National Audit of Breast Cancer in Older Patients (NABCOP): Data Flow Diagram

		Data processing: National Cancer F	Registration & Analysis Service (PHE)		Data processing: Clinic	al Effectiveness Unit (CEU).
Existing datasets	National Cancer Registration & Analysis Service (NCRAS) Data Controller: PHE Data Processor: NCRAS (PHE)	National Cancer Registration & Analysis Service (NCRAS) Data Controller: PHE Data Processor: NCRAS (PHE)	Data Linkage Data Controller: PHE Data Processor: NCRAS (PHE)	<u>Secudonymisation</u> <u>& National data opt-out</u> National Cancer Registration & Analysis Service (NCRAS) Data Controller: PHE Data Processor: NCRAS (PHE) <u>Release</u> Data Controller: PHE Date Processor: Office for Data Release (ODR), PHE	Royal College of Surgeons (RCS) CEU: Processing of pseudonymised data.	RCS CEU Outputs: Anonymised and Aggregated.
Cancer Outcomes and Services Dataset (COSD) / Data to register patient/Cancer registry (CR) data Controller(:): Trusts (Identifiable / sensitive)	NCRAS load and process COSD/CR (core, breast, pathology) data into ENCORE (Identifiable / sensitive)		→ NCRAS link NABCOP extract to unprocessed COSD data			
Hospital Episode Statistics (HES) Data Controller: NHS Digital (Identifiable / sensitive)			NCRAS link NABCOP extract to HES data	NCRAS pseudonymisation NABCOP extract. * NHS number replaced with Registry Patient ID.	RCS CEU Receive the pseudonymised NABCOP extract. (Sensitive: Trust/hospital	RCS CEU Annual Report(s). (Anonymised & aggregated)
ONS Mortality Data Controller: ONS (Identifiable / sensitive)	NCRAS transfer data into Cancer Analysis System (CAS) (core, breast, pathology) data into ENCORE (Identifiable / sensitive)	NCRAS extract patients diagnosed with breast cancer who meet eligibility criteria for NABCOP from CAS (NABCOP extract)	NCRAS link NABCOP extract to ONS data	DoB replaced with age at diagnosis. Postcode replaced with LSOA. (Sensitive) National data opt-out implemented		RCS CEU → Audit benchmarking website (Anonymised & aggregated)
National radiotherapy data (RTDS) Controller: PHE (Identifiable / sensitive)		(Identifiable / sensitive)	RTDS data NCRAS link NABCOP extract to		produce results on process and outcome indicators	HS choices / CQC metrics → Based on results from annual reports
National chemotherapy data (SACT) Controller: PHE (Identifiable / sensitive)			SACT data NCRAS link NABCOP extract to	ODR release Pseudonymised NABCOP extract. (Sensitive: : Trust/hospital site, consultant)	ļ.	RCS CEU Peer-reviewed articles, conference presentations. (Anonymised & aggregated)
Cancer Patient Experience Survey (CPES) Controller: NHS England (Identifiable / sensitive)			CPES data NCRAS link NABCOP extract to DID			
Diagnostic Imaging Dataset (DID) Controller: PHE			data NCRAS link NABCOP extract to			
Cancer Waiting Times (CWT) Controller: NHS England (Identifiable / sensitive)			CWT data.			
NHS Breast Screening Programme (NHSBSP) / Association of Breast Surgery (ABS) UK breast screening audit.			NCRAS link NABCOP extract to EPD data (pilot extract received in 2020).			
Controller: PHE (Identifiable / sensitive) English Prescribing Dataset (EPD) Controller: NFS Business Services Authority (Identifiable / sensitive)			(Identifiable / sensitive)		Grey = Welsh dat Italics = Future da	nised. d and Aggregated. asets.
National Welsh Cancer Registry (NWCR) datasets Controller: Cancer Network Registration Information System Cymru (CANISC) (Identifiable / sensitive)	CANISC data extraction: Relevant Breast Cancer data. ((dentifiable /		CANISC/WIC linkage: NWCR Breast Cancer data to PEDW. (Identifiable / sensitive)	CANISC/WIC pseudonymisation and release. (Sensitive)		
Patient Episode Database for Wales (PEDW) Data Controller: Wales Information Centre (WIC).	sensitive)					