	187	147	584	18.1					
1895	33525	1135	34.3	214	196	659	19.9					
1896	33702	1312	38.4	206	157	593	17.3					
1897	33879	1321	39.02	239	181.6	712	21.3					
1898	34056	1354	39.7	250	184.6	709	20.8					
1899	34233	1335	38.7	238	181.5	698	20.2					
Averages for years 1890-1891	33799	1291	38.56	214	167.4	670	19.9					
1900	34410	1344	39.05	218	162.2	776	22.55	103	65	9	720	20.92

\* Rates calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water)...	10392	Total population at all ages ...	32773	At Census of 1891.
		Number of inhabited houses ...	7695	
		Average No. of persons per house ...	5	

TABLE II.

NAMES OF LOCALITIES.	YEAR.	Population estimated to middle of each Year.	Births registered	Deaths at all Ages.	Deaths under 1 year
WOLSTANTON RURAL	1890	36311	1198	665	195
	1891	32773	1280	722	213
	1892	32994	1327	721	225
	1893	33171	1380	646	181
	1894	33348	1270	584	187
	1895	33525	1135	659	214
	1896	33702	1312	593	206
	1897	33819	1321	712	239
	1898	34056	1354	709	250
	1899	34233	1335	698	238
Averages of Years 1890 to 1899		33799	1291	670	214
GOLDENHILL	1900	34410	1344	776	218
	1900	11409	439	211	81
	1900	21001	789	458	116
WOLSTANTON	1900	2000	116	51	21
	1900	2000	116	51	21
CHELL	1900	2000	116	51	21
	1900	2000	116	51	21
NEWCHAPEL	1900	2000	116	51	21
	1900	2000	116	51	21
WOLSTANTON	1900	2000	116	51	21
	1900	2000	116	51	21
CHESTERTON	1900	2000	116	51	21
	1900	2000	116	51	21
SILVERDALE	1900	2000	116	51	21
	1900	2000	116	51	21
	1900	2000	116	51	21
	1900	2000	116	51	21
	1900	2000	116	51	21
	1900	2000	116	51	21
	1900	2000	116	51	21
	1900	2000	116	51	21
	1900	2000	116	51	21
	1900	2000	116	51	21
MILTON	1900	2000	116	51	21
	1900	2000	116	51	21

TABLE III.—CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1900.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.						TOTAL CASES NOTIFIED IN EACH LOCALITY.							No. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.										
	At all Ages.	Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards	Goldenhill.	Chell.	Newchapel.	Wolstanton.	Chesterton.	Silverdale.	Milton.	Workhouse.	Goldenhill.	Chell.	Newchapel.	Wolstanton.	Chesterton.	Silverdale.	Milton.	Workhouse.	
Small-pox...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cholera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Diphtheria ...	175	1	45	79	28	22	...	16	6	11	99	4	10	27	2	1	...	...	...	12	1	...	3	...
Membranous Group ...	8	1	4	3	...	...	...	2	1	1	4	...	...	...	...	...	...	...	...	...	...	...	...	
Erysipelas ...	33	2	...	2	5	24	...	5	1	3	6	6	9	3	...	...	...	...	...	...	...	...	...	
Scarlet Fever ...	369	14	143	181	19	12	...	98	63	30	39	36	74	28	1	6	6	1	4	6	22	2	...	
Typhus Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Enteric Fever ...	55	...	4	12	17	22	...	2	2	4	10	27	7	2	1	...	...	1	7	6	3	...	...	
Relapsing Fever...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Continued Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Puerperal Fever ...	6	...	...	...	3	3	...	...	1	...	2	3	...	...	...	...	...	...	...	...	...	...	...	
Plague ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals ...	646	18	196	277	72	83	...	123	74	49	160	76	100	60	4	7	6	2	23	13	25	5	...	



TABLE IV.—CAUSES OF, AND AGES AT, DEATH DURING YEAR 1900.

CAUSES OF DEATH.	DEATHS IN WHOLE DISTRICT AT SUBJOINED AGES.							DEATHS IN LOCALITIES (AT ALL AGES).							Deaths in Public Institutions.
	All ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Milton.	Goldenhill.	Chell.	Newchapel.	Wolstanton.	Chesterton.	Silverdale.	
Small-pox ... ..	36	10	24	2	...	...	...	2	11	1	1	8	6	7	...
Measles ... ..	23	...	17	4	2	...	...	1	1	1	...	5	8	7	3
Scarlet Fever ... ..	6	3	3	...	...	...	...	...	1	...	2	...	3	...	...
Whooping Cough ... ..	40	2	22	14	1	1	...	4	4	...	2	24	2	4	3
Diphtheria and Membranous Croup	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...
Croup ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Typhus Fever ... ..	...	...	...	...	...	8	...	...	...	...	1	4	10	1	4
Enteric Fever ... ..	16	...	3	3	2	...	...	...	...	...	...	...	2	...	...
Other Continued Fever ... ..	...	...	...	...	...	4	4	...	...	1	1	4	2	2	...
Epidemic Influenza...	10	...	1	...	1	...	...	...	...	...	...	...	...	...	...
Cholera ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague ... ..	...	...	...	...	...	2	2	...	5	3	1	...	2	9	...
Diarrhoea ... ..	26	20	2	...	...	5	...	1	1	1	1	5	2	2	1
Enteritis ... ..	27	20	2	...	...	...	...	2	...	...	...	7	13	...	1
Puerperal Fever ... ..	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...
Erysipelas ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Septic Diseases ... ..	2	...	...	...	...	1	1	1	1	...	...	...	...	...	1
Phthisis ... ..	23	1	1	3	3	15	...	2	3	4	2	4	4	4	1
Other Tubercular Diseases ... ..	20	11	6	1	2	19	10	5	1	1	3	4	1	5	...
Cancer, Malignant Disease ... ..	29	...	...	...	...	25	15	4	4	11	5	10	8	2	...
Bronchitis ... ..	65	14	11	...	...	8	7	6	9	5	6	8	6	20	4
Pneumonia ... ..	62	18	21	4	4	...	3	...	5	1	...	...	1	12	...
Pleurisy ... ..	4	...	...	...	...	1	2	1	...	...	1	...	...	2	...
Other diseases of respiratory organs	5	1	1	1	...	...	...	...	1	...	...	...	...	3	...
Alcoholism, Cirrhosis of Liver	3	...	...	...	...	3	...	...	1	...	...	...	...	2	...
Veneral Diseases ... ..	1	1	...	...	...	...	...	...	...	1	...	...	...	...	1
Premature Birth ... ..	25	25	...	...	...	5	...	1	1	6	2	7	5	3	...
Diseases & accidents of Parturition	5	...	...	...	...	...	...	...	...	...	...	1	4	...	...
Heart Diseases ... ..	43	2	...	2	3	25	11	1	4	1	7	8	14	8	3
Accidents ... ..	14	1	4	2	...	4	3	2	2	2	1	1	1	4	4
Suicides ... ..	3	...	...	...	...	3	...	1	1	...	...	2	...	...	...
All other causes ... ..	230	89	27	6	10	31	67	12	30	21	24	40	37	66	21
All causes ... ..	720	218	146	42	29	160	125	51	85	63	63	148	147	163	47

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