

































Selection of Slides	for QC
Selection of the sample (from regist	er)
Estimate smears exami	ned over period
Divide by sampling step	o = Z
Choose random numbe	r to start
≻LQAS method: from industry	
For smallest possible s	amples
One-sided test: confide	nce limits??
Outcome: not more vs.	More than x% error
Samples size needed: f	rom LQAS tables
Parameters to be set b	y NTP management
Confidence level (95%)	-
Acceptance number "D	" (specificity)
Critical value false Neg	ative - calculate
Prevalence Positive sm	nears, Desired sensitivity
Definition & size of lot:	Annual turn <sub>1</sub> over

Free Register	
Control F	Reading of Routine Smears
First screenir	ng at District/Regional level
	Blind checking absolutely necessary No results on the slides!! Coordinator keeps lists with results Do not overload controllers: 10 smears per day? Essentially same technique as centers
Re-staining p	rior to cross-checks is best
	Fading of Fuchsine colour Not to miss gross errors of stain/staining





![](_page_10_Figure_2.jpeg)

![](_page_11_Figure_1.jpeg)

![](_page_11_Figure_2.jpeg)

![](_page_12_Figure_1.jpeg)

![](_page_12_Picture_2.jpeg)

![](_page_13_Figure_1.jpeg)

![](_page_13_Picture_2.jpeg)

![](_page_14_Picture_1.jpeg)

FIND -									
Classification of Errors									
			Reference Lab Results						
		Neg	Sc.	1+	2+	3+			
	Neg	Correct	Correct SFN	HFN	HFN	HFN			
Center	SC	Correct SFP	Correct	Correct	QE	QE			
Lab Results	1+	HFP	Correct	Correct	Correct	QE			
	2+	HFP	QE	Correct	Correct	Correct			
	3+	HFP	QE	QE	Correct	Correct			
Correct QE LFN LFP HFN HFP			No Errors Qualification Low False Ne Low False Po High False N High False Po	Error Minor egative Minor ositive Minor egative Major ositive Major	Error Error Error Error Error				

![](_page_15_Figure_1.jpeg)

Quality Improvement	
<ul> <li>Process by which laboratory services are analyzed continuously to improve reliability, efficiency &amp; utilization</li> </ul>	
<ul> <li>Achieved by anticipating &amp; preventing problems rather than by identifying &amp; correcting problems after their occurrence</li> </ul>	
Most efficient during on-site visits	
32	

![](_page_16_Figure_1.jpeg)

![](_page_16_Figure_2.jpeg)

![](_page_17_Figure_1.jpeg)

![](_page_17_Figure_2.jpeg)

	Slide positivity rate (SPR%)				
Annualized no. of negative slides (ANSV) at the	2.5-4.9	5.0-7.49	7.5-9.9	10-14.9	<u>&gt;</u> 15
demonstration site	Monthly s	ample size <sup>1</sup>	of randomly re-checked	y selected sli	des to be
301-500	22	14	12	10	8
501-1000	28	18	12 💊	10	8
>1000	40	20	14	10	8
			C		

![](_page_18_Figure_2.jpeg)

![](_page_19_Figure_1.jpeg)

![](_page_19_Figure_2.jpeg)

![](_page_20_Figure_1.jpeg)

![](_page_20_Figure_2.jpeg)

Maximum gra	ading of (DRS	DMC & 6 : Guja	TRC Sm rat)	near Res	ults
	TRC Max. SMEAR				
DMC Max. Smear	1+	2+	3+	Neg	Total
Not available	1	2	2	1	6
1+	476	194	30	21	721
2+	375	278	73	8	734
3+	380	580	245	8	1213
SC	68	16	1	5	90
Total	1300	1070	351	43	2764