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AIM

RESULT

To reduce erroneous human mistakes made during the punching

Previously, technician has to manually fill in the sample ID \checkmark

of newborn dried blood spot samples.

METHODOLOGY

- Dried blood spot (DBS) samples are collected onto Guthrie \checkmark card from newborns, screening for inborn errors of metabolism.
- Each patient sample is assigned with an 11-digit barcoded \checkmark laboratory number.
- The Wallac DBS puncher software was installed into the \checkmark

on a hard copy plate map prior to punching samples. This could result in a mismatch between sample ID punched and written on plate map, especially when interrupted during punching process.

With the new implemented workflow, the sample ID \checkmark indicated on the LED panel of the puncher and an autogenerated worklist ensure the correct sample punched.

CONCLUSION

The introduction of barcode scanning of DBS samples reduces

computer connected to the puncher. A barcode scanner was

installed to scan the barcode labels.

potential human errors that could be made during the

punching process, as well as improves patient safety by

ensuring correct samples are punched and analysed.

Load the software and the desired assay worklist template.

Load a microtitre plate and prompt to punch in the controls.

Prompt to scan the barcode pasted on the sample.

PROCESS SUMMARY

Punch out a sample disk into the microtitre plate

End the punching process. A worklist is generated and printed.









Protocol: Screening Plate 1 (EVEN) Worklist 1 on 18/06/2015, Plate 1

1:	Test 1	E01:	20150618034
2 :	TEST 2	E02:	20150618035
3:	CDC 2	E03:	20150618036
4:	CDC 4	E04:	20150618037
5:	CDC 6	E05:	20150618038
б:	CDC 8	E06:	20150618039
7:	20151681516	E07:	20150618040
B :	20150617046	E08:	20150618041
9:	20150617048	E09:	20150618042
0:	20150617071	E10:	20150618043
1:	20150617072	E11:	20150618044
2:	20150617073	E12:	20150618045
1:	20150618901	F01:	20150618046
2:	20150618902	F02:	20150618047
3:	20150618001	F03:	20150618048
4:	20150618002	F04:	20150618049
5:	20150618003	F05:	20150618050
6:	20150618004	F06:	20150618051
7:	20150618005	F07:	20150618052
8:	20150618006	F08:	20150618053
9:	TEST 3	F09:	20150618054
0:	20150618007	F10:	20150618055
1:	20150618008	F11:	20150618056
2:	20150618009	F12:	20150618057
1:	20150618010	G01:	20150618058
2:	20150618011	G02:	20150618059
3:	20150618012	G03:	20150618060
4:	20150618013	G04:	20150618061
5:	20150618014	G05:	20150618062
6:	20150618015	G06:	20150618063
7:	20150618016	G07:	20150618064
8:	20150618017	G08:	20150618065
9:	20150618018	G09:	20150618066
0:	20150618019	G10:	20150618067
1:	20150618020	G11:	20150618068
2:	20150618021	G12:	20150618069
1:	20150618022	H01:	20150618070
2:	20150618023	H02:	20150618071
3:	20150618024	H03:	20150618903
4:	20150618025	H04:	20150618904
5 :	20150618026	H05:	20150618905
6:	20150618027	H06:	20150618906
7:	20150618028	H07:	20150616023
8 .	20150618029	H08:	20150616023
q.	20150618030	H09:	20151690887
ñ.	20150618031	H10:	LOW MSMS
1.	20150618032	H11:	HIGH MSMS
2.	20150618033	H12:	
6:	20130010033		
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