



SME/78.6

ENGLISH ONLY

INDEXED

METHODOLOGY FOR PREPARATION OF APPROPRIATE DATA FOR THE 31 COUNTRIES REMAINING TO BE CERTIFIED FREE OF SMALLPOX 1

Preamble

Nearly seven months have elapsed with reported nil incidence of smallpox throughout the world and the global programme has now been reoriented to conduct the certification of smallpox eradication. Since 1973, 46 countries in South America, Asia and Africa have already been certified and an additional 31 countries remain to be certified for eradication of smallpox.

Different methodologies have been used for these certification activities in the 46 countries, considering the epidemiology of smallpox, the type of eradication programme developed, surveillance sensitivities and resources available at country level. Based on these experiences this document is intended to present a summary of what method can be employed when certification activities take place in the remaining 31 countries.

The methods proposed have already been partly implemented in some countries. Also, in some countries the methods are being modified to provide further convincing evidence of the freedom from the disease. It is believed that if the methods described here are properly implemented, the results will meet with the requirements of the Global Commission.

The 31 countries

In the "Recommendations of the Consultation on Worldwide Certification of Smallpox Eradication" the 31 countries concerned were divided into three categories as follows:

Group I: Countries requiring formal certification by an international commission

Ethiopia Angola South Africa
Kenya Botswana Namibia
Somalia Lesotho Southern Rhodesia
Democratic Yemen Swaziland
Djibouti Sudan
Yemen Uganda

Group II: Countries requiring visits by Global Commission members

Iran Syria China Iraq Thailand

Group III: Countries required to submit detailed reports

Democratic Kampuchea

Bahrain

Qatar

Laos

Kuwait

Saudi Arabia

Viet Nam

Oman

United Arab Emirates

Taiwan

Madagascar

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Prepared by SME unit, headquarters, Geneva.

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Preparation for certification

To assist in the preparation of reports appropriate to the varying requirements for certification and to the different past epidemiological situations and current surveillance systems, three basic methods are suggested as follows:

Method A: Compilation of "Minimum Information" report

All countries will be asked to submit a report containing the following minimum information (detailed in Annex 1):

Basic demographic data
Administrative units
Health system
Reporting system for notifiable communicable diseases
Smallpox data
Smallpox vaccination data
Chickenpox data
Laboratory data (see also Annex 4)

Method B: "Minimum Information" report

In addition: Pock mark surveys in priority areas (Annex 2) and special surveys in certain instances (Fig. 1).

Method C: "Minimum Information" reports

In addition: Extensive field surveys as outlined in Annex 3.

The methodology applicable to each country is indicated in Fig. 1. It is noted that in Ethiopia, Kenya, Somalia and Sudan special programmes are in progress which will provide more detailed information than the methods outlined above.

Points to be emphasized

In all countries particular attention should be paid to:

- investigation of chickenpox deaths
- collection of laboratory specimens

according to the indications outlined in the annexes.

It is likely that particular attention will be paid to pock mark surveys in countries where variola major was once prevalent and to chickenpox surveys in other countries.

FIG. 1. METHODOLOGY APPLICABLE AND FIELD ACTIVITIES FOR THE 31 COUNTRIES PREPARING FOR CERTIFICATION OF SMALLPOX ERADICATION

Field Activities/Surveys								
Method -ology		Pock Mark	Surveys	Specimen Collection		Smallpox Enquiry Surveys		
applicabl	Country.	Selected Sites	Priority Areas Only	Selected Chicken	Suspected Smallpox Cases C	Selected Health Units	Selected Schools	Other Local
в С			Only —	-pox Cases -	Cases —	Units		-Itles
	GROUP I							
	Angola Botswana Lesotho Swaziland Namibia S. Rhodesia Uganda							
	Sudan Ethiopia Kenya Somalia	FULL	SCALE SM	IALLPOX EN	RADICATION .	PROGRAMME:	S	
	Dem. Yemen Djibouti Yemen		<u>d</u>			e]	<u>d</u>	£
	GROUP II							
+	China		7	I O BE DETER	LRMINED		-	
	Iran Iraq Syria Thailand							
	GROUP III							
	Dem. Kampuchea Laos Taiwan Vietnam Madagascar Bahrain Kuwait Oman Qatar Saudi Arabia							
	Oman Qatar							

 $[\]frac{a}{b} \text{ as defined in Annex 2} \qquad \qquad \frac{d}{e} \text{ including } \underline{all} \text{ schools}$ $c \qquad \text{from all chickenpox outbreaks} \qquad \underline{f} \text{ border posts}$

from all chickenpox outbreaks

as defined in Annex 1, explanatory note H

ANNEX 1

MINIMUM INFORMATION REPORT

(required from all countries)

BASIC DEMOGRAPHIC DATA Α.

Population (year) 1.

2. Area

- 3. Population density
- 4. Urban population (% of total)
- 5. Rural population (% of total)
- Nomadic population (% of total) 6.
- 7. Total number of towns and villages

ADMINISTRATIVE UNITS В.

Table, for example:

Type of division/subdivision*	Total number in country

List by name only the largest divisions and indicate on a map.

С. HEALTH SYSTEM

Number of urban hospitals:

clinics:

2. Number of rural hospitals: clinics:

3. Number of infectious diseases hospitals:

wards:

Health system structure relevant to communicable disease control

Diagram, for example:

	Responsible healt	h officer or health worker
Level	Designation	Total number in country
National Provincial District etc.		

REPORTING SYSTEM FOR NOTIFIABLE COMMUNICABLE DISEASES D.

To include: Brief description of reporting system at each level.

- frequency of reporting
- regularity of reporting
- whether chickenpox (cases and/or deaths) are notified
- whether reports are sent even if no disease is reported (i.e. "NIL" reports)
- what action is taken in the case of suspected smallpox

E. SMALLPOX DATA

- 1. Cases and deaths reported by year 1950-1978.
- 2. Brief description of the last major epidemic. To include:
 - period
 - number of cases/deaths
 - locations which were heavily infected
- 3. Detailed description of the last smallpox outbreak/focus. To include:
 - period
 - number of cases/deaths
 - source of infection (importation)
 - exact location (with map if possible)
 - measures taken
- 4. Details of all reported suspected smallpox cases since the last outbreak. To include:
 - dates
 - locations
 - field investigations
 - final diagnoses
 - laboratory test results

F. SMALLPOX VACCINATION DATA

- 1. Brief description of vaccination system employed since the last reported smallpox.
- 2. Vaccinations performed 1950-1978.

Table, for example:

Year	Primary vaccinations	Revaccinations
	1	1

3. Vaccination coverage assessment.

Any existing data on percentage vaccination coverage of the population as assessed by vaccination scar survey.

G. CHICKENPOX DATA

- 1. Reported chickenpox cases and deaths 1976-1978 Table, by month if possible.
- 2. Summary of investigation findings for all chickenpox deaths 1976-1978.

H. LABORATORY DATA

Summary of laboratory investigation for all specimens tested for pox viruses 1976-1978.

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Annex 1

EXPLANATORY NOTES

SECTIONS A-C: Self-explanatory

SECTION D: Regularity of reporting may be expressed as the percentage of reports

received within a specified period from the expected date of receipt.

SECTIONS E and F: As much data as is readily available should be compiled.

SECTION F: Item 3: If no recent data available on vaccination coverage it will be

proposed that sample surveys are conducted. Results should be recorded

by age-group (e.g. 0-4, 5-19, 20+).

SECTION G: Item 2: If not already available full investigation reports of all chicken-

pox deaths 1976-1978 should be prepared.

SECTION H: It is recommended that in the coming months specimens for laboratory testing

are taken from patients with chickenpox or other rash with fever in which:

(a) the patient has no smallpox vaccination scar

(b) there has been a death in the associated outbreak

(c) there is any doubt at all concerning the differentiation from smallpox.

SMALLPOX POCK MARK SURVEYS IN PRIORITY AREAS

This type of survey is useful for assessing the extent of past outbreaks or to confirm the absence of smallpox during recent years.

In the priority areas selected, a significant sample of children should be examined for facial pock marks. If any child is found with five or more concentric depressed facial scars of greater than 1 mm diameter at the base, it must be considered suggestive of smallpox; a full history and investigation are indicated. If initial inquiries reveal that a particular case can be attributed to a known smallpox outbreak only the place of attack and the year need be recorded. Any pock marked person claiming that the pock marks were caused by a disease occurring since the last known smallpox or in a location not previously recognized as the site of a smallpox outbreak, requires full investigation.

Areas for pock mark surveys in order of priority are:

- the area surrounding the last known smallpox outbreak
- the sites of reported chickenpox deaths
- the sites of reported suspected smallpox cases
- remote and border areas.

Attached are the three forms (PMS1,2,3) which are suggested for use in conducting pock mark surveys. Countries already utilizing survey forms different from those attached should, however, continue to do so.

These countries include those in the African Region and Iran.

Annex	2
VIIII CV	4

POCK MARK SURVEY - FIELD WORK SHEET

Name of loca	lity:				Date:	
	(school,	clinic, market,	village,	etc.)	•	

Age-group	Total persons examinęd		Pock marked pe Place and year One box for on	of attack ^a		Place Year
O-X ^b years	!					
						Total
						-
Over X years						
						Total
Summary	Summary Pock marked persons by year of attack					
		1978	1977	1976	1975	1974
All ages	·	1973	1972	1971	Before 1971	Total

 $[\]frac{a}{}$ All cases in which pock marks have resulted from disease occurring since the last known smallpox in the country must be fully investigated (Form PMS3).

 $[\]frac{b}{}$ Where X = the number of years since the last known smallpox in the country.

 $[\]frac{c}{}$ To be adapted for countries where the last smallpox occurred before 1971.

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Annex 2

Form PMS2

POCK MARK SURVEY - SUMMARY SHEET

Locality	Total	Pock marked	Pock marked persons all ages By year of smallpox attack									
Locality	persons examined	children O-6 years	1978	1977	1976	1975	1974	1973	1972	1971	Before 1971	Total
		į										
			ļ.									
									į			
Total												

Note: To be adapted for countries where the last smallpox occurred before 1971.

Annex 2

Form PMS3

INVESTIGATION OF PERSON WITH FACIAL POCK MARKS

This form should be filled in for the follow:	ing:					
- Any child O-X ^a years old (identified of Any older person whose facial pock man					ring sir	ıce
- Any person whose facial pock marks has locality not previously recognized a	ve resulted as the site	from a disc of a small	ease in pox outb	reak.	c but	at a
Information obtained from:						
Hospital Dispensary	Clinic	So	choo1		Other	
Specify name:						
Name of person under investigation:				·		
Name of father:		Name of mo	ther: _			
Address: Village:		District:	···			
Region/province:						
Age:		Sex:	Male		Female	
Month (if possible date)/year of onset of rash:		Diagnosis		the time	of illr	ness:
Locality of disease onset:			·			
Number of facial pock marks:	5-10		10-20		More than 20	
Vaccination history:	No		If "yes"	, when?		
Vaccination scar: Yes	No					
Rash - distributed more face and limbs:	Yes		No			
Were there any deaths from similar disease in the locality?	Yes		No			
	If "y	es", how ma	ny?			
Team's diagnosis: Smallpox	Other	S	pecify:			
Was a specimen taken for laboratory diagnosis: Yes	No	s	ent to:	<u> </u>		
Date: Name of Team Leader	·	S	ignature	è	······································	
Note: Further investigation including source				ed if te	eam's	
observation indicates smallpox or sma	ilipox stron	igiv s uspect	ed.			

 $[\]frac{a}{x}$ Where X = the number of years since the last known smallpox in the country.

 $[\]frac{b}{}$ The month and year of the last known smallpox.

 $[\]frac{c}{}$ Year of last known smallpox.

GUIDELINES FOR COUNTRIES REQUIRED TO CONDUCT EXTENSIVE FIELD SURVEYS PRIOR TO CERTIFICATION OF SMALLPOX ERADICATION

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This method of preparation for certification has been used in western, central and, more recently, south-east African countries. It is proposed for use in those countries of the African Region remaining to be certified free of smallpox except Ethiopia, Somalia, Kenya and Sudan where full-scale smallpox eradication or surveillance programmes are still in operation.

1. CHICKENPOX SURVEY

This will consist of regular collection of scabs from patients clinically diagnosed as chickenpox. It will be essential that all fixed health units and, whenever feasible, mobile teams must participate in this collection of specimens. This programme should become operational as soon as possible.

Cases from which to collect specimens

- One single specimen from each chickenpox outbreak whether death has occurred or not.
- Chickenpox cases without a vaccination scar.
- All hospitalized chickenpox cases.

For details of specimen collection technique and dispatch see Annex 4.

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Annex 3

2. FIELD SURVEYS

2.1 Selection of localities

Areas in which field surveys will be conducted by special mobile teams will be determined as soon as possible on the basis of epidemiological and demographic criteria.

- 2.1.1 <u>Special investigations</u>: These will be conducted in areas and localities where the risk of hidden smallpox foci is greatest; this should include localities:
 - notifying the last two smallpox outbreaks;
 - reporting suspected smallpox cases since the last known smallpox outbreak;
 - reporting deaths due to chickenpox from the beginning of 1975 to date;
 - with poor health coverage and communication facilities, bordering countries which have been recently endemic or with extensive population movements across the border.

The objective of these special investigations is to determine whether or not reported outbreaks were due to smallpox infections and/or if some cases might have gone undetected. These investigations will include visits to the affected households and families to exclude any evidence of undetected smallpox transmission. Special attention should be given to the interview of the family, examination for facial pock marks and vaccination scars, and to outbreaks or deaths due to a vesicular disease. If justified on epidemiological grounds, neighbouring households and families, primary schools and markets may be visited. Special brief reports should be prepared.

2.1.2 <u>Determination of localities based on population size</u>: Persistence of undetected smallpox foci in small and remote villages for several years is unlikely. Despite the fact that cities, towns and big villages may not be truly representative of the entire population, it is probable that continuing smallpox transmission in remote areas, if it exists, will eventually be reflected in larger villages.

Thus facial pock mark and health unit inquiry surveys will be conducted in the primary schools, health units and other places within the larger villages, towns and cities (selected in collaboration with WHO staff where appropriate). It will not be difficult to determine cities and towns (tentatively defined as localities with over 10 000 population). To select major villages, the following procedures are suggested:

- (i) collect as much information as possible on individual localities from all available demographic data, including census reports;
- (ii) prepare a table as indicated below (as an example, the table has been completed for a country with a population of five million).

With regard to the first column, data available or collected may not provide the same population range for individual localities, in which case the breakdown should be adjusted according to the particular situation. The purpose of preparing this table is to observe how many localities have a population of more than a certain size - say 1000, 2000 or 5000 - and are thus determined as "major villages".

Population of locality	Number of localities	Total population of localities	Percentage of country's population
More than 10 000	14	549 001	11
8 000-9 999	6	53 000	1
6 000-7 999	10	69 000	1.5
4 000-5 999	25	125 000	2.5
2 000-3 999	68	204 000	4
1 000-1 999	212	350 000	7
Less than 1 000	36 804	3 650 000	73
Total	37 139	5 000 000	100

- (iii) Determine which minimum population size will be selected to cover at least 25-30% of the total population. It must be noted that in selected localities only primary schools, health units and other places (e.g. kindergartens, markets, festivals, nomad groups, etc.) will be visited by the teams and not the total population of selected localities. (In the above example if localities with a population of more than 1000 are selected, they will represent about 27% of the entire population and 335 localities will be visited.)
 - (iv) Plot these localities on a map. If no locality is selected in some large administrative areas, it will be necessary to include one or two principal villages in such areas, irrespective of size.
 - (v) Select a few localities situated in remote rural areas of each major administrative division.

2.2 Planning of surveys

The size, composition and the number of survey teams required for the survey depend on several factors - size of the country, population and its density, population movement, distribution of health units and communication facilities. In addition, epidemiological criteria must be taken into account. It is extremely important that survey teams are trained (with WHO collaboration where appropriate) as soon as possible. Such training should include:

- (a) Complete background information on the status of smallpox eradication in the country including details of last outbreaks, suspected cases and deaths due to chickenpox. A list of selected localities for special investigations and field surveys should be made available.
- (b) Distinguishing features of facial pock marks caused by smallpox infection and scars due to other conditions should be clarified. Only persons with facial pock marks caused by or strongly suspected to be due to smallpox infection will be investigated and documented. Use of WHO cards (Pictorial Guide and photos of pock marks) should be made.
- (c) Epidemiological investigations of suspected cases including collection of specimens: isolation and containment should be reviewed with the team.
- (d) Preparation of itinerary for field visits, recording, reporting and presentation of data and of regular reports.

Annex 3

Based on the list of selected localities, the teams must be assisted in the preparation of their itinerary (Form 1). The teams should also prepare sketch maps on which localities selected for the survey are plotted. The local administrative authorities should be informed well in advance about these visits in order to ensure full community participation. Close collaboration with the education department will be necessary, as due attention has to be given to the periods of vacations and examinations in the schools.

2.3 Implementation of field surveys

These surveys are an important part of the preparation for certification of smallpox eradication. They require skill and devotion from specially trained teams. The teams should collect information from primary schools, health units, markets, kindergartens and nomadic camps in the localities selected on the basis of their population size. The surveys will consist of facial pock marks and smallpox inquiry surveys and should start as soon as possible.

2.3.1 Smallpox pock mark surveys

This type of survey is useful for assessing the extent of past outbreaks or to confirm the absence of smallpox during recent years.

In the areas selected, a significant sample of children should be examined for facial pock marks.

Surveys will be conducted in the primary schools and for pre-school age-groups, in the markets, health units and other places. Forms 2, 3 and 4 will be completed accordingly and kept in the files at the national headquarters to be reviewed by the International Commission.

If any child is found with five or more concentric depressed facial scars of greater than 1 mm diameter at the base, it must be considered suggestive of smallpox; a full history and investigation are indicated. If initial inquiries reveal that a particular case can be attributed to a known smallpox outbreak only the place of attack and the year need be recorded. Any pock marked person claiming that the pock marks were caused by a disease occurring since the last known smallpox in the locality or in a location not previously recognized as the site of a smallpox outbreak, requires full investigation.

2.3.2 Smallpox inquiry

A smallpox inquiry survey should be conducted simultaneously with other activities to identify rumours of outbreaks of smallpox, suspected cases or deaths due to chickenpox during the previous two years and to check them through appropriate investigations in order to confirm or refute the existence of undetected smallpox transmission. Scrutiny of the registers in the health units is necessary to know whether or not any patients were suspected to be cases of smallpox or treated without notification. Form 3 is used for this purpose and forms 4 and 6 will be completed if the team's observation indicates smallpox or smallpox strongly suspected.

2.4 Supervision

The national health authorities (with WHO collaboration where appropriate) will be responsible for all the activities.

In order to monitor the progress and sensitivity of the field survey and performance of the mobile teams, a central evaluation team should regularly visit at least 10% of the localities visited by the survey teams during each month. Such visits should include primary schools (where some younger children should be re-examined), fixed health units (for verifying

survey team's observations) and examination of as many chickenpox cases as possible from whom laboratory specimens had been collected. Brief reports should be prepared by the evaluation team.

2.5 Recording and reporting

2.5.1 Survey reports

A full documentary proof of all aspects of planning and implementation of the survey will be required by the members of the International Commission in addition to all the results of field investigations. Therefore, all the forms proposed to be used during this programme must be available at the national survey headquarters for review by members of the Commission.

- Form 1. Field visit itinerary
- Form 2. Primary school facial pock mark survey
- Form 3. Smallpox inquiry and pock mark survey in health units and other places
- Form 4. Investigation of child with smallpox pock marks or smallpox suspect
- Form 5. Monthly summary form

In addition to the above forms, forms 6 and 7 are to be used for all suspected smallpox case(s). Form 8 must accompany all specimens sent to WHO for forwarding on to reference laboratories.

In order to facilitate the monitoring of the sensitivity and progress of field activities, one copy of Form 5 (monthly summary form) should be sent to Smallpox unit, World Health Organization, 1211 Geneva 27, Switzerland, and one copy to the WHO Regional Office.

2.5.2 Reports on suspected cases

Any smallpox outbreak or suspected outbreak which has occurred since the last known smallpox in any of these countries has serious implications and must lead to most meticulous and exhaustive epidemiological investigations and completion of forms 6, 7 and 8.

2.6 Final report

This document to be presented to the members of the International Commission will describe in detail the criteria and methods used in the selection of localities for special investigation and field survey, qualifications, training, the number of survey teams, and the supervisory system. The report will include the final results of field surveys and other documents related to smallpox assessment activities. The report should be submitted to WHO at least one month before the scheduled date for certification of smallpox eradication in the country concerned.

Αn	nex	3

3. REPORTING AND INVESTIGATION FORMS

	FORM
Country	Province
Region	District
F	TELD VISIT ITINERARY

	Population	Population Date of			Number of					
Locality name	(estimated for 1976)	Visit	Actual	Primary	schools	Health units				
	101 1970)	planned	visit	Present	Visited	Present	Visited			
	h					,				
		,								
,						· .	,			
				 		1				
	<u> </u>	1	1	1	.1		<u> </u>			

Name of realit Leader (Signature)	Date	Name of Team	Leader	(s	signature)	
-----------------------------------	------	--------------	--------	----	------------	--

Αn	nex	3

FORM 2

Country	Province
Region	District

PRIMARY SCHOOL FACIAL POCK MARK SURVEY

·		Primary	schools	Number of	children w	ith smallp	ox pock marks
Localities (est. pop.)	Date of visit	Name or address	No. of children examined	Suffered in b or before	Suffered after b	Total	Remarks
					·		
				-			
					5		

Date	Ναπ	ne of '	Team	Leader	(signature)	
					 , ,	

a Form 4 must be completed.

 $[\]frac{b}{}$ Enter the month and year of the last known smallpox outbreak.

Annex	3

	FURM 3
Province _	
District	

SMALLPOX INQUIRY AND POCK MARK SURVEY IN HEALTH UNITS AND OTHER PLACES

			Number of persons seen											
	Date	Name of	Number of smallpox or			Under 5 years			5-14 years			Adults		
Locality		health units or other places ^a	rumours or chickenpox death suspected in 1975	Number	No. with s	mallpox rks ^C	Number	No. with s	mallpox rks ^C	Number	No. with s pock ma	mallpox rks <u>c</u>		
			or after <u>b</u>	seen	In dor before	After d	seen	In <u>d</u> or before	After d	seen	In <u>d</u> or before	After <u>d</u>		
					!			ļ						
						:								
Tota	.1			<u> </u>			-		<u> </u>	 		+		

Date Name of Team Leader (signature)		Name of Team Leader _		
--------------------------------------	--	-----------------------	--	--

a Markets, kindergartens, festivals, etc.

 $[\]frac{b}{a}$ Form 4 must be completed. If team's observation indicates smallpox or smallpox strongly suspected, forms 6 and 7 also must be completed.

c Form 4 must be completed.

 $[\]frac{d}{d}$ Month and year of last known smallpox outbreak.

Annex 3

FORM 4

		Total 4
Country		Province
Region		District
INVESTIGATION	OF CHILD WIT	TH SMALLPOX POCK MARKS OR SMALLPOX SUSPECT
Information obtained from:	Hospital Dispensary	<u>Name</u>
	мсн	
	School	
	Other	
Name of person under invest	igation	
Name of father		Name of mother
Address: Village		District
State		
Age: years		Sex: Male Female
Month (if possible date)/ye of onset of rash:		Outcome: Died Recovered
Locality of disease onset _		
Facial pock marks: Yes	No	If "yes", how many?
Vaccination history: Yes	No	If "yes", when?
Vaccination scar: Yes	No	
Rash - distributed more fac	e and limbs	Yes No No
Rash - same stage of evolut	ion	Yes No
Have there been any deaths similar disease in the local		Yes No If "yes", how many?
Team's diagnosis: Sm	nallpox	Other Specify
Specimen taken for laboratory diagnosis	Yes	No Sent to:
Date Name	e of Team Lea	der (signature)

 $\frac{\text{Note:}}{\text{observation indicates smallpox or smallpox strongly suspected.}}$

MONTHLY SUMMARY FORM

Country		Province									
Region				District							
1. COVERAG	E BY SURV	VEY TEAMS									
Number of localities Number			mber of	of primary schools Number of							
Colooped Wising		1	Present		Cl	nildren	Health units		units	Other places	
Selected	Selected Visited				ex	camined	Present		Visited		places- visited
2. RESULTS	OF POCK	MARK SURVE	Y		<u> </u>		<u> </u>			<u>I</u>	
	*************************************				Pers	ons with		-		bу уе	ar
Group of person		1	Number of persons seen				smallpox attack				
	hersons		persons seen		b or Invest		igated		After Invest		vestigated
Pre-school	l										
Primary so	hool										
Adults											
Total	L										
3. RESULTS	S OF SMAL	LPOX INQUI	RY								
	Number o	f places v	here			Number	of sus	pecte	ed small	рож с	ases
Inquiries made		I	Suspected cases were informed			Investigated		Occurring after		ıfter 1975	
4. RESULTS	S OF CHIC	KENPOX SUR	/EY					I.			``
Number of specimens collected by				Number of laboratory results			esults				
		ile teams	le teams Smallr		٧a	ricella +	No v		virus Oth		rs (specify)
Date	****	_ Name of	Team I	eader	**********		(;	signa	ture) _		

a Markets, kindergartens, festivals, nomads, etc.

 $[\]frac{b}{-}$ Month and year of last known smallpox.

 $[\]frac{c}{}$ Schools, health units and other places.

Annex 3

FORM 6

Country				Pr	ovince		
Region				Di	strict		
		PATIE	NT AND HIS FAMII	Y INVESTIGA	TION		
Patient's name:				Age:		Sex:	
Address			····				
Vaccination status				Yes	No	7	
Date of onset of r	ash:		Outcome:	Died	Survived	Date_	
Source of infection	n:			L		_	
Family conta	act		Other	Specify:			
			٠				
Exposure to other patien in the local	1 1				·- 		<u>, , , , , , , , , , , , , , , , , , , </u>
Had patient travel onset of rash:			-			; <u> </u>	No
If "yes" where? —	· · · · · · · · · · · · · · · · · · ·						
Did anyone with a during three weeks	smallpox- s before o	like il nset o	f rash:	home or vi	llage Yes	3	No
							
Had patient travel when scabs fell of		_	ess (from date o	f onset to	date Yes	s 🔲	No 🗔
If "yes" where? _	 .						
Family including p	patient, w	hen sma	allpox occurred				
Name	Age	Sex	Vaccination scar (yes/no)	Smallpox (yes/no)	Left during outbreak (yes/no)	For w	here*
* Use revers	e side of	this s	heet for details	•			
Date	Name	of Tea	m Leader		(signature)		

Annex 3

						•		FORM 7
Country					1	Province		
Region]	District		
				LINE LIST	ING OF PATIENTS	S		
Locality	Name	Age	Sex	Father's name	Vaccination scar: Yes No	Date onset of rash	Outcome: Died/ Recovered	Source of infection
		-						
		 						
	+ .		ļ	-				
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L				Da	†	1	1	<u> </u>
					me of Team Lea			
					tle			

Signature ____

INFORMATION ON PATIENT FOR SMALLPOX LABORATORY TESTS

Pove on a l	Country	Patient No.								
Personal Data	Name	Age	Sex							
	Full address									
Present Illness	Date of onset Of fever									
History	Year of earliest vaccination									
Contact History	Was patient recently exposed to: A case of smallpox: Yes	days ago. No								
Clinical/ Epidemiological diagnosis		hickenpox Otl	ner (specify)							
Type of Specimen	Smear from maculo- papular lesions fluid or pus	rusts Serum	Other (specify)							
Specimen submitted by: Name Address										
Testing results to be notified to: Name										
To be completed by testing laboratory Date specimen received at laboratory: Date results notified:										
	Electron microscopy: Variola or vaccinia viruses seen: Varicella or herpes simplex virus seen:	Yes No No	Uncertain Uncertain							
	Precipitation in gel. Positive with anti- vaccinia serum:	Yes No	Uncertain							
Diagnostic Tests	Virus isolation. Variola virus isolated:	Yes No	Uncertain							
	Other tests (specify)									
	Comments,									
Testing Laboratory: Name Address										
1										

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ANNEX 4

GUIDELINES FOR COLLECTION OF SPECIMENS FOR LABORATORY EXAMINATION

Collection of specimens

- To prevent any contamination, unclean needles or bifurcated needles must not be used. Scabs should be detached using blood lancets only.
- At least six scabs from each case must be collected in each small plastic tube supplied for this purpose.

Labelling of specimens

Additional self-adhesive labels provided with the tubes should include patient's name and reference number corresponding to the reference number on the form (Information on patients for smallpox laboratory tests) attached. Appropriate sections of the form must be completed in full.

Dispatch of specimens

(a) From field to central level: If it is not possible to dispatch the specimens to the central level as and when collected, they may be stored in a cool place until a sufficient number accumulate for dispatch.

If the rigid plastic tube with red cap is removed from the aluminium tube of the WHO specimen collection kit, about 10 plastic tubes can be put in this tube instead. The patient information forms should be wrapped outside the tube containing the 10 specimen tubes. Under no circumstances should specimens be dispatched without completed forms.

(b) At central level: All the specimens and forms received from the field should be carefully checked in order to ascertain that specimens, labels and the patient information forms are all in order.

A register should be maintained to record all chickenpox specimens received from the field for follow-up purposes; it should mention <u>inter alia</u> the national specimen number if different from the field number. The national specimen number should be marked both on the specimen container and the patient form (attached).

Whenever a reasonable number of specimens have been received, or at regular intervals, specimens and forms must be securely packed in a carton and sent by air freight to the Smallpox Eradication unit, World Health Organization, Avenue Appia, 1211 Geneva 27, Switzerland (telephone 34 60 61). A telegram should be sent to UNISANTE, Geneva, for the Smallpox Eradication unit informing them about the airway bill number and the flight by which specimens will arrive in Geneva. This system will ensure their rapid collection and facilitate their search if lost during transport.

The laboratory results received from WHO should be promptly communicated by national headquarters to all the field units submitting the specimens to sustain their interest in laboratory surveillance of chickenpox.

INFORMATION ON PATIENT FOR SMALLPOX LABORATORY TESTS

		Y	1						
Personal	Country	Patient No.							
Data	Name	Age	Sex						
	Full address								
Present Illness	Date of onset of fever Date of onset of rash Type of rash-Confluent Date of onset Discrete Distribution of rash typical for smallpox	Name and lo	cation of hospital						
History	Year of earliest vaccination								
	Has patient ever had: Smallpox: No	Yes Yes	Year Year						
Contact History	Was patient recently exposed to: A case of smallpox: Yes								
Clinical/ Epidemiological diagnosis		hickenpox Oth	ner (specify)						
Type of Specimen	Smear from maculo- Vesicular Company lesions fluid or pus	rusts Serum	Other (specify)						
Specimen submitted by: Name Address									
Testing results to be notified to: Name									
To be completed by testing laboratory Date specimen received at laboratory: Date results notified:									
	Electron microscopy: Variola or vaccinia viruses seen: Varicella or herpes simplex virus seen	Yes No	Uncertain Uncertain						
	Precipitation in gel. Positive with anti- vaccinia serum:	Yes No	Uncertain						
Diagnostic Tests	Virus isolation. Variola virus isolated:	Yes No	Uncertain						
	Other tests (specify)								
	Comments.								
Address									
L,									