

Action Plan for Improvement in Response to Public Health Wales Data Breach

This document presents the Public Health Wales Action Plan that has been developed in response to the data breach incident that took place on the 30 August 2020. The action plan is in two parts. Part 1 details the immediate actions undertaken, primarily by the Communicable Disease Surveillance Centre (CDSC), upon identification of the data breach. Part 2 details the actions that will be undertaken in response to the recommendations outlined in the report of the external investigation report.

The actions are further delineated by timescale i.e. immediate, short term and longer term respectively, furthermore actions specifically for CDSC and longer term actions are identified separately.

Part 1: Remedial actions and improvements undertaken in response to the data breach in August 2020

Кеу:

Green – action complete

Blue – immediate/short term actions (Nov 2020-March 2021)

Yellow – longer term actions (April 2021 onwards)

	Action	Owner	Target Date
l.1	The table in question was removed from the Tableau public server to prevent further incidences of accidental publication.	CDSC	Completed
1.2	The use of tableau for disseminating individual-level identifiable data was immediately suspended.	CDSC	Completed
1.3	The publishing of external facing and internal facing reports were separated so that they are completed by different individuals at different times.	CDSC	Completed
L. 4	Publication of the public facing dashboard is now the responsibility of more experienced senior staff.	CDSC	Completed
1.5	Relevant standard operating procedures were updated to emphasise that the correct server is selected.	CDSC	Completed
1.6	The Surveillance rota team and analysts were briefed on the data breach with emphasis on inherent risks and controls over the publication of data.	CDSC	Completed
1.7	The process for sharing person level identifiable data using secure NHS Wales systems was strengthened.	CDSC	Completed
.8	The 'Out of hours' complaints procedures strengthened.	Assistant Director of Integrated Governance	Completed

Part 2: Action plan in response to the recommendations of the investigation into the data breach (November 2020)

Key:

Recommendation 1 – Root cause analysis, when properly implemented, is a comprehensive method of investigation that identifies the sequence of events that resulted in an adverse incident or a human error. In respect of the breach, PHWT should commit to a series of Information Governance audits to assess whether Standard Operating Procedures and Validation processes are sufficient to meet its current and changing Information processing responsibilities, which will help to reduce the Likelihood of the human factor reoccurring.

	Action	Owner	Target Date	Outcome
1.1	Develop a PHW organisational information handling audit plan with a programme of rolling controls and improvement audits and escalation process. *	Assistant Director of Integrated Governance	December 2020	Improved assurance over information handling systems and processes. Significantly reduced risk of further data breaches.
	Implement Year one of the audit plan.*		November 2021	More efficient and effective information handling procedures.
1.2	Develop and implement training on information risk handling for identified PHW information risk handling managers.*	Assistant Director of Integrated Governance	March 2021	Managers can demonstrate working knowledge and competency in information risk handling
1.3	Develop a CDSC process for the approval of new/revised data requests and information release methods and practices.#	Head of CDSC; Assistant Director of Integrated Governance	December 2020	A clear consistently applied process for data requests and information release. Any audit undertaken identify the process is working as expected. The viability of Information requests and the resultant release methods are assessed, approved and prioritised.
1.4	Revise and reissue the Small Numbers guidance to ensure that person level identifiable data is managed correctly.	Assistant Director of Integrated Governance	December 2020	Audits undertaken to ensure that no small numbers are inappropriately published

^{*}Actions to be implemented within existing organisational work plans

[#] Additional actions identified for implementation by CDSC team

	Action	Owner	Target Date	Outcome
	Recruit to workforce surveillance requirements as identified in the stage two operational plan to enable successful delivery (approved in October 2020).#	Deputy Director of Public Health Services/Acting Director of People and OD	January 2021	Optimum and resilient workforce establishment with CDSC.
	Review the CDSC rota and out of hours workforce arrangements and ensure this complies with the Working Time Directive/Organisational Policy. Ensure mechanisms for the ongoing review of workforce capacity are included.#	Head of CDSC	December 2020	Efficient and effective working arrangements for the CDSC team.
CO	mmendation 3 – PHW should develop a process to review	v outputs from CDSC's surv	eillance team. For e	example, to ensure that bespoke reports are (i) necessa
	ii) need to be maintained as long-term outputs. Any app		•	ked to provide an expiration date aligned with need, o
١W	should apply its own in order to ensure the surveillance	team has capacity to deal v	vith workloads.	
	Action	Owner	Target Date	Outcome
1	Undertake a peer review process by a similar organisation/function to include the CDSCs:	Deputy Director of Public Health Services	March 2021	Gain further leaning to continually drive improvemen
	 surveillance team processes for outputs; procedures to assess report requests, their necessity, longevity and expiration date; procedures for maintaining capacity to address fluctuating workload Develop a process for ongoing review of the CDSC's surveillance team outputs. # 	rubiic rieditii Services		

Recommendation 4 – This investigation identified a specific inherent risk associated with the software publication process for the specific internal and external dashboards referenced throughout this report. The scope of the investigation and the timescale involved did not allow for an assessment of other software used by PHW for similar purposes. As such, in due course, PHW should consider a full review of its information management, analysis and publication tools.

Any such review needs to consider the current demands on the workforce and the need to ensure data analysis and information outputs are not disrupted at this stage of the COVID19 pandemic.

	Action	Owner	Target Date	Outcome
4.1	Develop a programme to review the risks and controls	Informatics lead /	June 2021	Public Health Wales risk handling process identifies risk
	within and around PHW's information handling	Information		promptly and effective controls to mitigate any risks are
	software, analysis and publication tools (including	Governance		implemented.
	cyber security risks).*			
4.2	Develop a framework to specify information handling	Informatics /	June 2021	A consistent approach to procuring / developing all
	system requirements including control specifications	Information		internal / external information systems is in place and
	over publication software and processes for internal /	Governance		applied.
	external dashboards.*			

Recommendation 5 - We are aware that the CDSC surveillance team has updated its standard operating procedures in light of the data breach. These procedures must be regularly reviewed (aligned with Recommendation 1), updated and approved to ensure they reflect changes in working practices.

	Action	Owner	Target Date	Outcome
5.1	CDSC will produce and gain approval of a procedure to identify the governance arrangements for reviewing and updating SOPs within CDSC. #	Head of CDSC	January 2021	SOPs are kept up to date and are effective controls to mitigate risks.
	This will also feed in to the organisational Integrated Governance base line assessment.*	Assistant Director of Integrated Governance	January 2021	
5.2	Assess the feasibility of Office 365 to support PHW's document control/records management system architecture.* Undertake an options appraisal of a document control/records management system (Office 365 or alternative).*	Assistant Director of Integrated Governance	September 2021	Information, documents and records are managed and stored as per regulation and best practice guidance.

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	mmendation 6 - We were informed during the investigati	The state of the s		
				a communications plan aimed at raising staff awareness
of the	eir responsibilities in relation to incidents, including data			
C 1	Action	Owner	Target Date	Outcome
6.1	Review and reissue the Incident Management Policy	Assistant Director of	December 2020	Recorded incidents are all addressed efficiently within
	and Procedure including a proactive internal communications and awareness campaign.*	Integrated Governance		prescribed timescales.
6.2	Implement (when released) the all Wales data breach	Assistant Director of	ТВС	Consistent and timely reporting of future data breaches
0.2	reporting tool.*	Integrated Governance	TBC	or any other adverse incidents.
6.3	Implement a programme of ongoing refresher incident	Assistant Director of	January 2021	All staff fully aware and up to date with incident
0.5	management and reporting training and ensure this	Integrated Governance	January 2021	management and reporting procedures.
	training is embedded within staff induction.*	Integrated dovernance		management and reporting procedures.
Recor	mmendation 7 - PHW should consider a review of its app	roach to handling 'out of he	ours' emails and tele	ephone calls to ensure that urgent matters can be
	ed to an appropriate contact –who understands the esca	_		-,
	Action	Owner	Target Date	Outcome
7.1	The National Contact Centre (NCC) and National Health	Assistant Director of	November 2020	An effective process is in place for handling out of hours
	Protection Cell (NHPC) Oversight and Governance	Public Health Services		concerns/issues/incidents accordingly and all NCC and
	Groups will review and strengthen the 'out of hours'			NHPC staff comply with 'out of hours' procedures.
	management of urgent matters by identifying and			
	implementing improvements.			
	mmendation 8 - PHW should consider undertaking a trair	•		
	nformation, have appropriate and targeted training. Train		•	·
-	•	levant to their role. This sh	ould help staff deve	elop an even greater understanding of the risks associated
with _I	processing personal data.	T -	T	1.
	Action	Owner	Target Date	Outcome
8.1	A training needs analysis will be undertaken for CDSC	Acting Director of	December 2020	All CDSC staff understand the data handling systems and
	staff responsible for processing and disseminating	People and		comply with control procedures.
	data.#	OD/Assistant Director of		
0.2	CDCC line memore and staff with responsibility for	Integrated Governance	December 2020	CDCC information and armound training up to date and
8.2	CDSC line managers and staff with responsibility for	Acting Director of	December 2020	CDSC information governance training up to date and
	processing and disseminating data should ensure that	People and OD/All Executive Directors		compliant.
	mandatory Information Governance training is	Executive Directors		
0.2	complete and up to date. #	Asting Divostor of	January 2024	Accuracy as that all to shoring land as start along as the first
8.3	Following the completion of the CDSC Training Needs	Acting Director of	January 2021	Assurance that all technical and control elements of
	Analysis a training package and/or resources to be	People and		CDSC data handling systems are understood from an
	developed or procured that will address identified	OD/Assistant Director of		information governance perspective.

Integrated Governance

gaps.#