

# Tool for Assessing Health Needs

in relation to

# G6PD Deficiency

Part of the PHG Foundation Toolkit for Assessing Health Needs in relation to Congenital Disorders

Version 1.0, November 2011



# PHG Foundation Needs Assessment Tool for Glucose-6-Phosphate Dehydrogenase Deficiency

Country / Territory of interest for present needs assessment on G6PDD:

#### G6PD-0 INTRODUCTION

Welcome to the PHG Foundation Congenital Disorders Needs Assessment Tool, for Glucose-6-Phosphate Dehydrogenase Deficiency (G6PDD). This Tool consists of seven sections, which are explained briefly in the Guide:

- the Country Profile
- the Epidemiology section
- the Interventions section
- the Needs Assessment section
- the Situation Assessment
- the Initial Prioritisation
- the Summary Report

The narrative and the written instructions are contained in the Tool, while numerical input and calculations are performed in the Calculator. The Tool and the Calculator should be used alongside one another. Where you need to put data into the Calculator, you will see an instruction.

#### **Decision points**

At certain points you will be prompted to decide whether it is necessary to continue with your present needs assessment. If the burden is low, for example, you may decide your efforts are better used on another topic, but this should be made explicit.

#### **Subpopulations**

If there is substantial variation in burden or service factors between population sub-groups, a whole-population needs assessment may not be appropriate. It may be necessary to conduct separate assessments for the individual groups, or to focus your assessment on a group that is particularly affected. At the minimum, you should ensure that substantially higher or lower rates in an identified population sub-group do not lead to inaccurate estimates for the whole population.



#### G6PD-CP COUNTRY PROFILE

Demographic and health service factors are key determinants of the scale of congenital disorders and of the potential to provide care and prevention.

Note: If you or others coordinating PHG needs assessments have already

completed Demography and Health services sheets in another topic Calculator for this population, you can copy that data into the present Calculator. Population definition: Briefly describe the population if you are not using the whole country. Some sources containing data relevant to the Country Profile are given in Appendix 1 located at the end of this document. G6PD-CP1 Demography Demographic factors in a population have important effects on the burden of congenital disorders. Variables such as maternal age and level of consanguineous marriage affect the incidence of disorders, while variables such as birth rate and contraceptive prevalence affect the absolute number of births. Other indicators are useful for understanding the general context. In the sheet of the Calculator named 'Demography' there are estimates of various important demographic indicators. You can add data from your own sources. >>> Go to Calculator sheet Demography G6PD-CP2 **Health services** Ideally, activities related to the care and prevention of congenital disorders are well integrated into health services, and particularly into family planning, women's, maternal, newborn, child, genetic and public health services. Please give a summary description of the operation of health services and programmes in the country or territory. Describe their accessibility and coverage, and who is responsible for them.



	cies, legislation and guidelines in relation to the pre- lhood, including genetic services and screening for
for change and when completing the	be important to consider when assessing the potential prioritisation process. Please now go to the Health thServices) and enter estimates of the health-services
	>>> Go to Calculator sheet HealthServices
Please summarise the country profile, h	nighlighting where the indicators are unsatisfactory. the indicators.



#### G6PD-E EPIDEMIOLOGY

This section helps you to bring together epidemiological data related to Glucose-6-Phosphate Dehydrogenase Deficiency, to understand the burden in your setting. The Calculator sheets already contain modelled estimates from PHGDB. You may add data from research studies, surveillance systems or other sources, assessed for representativeness and quality.

Decision point: You may skip this section if you do not know of further estimates or just prefer to use the PHGDB estimates. If your population is not the total population of your country or territory, the PHGDB estimates may not be accurate.

First, please complete some definitions as used in your country in Box G6PD-E1.

#### Box G6PD-E1: Definitions

Terms	Enter definition here
Live birth	
Still birth	
Miscarriage	

#### G6PD-E1.1 Summary country epidemiology for Glucose-6-Phosphate Dehydrogenase Deficiency

This section summarises the epidemiology of Glucose-6-Phosphate Dehydrogenase Deficiency (G6PDD) in your country. The aim is to record basic 'headline' data for the prevalence of Glucose-6-Phosphate Dehydrogenase Deficiency in your country/territory, and the resulting mortality. Estimates from the PHGDB are contained in the G6PD-E1.1 Calculator sheet.

Once you have completed the epidemiology section, you will be asked to consider whether you need to update this section.

>>> Go to Calculator sheet G6PD-E1.1

#### G6PD-E1.2 International comparative epidemiology

This section allows you to compare the situation in your population to the pre-populated estimates at national, regional and world level. If you are not using the PHGDB national estimates you will need to copy your chosen estimates from sheet G6PD-E1.1 into the appropriate column here.

If you would prefer a different comparator, you can obtain PHGDB estimates for that country/territory from sheet G6PD-E1.1 of the Calculator *for that country/territory*, which you can get from the Toolkit website.

>>> Go to Calculator sheet G6PD-E1.2

Note: The following sections CHT-E2 and CHT-E3 ask for data from research studies, surveillance activities and other sources. Less detailed estimates of prevalence and effect are given by the PHGDB, in case such data are not available for your population.



#### G6PD-E2 Data on affected pregnancies

In this section you will record data on live births and still births affected by Glucose-6-Phosphate Dehydrogenase Deficiency. If national or local estimates are not available, please move to section E2.4 which gives you estimates from PHGDB.

#### G6PD-E2.1 Data on affected pregnancies: Research studies

Are national or local estimates for the prevalence of affected births available from research studies? If not, please move to section G6PD-E2.2.

If research studies with information on birth prevalence of Glucose-6-Phosphate Dehydrogenase Deficiency in your population are available, please list these here, including an indication of their quality and findings.

**Table G6PD-E2.1** Research studies on pregnancies affected by Glucose-6-Phosphate Dehydrogenase Deficiency

Study author, year, site	Sample size	Study quality and representativeness	Main findings

Now copy these studies into the Calculator sheet G6PD-E2.1 and complete that sheet.

>>> Go to Calculator sheet G6PD-2.1

#### G6PD-E2.2 Data on affected pregnancies: Surveillance data

Are data on pregnancies affected by Glucose-6-Phosphate Dehydrogenase Deficiency available from surveillance systems, for your population? If not, please move on to section G6PD-E2.3. If surveillance data are available, please fill in the table in Calculator sheet G6PD-E2.2.

>>> Go to Calculator sheet G6PD-E2.2



#### G6PD-E2.3 Data on affected pregnancies: Other sources

Are there other sources of data with information on affected live births or still births? Sources of such data might include hospitals, primary care, or surveys or estimates by charities with specific interest in the condition.

If yes, it is important to consider the completeness, quality and representativeness of the data. In Calculator sheet G6PD-E2.3 you will enter basic numbers of affected live births and still births recorded from your data source. You will also estimate numbers for the whole country/territory, based on an assessment of how complete the source data is, and how much of the country/territory it covers. You will finally select the best estimates based on these data sources.

If the burden in the population covered by these data sources is different from the burden in the total population of your country/territory, you can weight your data. For a brief description of weighting, please see the Weighting section in the Guide.

>>> Go to Calculator sheet G6PD-E2.3

If you do not have data from other sources, please continue to section G6PD-E2.4.

#### G6PD-E2.4 Summary of affected pregnancies

You may now combine estimates from research, surveillance and other health sector data and compare them to data from the PHGDB. Then you may choose your final estimates.

Please ensure you enter a chosen estimate in the appropriate column as these will be used later.

>>> Go to Calculator sheet G6PD-E2.4

#### G6PD-E2.5 Sub-population variation in affected pregnancies

If the birth prevalence rates vary by population sub-group (e.g. geographically or according to another factor), please indicate any population groups with different prevalence estimates from the whole population and describe reasons for variation. If a group is substantially different from the general population, you may wish to conduct a needs assessment for that group alone.

>>> Go to Calculator sheet G6PD-E2.5

#### G6PD-E3 Mortality data

Completing this section will help to show what the burden of mortality from Glucose-6-Phosphate Dehydrogenase Deficiency is in your population. If national or local estimates are not available, please move to section E3.4 which gives you estimates from PHGDB.

#### G6PD-E3.1 Mortality data: Research studies

Are national or local condition-specific mortality estimates available from research studies? If not, please continue to section G6PD-E3.2. If study estimates are available, please complete the table below on studies (including unpublished) providing mortality information in the country. Be aware of the need to differentiate between age groups when considering mortality – the Calculator sheet asks for mortality estimates for different age groups.



**Table G6PD-E3.1** Research studies on mortality due to Glucose-6-Phosphate Dehydrogenase Deficiency

Source, year, site	Sample size	Age groups covered	Study quality and representativeness	Main findings

Comment on existing studies and on the quality of information they provide on mortality in

the country and population sub-groups.		

Now, copy the table of studies into Calculator sheet G6PD-E3.1 and enter the best estimates for condition-specific mortality by age-group (infant, under-5, etc).

>>> Go to Calculator sheet G6PD-E3.1

#### G6PD-E3.2 Mortality data: Vital registration data

If there are national or local vital registration mortality statistics with information on Glucose-6-Phosphate Dehydrogenase Deficiency, you can use sheet G6PD-E3.2 of the Calculator to record numbers and rates of affected deaths. If there are no vital registration statistics, please continue to section G6PD-E3.3.

It is important to consider sub-registration of deaths and under-ascertainment of specific causes of death. The tables in Calculator sheet G6PD-E3.2 allow you first to enter registered deaths for various age groups, and second to estimate numbers and ratios of deaths for the whole country/territory, based on an assessment of how complete the vital registration data is, and how much of the country/territory it covers.

If the burden in the population covered by your vital registration data is different from the burden in the total population of your country/territory, you can weight your data. For a brief description of weighting, please see the Weighting section in the Guide.

>>> Go to Calculator sheet G6PD-E3.2



#### G6PD-E3.3 Mortality data: Other sources

If other sources have information on mortality due to the condition, please enter those sources into this table.

**Table G6PD-E3.3** Other sources of data on mortality due to Glucose-6-Phosphate Dehydrogenase Deficiency

Source, year, site	Sample size	Age groups covered	Study quality and representativeness	Main findings

Now copy these sources into the Calculator sheet G6PD-E3.3 and complete the quantitative estimates in that sheet.

>>> Go to Calculator sheet G6PD-E3.3

#### G6PD-E3.4 Summary mortality estimates

Now, please combine estimates from research, surveillance and other health sector data and compare them to data from the PHGDB. Then choose the best estimates.

>>> Go to Calculator sheet G6PD-E3.4

#### G6PD-E3.5 Sub-population variation in mortality

Does condition-specific mortality vary between identifiable sub-groups in your population (e.g. geographically or according to other factors)? If not, continue to section G6PD-E4.

If the mortality does vary by population sub-group, indicate any population sub-groups with different mortality estimates from the whole population and describe reasons for variation.

>>> Go to Calculator sheet G6PD-E3.5

#### **G6PD-E4** Population prevalence

This section should make clear what the prevalence of Glucose-6-Phosphate Dehydrogenase Deficiency is in your population. Are national or local estimates available for the population prevalence of affected persons? If not, please move to section G6PD-E4.3.

#### G6PD-E4.1 Population prevalence: Research studies

Are there research studies (including unpublished) providing prevalence estimates of Glucose-6-Phosphate Dehydrogenase Deficiency in your population? If so, please enter them in the following table. If not, please move to section G6PD-E4.2.

**Table G6PD-E4.1** Research studies on population prevalence of Glucose-6-Phosphate Dehydrogenase Deficiency

Source, year, site	Sample size	Study quality and representativeness	Main findings and comments



PIOVAIGING IOI LIIG U	ountry or for sub-gi	roups of the population.	
		•	
to Calculator sheet Glucose-6-Phospha to reflect uncertain	G6PD-E4.1 and e te Dehydrogenase nty of estimates	estimate of the general poenter the best estimates for Deficiency in your population and within-country variable pulation you may wish to account the second	the overall prevalence of on. Give a range of values tion. If studies are not
•		>>> Go to Calculator	•
G6PD-E4.2	Population p	revalence: Other sour	ces
Phosphate Dehydro include hospitals, pr	genase Deficiency imary care, or sur	formation on the population in your country/territory? S veys or estimates by charit is table. If not, please move	ources of such data mighties with specific interest in
Table G6PD-E4.2		of data on population p	prevalence of Glucose-6-
Table G6PD-E4.2  Source, year, site	Phosphate Dehy	of data on population progenase Deficiency  Study quality and	orevalence of Glucose-6-
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Use data from the sources above to generate an estimate of the general population prevalence. Move to Calculator sheet G6PD-E4.2 and enter the best estimates for the overall prevalence of Glucose-6-Phosphate Dehydrogenase Deficiency in your population. Give a range of values to reflect uncertainty of estimates and within-country variation.

>>> Go to Calculator sheet G6PD-E4.2

#### G6PD-E4.3 Population prevalence summary

Now, please combine estimates from research studies and other data sources and choose the best estimates.

Please ensure you enter a chosen estimate, in the appropriate column as these will be used in later.

>>> Go to Calculator sheet G6PD-E4.3

#### G6PD-E4.4 Sub-population prevalence variation

Does the population prevalence vary across the country/territory?

If the prevalence varies by population sub-group (e.g. geographically or according to other factors), indicate any population sub-groups with different prevalence estimates from the whole population and describe reasons for variation.

First, describe reasons for choice of population sub-groups:
low, go to the Calculator and enter data on prevalence variation by population sub-group.
>>> Go to Calculator sheet G6PD-E4.4
G6PD-E4.5 Population prevalence: data needs
G6PD-E4.5 Population prevalence: data needs Please list below any needs for further data from research, and outline whether and how
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Please list below any needs for further surveillance and health services data (or improvement in data quality) and outline how these data could be obtained.		



#### **G6PD-INTERV NEWBORN SCREENING**

#### **G6PD-Interv1** Newborn screening and treatment

Please use the Calculator sheet G6PD-Interv1 to estimate the potential reduction in the prevalence of unmanaged G6PD after newborn screening and treatment,

>>> Go to Calculator sheet G6PD-Interv1

Note: You may now want to revisit the national and comparative epidemiology profiles completed previously (in sheets G6PD-E1.1 and 1.2 of the Calculator).



**G6PD-NA1.2** 

#### G6PD-NA NEEDS ASSESSMENT SECTION

#### G6PD-NA1 Epidemiology

#### G6PD-NA1.1 The size of the problem

In the epidemiology section above, you chose estimates for the burden of Glucose-6-Phosphate Dehydrogenase Deficiency and for mortality indicators. The Calculator sheet G6PD-NA1 contains tables recording the chosen estimates from the Calculator sheets G6PD-E2.4 and G6PD-E3.4. You may create similar tables for specific sub-groups of the condition as appropriate.

>>> Go to Calculator sheet G6PD-NA1

Preliminary assessment of public health significance

#### 

Decision point: If you do not consider this to be a significant public health problem and no specific policies and interventions are required as a priority, you may stop here and move to another topic. Otherwise, continue with section G6PD-NA2.



**G6PD-NA2.1** 

### G6PD-NA2 Assessment of epidemiology, policies, services and information

**Desired situation** 

# First outline the desired situation ('where do we want to be?') in relation to the epidemiology, care and prevention of the condition in the following areas: Epidemiology (outcomes indicators, e.g. for prevalence and mortality) Policies and programmes that would be optimal for delivering effective care and prevention in your country or region.

counselling and interventions aimed at risk factors.

Services and interventions that may be delivered, such as prenatal screening, diagnosis,



Information availability (e.g. registries, vital statistics, health service indicators)
Desired outputs resulting from action (e.g. availability, coverage and quality of policies,
interventions and services)
CCDD NAC 2 Correct city etion and gone
G6PD-NA2.2 Current situation and gaps
Now please assess the current situation and unmet needs ('where are we now?'), indicating
potential areas for action.
G6PD-NA2.2.1 Policy and programmes
Briefly list any policies or programmes for the care and prevention of Glucose-6-Phosphate
Dehydrogenase Deficiency in your country or territory, and who is responsible for them (e.g.
Institution, Ministry or Department).
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Care



Are there gaps or inadequacies in policies or programmes and in their implementation? Give details.  If yes, are there plans to address them? Give details.	revention
details.	
details.	re there gaps or inadequacies in policies or programmes and in their implementation? Giv
	etails
if yes, are there plans to address them? Give details.	otano.
f yes, are there plans to address them? Give details.	
If yes, are there plans to address them? Give details.	
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f yes, are there plans to address them? Give details.	
	yes, are there plans to address them? Give details.



What can be done to tackle unmet needs?
CCDD NAC CO. Complete and interprettions
G6PD-NA2.2.2 Services and interventions
List services and interventions for prevention and care, and comment on their quality a
who provides them.
Prevention before pregnancy, both directed to high risk groups and population wide (e.g.
family planning, carrier/preconception screening)
Dravention during programmy (a.g. proposal corponing, advice on ricks to newborn)
Prevention during pregnancy (e.g. prenatal screening, advice on risks to newborn)



Care and prevention after birth (e.g. newborn management, acute episode and long term management)
Are the above services and interventions well integrated with other health services (e.g. maternal and child health services, genetic, and haematology services)?
How do these target people at different life stages (i.e. before and during pregnancy and after birth)?



communications between health service staff, and referral mechanisms)	
How are services and interventions monitored and evaluated?	
Are convined and interventions satisfactorily delivered?	
Are services and interventions satisfactorily delivered?	



Are services and interventions delivered across the country or territory equitably, according to the needs of different populations?
Are there any gaps or inadequacies in the delivery of services and interventions? If yes,
what are the main reasons (e.g. lack of priority, planning, financial resources, facilities and equipment, trained personnel, managerial deficiencies)?
equipment, trained personner, managenar denoiences):
If there are gaps, are there plans to address them? Give details.



	st what could be do	one and how.		
6PD-NA2.2.			and research dat	a that are relevant to
ne condition.	quality of arry exis	stirig surveillance	and research dat	a triat are relevant to
there a need for	or changes in surv	eillance systems	for the condition?	)
there a need fo	or changes in surv	eillance systems	for the condition?	)
there a need fo	or changes in surv	eillance systems	for the condition?	,
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hat can be done?  ummary of the main gaps or unmet needs	ata impede action?			
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Use Table G6PD-NA2 to enter the level of met **needs** for policies and programmes, services and interventions, considering key life stages as appropriate. Use a numerical code system from 1 to 5, to reflect (1) mostly unmet (high need) to (5) mostly met (low need), with '3' representing an intermediate level of met needs. Therefore '1' represents an unsatisfactory situation, and '5' represents an optimum situation. You may use the action areas listed below, and add items as you find appropriate.

**Table G6PD-NA2** Summary of levels of health needs in relation to Glucose-6-Phosphate Dehydrogenase Deficiency

Action areas	Policies/ Programmes	Services and Interventions			Overall
	-	Before	During Pregnancy	After Birth	
		Pregnancy	Pregnancy		
Public education					
Preconception screening			n/a	n/a	
Counselling services					
Prenatal screening		n/a		n/a	
Newborn screening		n/a	n/a		
Newborn diagnosis		n/a	n/a		
Primary care diagnosis		n/a	n/a		
Acute clinical care					
Acute clinical care post-					
neonatal period					
Long term clinical care					
Blood transfusion services					
Prevention of haemolysis					
Social care					
Disability support					
Support group involvement					
Surveillance					
Research					
Professional education					
Workforce training					

Use the space below to summarise the main gaps or unmet needs identified



#### **G6PD-NA3** Assessment of intervention options

In this section you will consider what effect different interventions can have on the burden of Glucose-6-Phosphate Dehydrogenase Deficiency in your population.

#### **G6PD-NA3.1** Quantitative assessment of interventions

Here, you should fill in data relating to the prevalence of Glucose-6-Phosphate Dehydrogenase Deficiency in different intervention scenarios: in the absence of interventions, in the current situation, and in the desired situation.

Table G6PD-NA3a in Calculator sheet CHT-NA3 relates to 'potential cases' – expected numbers of cases and rates in the absence of any interventions (if coverage = zero).

Please note: there is no Calculator sheet NA2. This is deliberate! >>> Go to Calculator sheet G6PD-NA3

Tables G6PD-NA3b to NA3e in Calculator sheet CHT-NA3 refer to the current and target (desirable) situations for interventions before birth and after birth. Please enter data in these tables. You may add or delete rows as appropriate.

>>> Go to Calculator sheet G6PD-NA3

Table G6PD-NA3f in Calculator sheet CHT-NA3 refers to outcomes. Figures for 'current situation' come from Tables G6PD-NA1a and NA1b.

>>> Go to Calculator sheet G6PD-NA3

#### G6PD-NA3.2 Qualitative assessment of interventions

Now consider existing interventions and their coverage, effectiveness, cost-effectiveness, and current impact. Use numbers between '1' (very low) and '5' (very high). Please enter or delete rows as appropriate.

Table G6PD-NA3.2a Qualitative assessment of the impact of current interventions

Interventions	Coverage	Effectiveness	Cost- effectiveness	Impact
Before pregnancy				
Family planning, education				
Preconception screening				
During pregnancy				
Prenatal screening				
After birth				
Newborn screening				
Newborn diagnosis				
Treatment of newborn				
Haemolysis prevention				
Haemolysis treatment post				
neonatal				
Social care and support				

Now consider the potential for the implementation of new interventions or changes to existing ones, in relation to their achievable coverage, effectiveness, cost-effectiveness and potential impact. Use numbers between '1' (very low) and '5' (very high). Please enter or delete rows as appropriate.



 Table G6PD-NA3.2b
 Qualitative assessment of the expected impact of interventions

Interventions	Achievable coverage	Effectiveness	Cost- effectiveness	Impact
Before pregnancy				
Family planning, education				
Preconception screening				
During pregnancy				
Prenatal screening				
After birth				
Newborn screening				
Newborn diagnosis				
Treatment of newborn				
Haemolysis prevention				
Haemolysis treatment post				
neonatal				
Social care and support				



#### G6PD-NA4 Situation assessment

Now consider your environment and describe the **S**trengths, **W**eaknesses, **O**pportunities and **T**hreats in relation to policies and services, using the SWOT diagram in Table G6PD-NA4.

	O	•	
Table G6PD-NA4	SWOT diagram		
Internal environment	t e	External environment	
Strengths		Opportunities	+
Weakness		Threats	
			_



#### **G6PD-NA5** Initial prioritisation: Comparing interventions

#### The prioritisation team and processes

List the people and organisations invited to and involved in the initial prioritisation process in Table G6PD-NA5a, and briefly explain how they were chosen.

Table G6PD-NA5a The prioritisation team			
Person invited	Organisation represented	Accepted (Y/N)	
<u> </u>			
Brief explanation of choice	of participants and give any other comme	nts:	
Now consider in the grou	p your ground rules, prioritisation criteria	and action areas, and	
	A5b to G6PD-NA5d. Start with the ground r		
T.I.I. CORD MASI			
Table G6PD-NA5b Grou	und rules for the prioritisation process (add	rows if needed)	



Now list in Table G6PD-NA5c the prioritisation criteria you will use. You may wish to add weights to each criterion (from '0' to '1') in the table.

Table G6PD-NA5c	List of criteria for prioritisation of interventions (add rows if needed)
Based on your asses areas for consideration	ssment of needs, please consider and list in Table G6PD-NA5d action on.
Table G6PD-NA5d	List of action areas for consideration (add rows if needed)

Based on the criteria selected, compare the action areas and rank them from the highest to the lowest priority. You may enter the results directly, following your discussions. You may find it helpful to use decision analysis software, so as to do this in a more systematic way (see the Prioritisation document). Show your results in Table G6PD-NA5e, by entering the selected 'Action Areas' from the highest priority (1) onwards, using as many rows as appropriate. Tick the last column for all action areas that you consider are of sufficient priority to carry over to the later stages of the prioritisation process. This will enable these results to be compared with those for other conditions or topics at a later stage.

**Table G6PD-NA5e** List of priority action areas and interventions for Glucose-6-Phosphate Dehydrogenase Deficiency

Priority 1. highest	Action area	Carry over
1. highest		
2.		
3.		
4		
5		

You have completed this Section! Now please proceed to the Summary Report.



#### G6PD-NA6 Summary report

It is now time to bring together the main findings of your needs assessment into a summary report. This will present in one place the basic information about the burden of Glucose-6-Phosphate Dehydrogenase Deficiency, the present state of interventions and the potential to improve care and reduce incidence.

Briefly describe the population and condition.
Briefly describe the epidemiology of the condition, including within-country and international comparisons, and highlighting any high risk groups. <sup>1</sup>
List the main services and interventions currently available for the care and prevention of the
condition. <sup>2</sup>
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<sup>&</sup>lt;sup>1</sup> Possible reference sections: E1.1, NA1.1

<sup>&</sup>lt;sup>2</sup> You may wish to include an assessment of the effectiveness, cost-effectiveness, coverage, quality and level of satisfaction with the interventions or services. Possible reference section: NA3.1, NA3.2.



Are there any threats to the continuation of services? <sup>3</sup>		
What are the unmet needs as assessed by the Toolkit? <sup>4</sup>		
s it feasible to meet the identified needs? <sup>5</sup>		

<sup>&</sup>lt;sup>3</sup> For example, in relation to resources, acceptability, and competing priorities. Possible reference section: NA2.2.2.

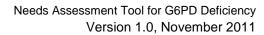
<sup>&</sup>lt;sup>4</sup> You may wish to consider the following questions: i) What are the main needs? ii) Is appropriate information available? iii) Are appropriate legislation, policies and programmes in place? iv) Are appropriate services and interventions in place? v) Are prevalence rates (both at birth and population level) as low as they can be? vi) Is prevention before pregnancy being delivered effectively, cost-effectively and according to need? vii) Is prevention during pregnancy being delivered effectively, cost-effectively and according to need? viii) Is prevention and care after birth being delivered effectively, cost-effectively and according to need? ix) Are prevention and care activities being delivered fairly (equitably)? Possible reference sections: NA2 and NA3

<sup>&</sup>lt;sup>5</sup> You may wish to consider strengths, weaknesses, opportunities and threats. Possible reference section: NA4.



What actions may be required to respond to the unmet needs?		
escribe how the prioritisation has been done and the main findings.		
· · · · · · · · · · · · · · · · · · ·		
ist the planned activities and how they will be evaluated.6		
ist the planned activities and now they will be evaluated.		

<sup>&</sup>lt;sup>6</sup> Possible reference section: NA5e





List the proposed next steps.	



## GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY TOOL APPENDIX 1

For demographic, socio-economic and other indicators for your country or world regions, you may use the links below or other sources available to you.

1. Consanguinity

http://www.consang.net/index.php/Global\_prevalence\_tables

- 2. Countdown to 2015 (profiles for selected countries) http://www.childinfo.org/countdown 638.htm
- 3. Global health Observatory (GHO) <a href="http://www.who.int/gho/en/index.html">http://www.who.int/gho/en/index.html</a>
- 4. Health Indicators database. Pan American Health Org (PAHO) <a href="http://ais.paho.org/phip/viz/basicindicatorbrowaser.asp">http://ais.paho.org/phip/viz/basicindicatorbrowaser.asp</a>
- 5. Health of Nations http://www.healthofnations.com/countries/map/outcomes/life
- 6. Immunisation

http://apps.who.int/immunization monitoring/en/globalsummary/countryprofileresult.cfm

- 7. Indicator definitions. (WHO) <a href="http://www.who.int/whosis/indicators/en">http://www.who.int/whosis/indicators/en</a>
- 8. UN Demographic Yearbook (UNDY) series http://unstats.un.org/unsd/demographic/products/dyb/dyb2.htm
- 9. UN Statistics Division

http://unstats.un.org/unsd/demographic/products/socind/health.htm

10. UNICEF country statistics

http://www.unicef.org/statistics/index\_countrystats.html

- 11. UNICEF reports on The State of the World's Children http://www.unicef.org/sowc08/statistics/statistics.php
- 12. WHO data and statistics (various links) <a href="http://www.who.int/research/en/">http://www.who.int/research/en/</a>
- 13. WHO Statistical Information System (WHOSIS) <a href="http://www.who.int/whosis/whostat/2010/en/index.html">http://www.who.int/whosis/whostat/2010/en/index.html</a>

Please list your own sources of data below

- 1.
- 2.