Falls and Fragility Audit Programme: National Hip Fracture Database (NHFD) data flow diagram

	NHS Trusts and Local Health Boards	Crown Informatics (IT Contractors)	University of Bristol (Analysis contractor)	Royal College of Physicians	NHS England (NHSE) Data linkage	Third party applicants
		NHFD data controllers: Healthcare Quality Improvement Partnership (HQIP), NHS England (NHSE) and Digital Health and Care Wales (DHCW) Data processors: Crown Informatics, Royal College of Physicians (RCP), Bristol University and NHS England (NHSE)	NHFD data controllers: HQIP, NHSE and DHCW Data processors: University of Bristol, RCP, Crown Informatics Linked data controller: Multiple	NHFD data controllers: HQIP, NHSE and DHCW Data processor: RCP	NHFD Data controllers: HQIP. NHSE and DHCW Data processors: Crown Informatics, RCP and NHSE Linked data controller: Multiple	NHFD data controllers: HQIP, NHSE and DHCW Data processors: Crown Informatics and RCP Linked data controller: Multiple For more information on data sharing for uses outside of the NHFD, please see: NCAPOP Privacy Notice – HQIP.
Processing	Trusts/LBHs sends identifiable FFFAP audit data to web tool. Identifiable; sensitive Trusts/LBHs download extracts from web tool for local use. Identifiable; sensitive	FFFAP Database Identifiable; sensitive Crown Informatics sends: · NHS number · Date of Birth · Sex · Full postcode · FFFAP study ID to NHSE Crown Informatics link validated identifiers and Civil Registration data with FFFAP data. Identifiable; sensitive FFFAP database Identifiable with Civil Registration data.	The University of Bristol analyse data to produce audit outputs. The University of Bristol analyse data to produce outputs.		NHSE DARS link data and provide - List cleaning file (validated identifiers) + FFFAP ID - Civil Registration Date of death + FFFAP ID	**Key** Green = identifiable (s251 support) Blue = identifiable (individual applicant s251 support) Yellow = Pseudonymised Purple = Anonymised, not aggregated Red = Anonymised and aggregated **Unlinked data** NHFD anonymised dataset transferred to third party once applicant data request has been approved by the RCP and HQIP. Sensitive **Linked data** Crown transfer identifiable, patient-level audit data to NHSE and DHCW when a request has been approved by the RCP and HQIP. NHSE transfer HES and Civil Registration data to third party applicant (following application to NHSE DARS and facilitated by Crown and the RCP. Third party analyse data and produce audit and research outputs.
Outputs	Registered individuals at Trusts/LBHs can access date of death for patients they submit to the audit derived from Civil Registration mortality data. Identifiable, sensitive Run charts and tables using anonymised and aggregated data available publicly.		The University of Bristol publish findings (post approval by the RCP and HQIP's DARG process).	RCP provide commentary and publish state of nation annual report. RCP submit conference abstracts and audit findings. RCP publish audit findings.		Third party publish research findings. Anonymised and aggregated and small numbers suppressed.

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