



Llywodraeth Cymru
Welsh Government



GIG
CYMRU
NHS
WALES | Gwasanaeth
Gwybodeg
Informatics
Service

Substance Misuse Secondary Uses Data Set

Implementation Date: 1st April 2014

Data Quality / Verification Rules

Version: 2.0 Final

Author: Data Standards, NWIS

Introduction

The Substance Misuse Data Set will be subject to a number of data quality checks.

Data quality can be considered as having six “dimensions” and these dimensions can be visualised as individual pieces of a data quality ‘jigsaw’. Only by fitting all six pieces together and completing the jigsaw can a complete picture of the quality of an organisation’s data be obtained.



The timeliness, completeness, validity, consistency, precision and accuracy of organisation’s data directly affects the reliability of the information used to support these processes. Poor quality data has a significant impact on how the service is managed and affects the quality of care on offer to clients. In the case of national data sets, the quality of the data also has a direct impact on the reported organisations performance against the nationally-agreed targets issued by Welsh Government.

Data Quality Checks

Data Item	Verification Rules	Format	Check Type
Client Details			
NHS Number	Must not contain alphabetical characters and must be a valid NHS number as defined by the NHS Wales Data Dictionary	10 character numeric	Data Validity Check
First Letter of Surname	Must not be blank or numerical	1 character alpha	Schema / Load Check
First Letter of Forename	Must not be blank or numerical	1 character alpha	Schema / Load Check
Date of Birth	<p>Must not be blank and must be in ccyyymmdd format where this can be translated to a valid date in the form YYYY-MM-DD</p> <p>A valid date which makes the patient of an age 125 years or older is also classed as invalid</p> <p>In exceptional circumstances where the date of birth is unknown, the default code 18111111 should be used</p>	8 character numeric	Schema / Load Check
Gender	Must not be blank and must be populated with a valid value as described in the NHS Wales Data Dictionary	1 character numeric	Schema / Load Check
Ethnic Category	Must not be blank and must be populated with a valid value as described in the NHS Wales Data Dictionary	1 character alpha-numeric	Data Validity Check
Reduced Postcode	Postcode must be active at the admission date and adhere to the formats set out in the data dictionary definition	6 character alpha-numeric	Data Validity Check
Local Authority	Must not be blank and must be populated with a valid value as described in the NHS Wales Data Dictionary	3 character numeric	Data Validity Check
Referral Details			
Agency Code	Must not be blank and must be populated with a valid value as described in the NHS Wales Data Dictionary	6 character alpha-numeric	Schema / Load Check
Agency Client Number	Must not be blank	15 character alpha-numeric	Schema / Load Check
Date of Referral	Must not be blank and must be in	8 character	Schema / Load Check

	ccyymmdd format where this can be translated to a valid date in the form YYYY-MM-DD Date must be historic (i.e. on or before the current date)	numeric	
Source of Referral	Must not be blank and must be populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Assessment Details			
Assessment Date	Must not be blank and must be in ccyymmdd format where this can be translated to a valid date in the form YYYY-MM-DD Date must be historic (i.e. on or before the current date)	8 character numeric	Schema / Load Check
Previously Treated	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	1 character numeric	Data Validity Check
Ex Services Personnel	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	1 character numeric	Data Validity Check
Parental Responsibility	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Children Living in Household	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Problem Substance 1	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	4 character numeric	Data Validity Check
Problem Substance 2	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	4 character numeric	Data Validity Check
Problem Substance 3	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	4 character numeric	Data Validity Check
Injecting Status	Must be either blank or	2 character	Data Validity Check

	populated with a valid value as described in the NHS Wales Data Dictionary	numeric	
Hepatitis B Vaccination Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Blood Borne Virus Test Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Co-occurring Mental Health Issues	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Accommodation Need	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Employment Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Treatment Modality Details			
Treatment Modality Type	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Schema / Load Check
Modality Referral Date	Must be either blank or submitted in ccymmd format where this can be translated to a valid date in the form YYYY-MM-DD Date must be historic (i.e. on or before the current date)	8 character numeric	Schema / Load Check
Date First Appointment Offered for Modality	Must be either blank or submitted in ccymmd format where this can be translated to a valid date in the form YYYY-MM-DD Date must be historic (i.e. on or before the current date)	8 character numeric	Data Validity Check
Modality Start Date	Must be either blank or submitted in ccymmd format where this can be translated to a	8 character numeric	Data Validity Check

	<p>valid date in the form YYYY-MM-DD</p> <p>Date must be historic (i.e. on or before the current date)</p>		
Modality End Date	<p>Must be either blank or submitted in ccymmdd format where this can be translated to a valid date in the form YYYY-MM-DD</p> <p>Date must be historic (i.e. on or before the current date)</p>	8 character numeric	Data Validity Check
Modality Exit Status	<p>Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary</p>	2 character numeric	Data Validity Check
Treatment Outcome Profile (TOP) Details			
TOP Number	<p>Must be either blank or submitted with a numerical value AND</p> <p>Must be unique for each TOP</p>	6 character numeric	Schema / Load Check
TOP Interview Date	<p>Must be either blank or submitted in ccymmdd format where this can be translated to a valid date in the form YYYY-MM-DD</p> <p>Date must be historic (i.e. on or before the current date)</p>	8 character numeric	Schema / Load Check
Treatment Stage	<p>Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary</p>	2 character numeric	Data Validity Check
Number of Days Alcohol Used	<p>Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary</p>	2 character numeric	Data Validity Check
Number of Days Opiate Used	<p>Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary</p>	2 character numeric	Data Validity Check
Number of Days Crack Used	<p>Must be either blank or populated with a valid value as described in the NHS Wales Data</p>	2 character numeric	Data Validity Check

	Dictionary		
Number of Days Cocaine Used	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Number of Days Amphetamines Used	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Number of Days Cannabis Used	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Other Problem Substance Used	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	4 character numeric	Data Validity Check
Number of Days Other Substance Used	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Number of Days Non-Prescribed Drugs Injected	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Injected with Needle or Syringe used by Someone else	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	1 character numeric	Data Validity Check
Number of Days Shoplifting	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Number of Days Selling Drugs	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Criminal Offence Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Assault or Violence Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Psychological Health Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Number of Days Paid Work	Must be either blank or populated with a valid value as	2 character numeric	Data Validity Check

	described in the NHS Wales Data Dictionary		
Number of Days Attended College or School	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Physical Health Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Urgent Housing Problem Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Risk of Eviction Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Quality of Life Status	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check
Discharge Details			
Date Contact Ended	Must be either blank or submitted in ccymdd format where this can be translated to a valid date in the form YYYY-MM-DD Date must be historic (i.e. on or before the current date)	8 character numeric	Schema / Load Check
Reason Contact Ended	Must be either blank or populated with a valid value as described in the NHS Wales Data Dictionary	2 character numeric	Data Validity Check

Data Item 1	Data Item 2	Verification Rules	Check Type
Date of Birth	Date of Referral	Date of Birth <= Date of Referral	Data Consistency Check
Date of Referral	Assessment Date	Date of Referral <= Assessment Date	Data Consistency Check
Previously Treated	Assessment Date	Previously Treated must be completed when Assessment Date is non-blank	Data Consistency Check
Ex Services Personnel	Assessment Date	Ex Services Personnel must be completed when Assessment Date is non-blank	Data Consistency Check
Parental Responsibility	Assessment Date	Parental Responsibility must be completed when Assessment Date is non-blank	Data Consistency Check
Children Living in Household	Assessment Date	Children Living in Household must be completed when Assessment Date is non-blank	Data Consistency Check
Problem Substance 1	Assessment Date	Problem Substance 1 must be completed when Assessment Date is non-blank	Data Consistency Check
Problem Substance 2	Assessment Date	Problem Substance 2 must be completed when Assessment Date is non-blank	Data Consistency Check
Problem Substance 3	Assessment Date	Problem Substance 3 must be completed when Assessment Date is non-blank	Data Consistency Check
Injecting Status	Assessment Date	Problem Substance 3 must be completed when Assessment Date is non-blank	Data Consistency Check
Hepatitis B Vaccination Status	Assessment Date	Problem Substance 3 must be completed when Assessment Date is non-blank	Data Consistency Check
Blood Borne Virus Test Status	Assessment Date	Problem Substance 3 must be completed when Assessment Date is non-blank	Data Consistency Check
Co-occurring Mental Health Issues	Assessment Date	Problem Substance 3 must be completed when Assessment Date is non-blank	Data Consistency Check
Accommodation Need	Assessment Date	Problem Substance 3 must be completed when Assessment Date is non-blank	Data Consistency Check
Employment Status	Assessment Date	Problem Substance 3 must be completed when Assessment Date is non-blank	Data Consistency Check
Treatment Modality	Modality Referral Date	Treatment Modality must be completed when Modality Referral Date is non-blank AND Modality Referral Date must be completed when Treatment Modality is non-blank	Data Consistency Check
Treatment Modality	Date First Appointment Offered for Modality	Treatment Modality must be completed when Date First Appointment Offered for Modality is non-blank AND Date First Appointment Offered for Modality must be completed when Treatment Modality is non-blank	Data Consistency Check
Treatment Modality	Modality Start Date	Treatment Modality must be completed when Modality Start Date is non-blank AND Modality Start Date must be completed when Treatment Modality is non-blank	Data Consistency Check

Data Item 1	Data Item 2	Verification Rules	Check Type
Treatment Modality	Modality End Date	Treatment Modality must be completed when Modality Start Date is non-blank AND Modality Start Date must be completed when Treatment Modality is non-blank	Data Consistency Check
Treatment Modality	Modality Exit Status	Treatment Modality must be completed when Modality Exit Status is non-blank AND Modality Exit Status must be completed when Treatment Modality is non-blank	Data Consistency Check
Modality Referral Date	Date First Appointment Offered for Modality	Modality Referral Date must be completed when Date First Appointment Offered for Modality is non-blank AND Date First Appointment Offered for Modality must be completed when Modality Referral Date is non-blank AND Modality Referral Date <= Date First Appointment Offered for Modality	Data Consistency Check
Modality Referral Date	Modality Start Date	Modality Referral Date must be completed when Modality Start Date is non-blank AND Modality Start Date must be completed when Modality Start Date is non-blank AND Modality Referral Date <= Modality Start Date	Data Consistency Check
Modality Referral Date	Modality End Date	Modality Referral Date must be completed when Modality Start Date is non-blank AND Modality Start Date must be completed when Modality Referral Date is non-blank AND Modality Referral Date <= Modality End Date	Data Consistency Check
Modality Referral Date	Modality Exit Status	Modality Referral Date must be completed when Modality Exit Status is non-blank AND Modality Exit Status must be completed when Modality Referral Date is non-blank	Data Consistency Check
Modality Referral Date	Date of Birth	Date of Birth <= Modality Referral Date	Data Consistency Check

Data Item 1	Data Item 2	Verification Rules	Check Type
Date First Appointment Offered for Modality	Modality Start Date	Date First Appointment Offered for Modality must be completed when Modality Start Date is non-blank AND Modality Start Date must be completed when Date First Appointment Offered for Modality is non-blank AND Date First Appointment Offered for Modality <= Modality Start Date	Data Consistency Check
Date First Appointment Offered for Modality	Modality End Date	Date First Appointment Offered for Modality must be completed when Modality End Date is non-blank AND Modality End Date must be completed when Date First Appointment Offered for Modality is non-blank AND Date First Appointment Offered for Modality <= Modality End Date	Data Consistency Check
Date First Appointment Offered for Modality	Modality Exit Status	Date First Appointment Offered for Modality must be completed when Modality Exit Status is non-blank AND Modality Exit Status must be completed when Date First Appointment Offered for Modality is non-blank	Data Consistency Check
Date First Appointment Offered for Modality	Date of Referral	Date of Referral <= Date First Appointment Offered for Modality	Data Consistency Check
Modality Start Date	Modality End Date	Modality Start Date must be completed when Modality End Date is non-blank AND Modality End Date must be completed when Modality Start Date is non-blank AND Modality Start Date <= Modality End Date	Data Consistency Check
Modality Start Date	Modality Exit Status	Modality Start Date must be completed when Modality Exit Status is non-blank AND Modality Exit Status must be completed when Modality Start Date is non-blank	Data Consistency Check
Modality Start Date	Assessment Date	Assessment Date <= Modality Start Date	Data Consistency Check
Modality Start Date	Discharge Date	Modality Start Date <= Discharge Date	Data Consistency Check

Data Item 1	Data Item 2	Verification Rules	Check Type
Modality End Date	Modality Exit Status	Modality End Date must be completed when Modality Exit Status is non-blank AND Modality Exit Status must be completed when Modality End Date is non-blank	Data Consistency Check
Modality End Date	Discharge Date	Modality End Date <= Discharge Date	Data Consistency Check
TOP Interview Date	Date of Referral	Date of Referral <= TOP Interview Date	Data Consistency Check
TOP Interview Date	Assessment Date	Assessment Date <= TOP Interview Date	Data Consistency Check
TOP Interview Date	Treatment Stage	Treatment Stage must be completed when TOP Interview Date is non-blank	Data Consistency Check
Reason Contact Ended	Modality End Date	Modality End Date must not be completed when Reason Contact Ended is 04 (Referred to another service)	Data Consistency Check
Number of Days Alcohol Used	TOP Interview Date	Number of Days Alcohol Used must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Opiate Used	TOP Interview Date	Number of Days Opiate Used must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Crack Used	TOP Interview Date	Number of Days Crack Used must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Cocaine Used	TOP Interview Date	Number of Days Cocaine Used must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Amphetamines Used	TOP Interview Date	Number of Days Amphetamines Used must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Cannabis Used	TOP Interview Date	Number of Days Cannabis Used must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Other Problem Substance Used	TOP Interview Date	Number of Days Other Problem Substance Used must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Other Problem Substance Used	Other Problem Substance Used	Number of Days Other Problem Substance Used must be completed when Other Problem Substance Used is non-blank AND Other Problem Substance Used must be completed when Number of Days Other Problem Substance Used is non-blank	Data Consistency Check
Number of Days Non-Prescribed Drugs Injected	TOP Interview Date	Number of Days Non-Prescribed Drugs Injected must be completed when TOP Interview Date is non-blank	Data Consistency Check
Injected with Needle or Syringe Used by Somebody Else	TOP Interview Date	Injected with Needle or Syringe Used by Somebody Else must be completed when TOP Interview Date is non-blank	Data Consistency Check

Data Item 1	Data Item 2	Verification Rules	Check Type
Number of Days Shoplifting	TOP Interview Date	Number of Days Shoplifting must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Selling Drugs	TOP Interview Date	Number of Days Selling Drugs must be completed when TOP Interview Date is non-blank	Data Consistency Check
Criminal Offence Status	TOP Interview Date	Criminal Offence Status must be completed when TOP Interview Date is non-blank	Data Consistency Check
Assault or Violence Status	TOP Interview Date	Assault or Violence Status must be completed when TOP Interview Date is non-blank	Data Consistency Check
Psychological Health Status	TOP Interview Date	Psychological Health Status must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Paid Work	TOP Interview Date	Number of Days Paid Work must be completed when TOP Interview Date is non-blank	Data Consistency Check
Number of Days Attended College or School	TOP Interview Date	Number of Days Attended College or School must be completed when TOP Interview Date is non-blank	Data Consistency Check
Physical Health Status	TOP Interview Date	Physical Health Status must be completed when TOP Interview Date is non-blank	Data Consistency Check
Urgent Housing Problem Status	TOP Interview Date	Urgent Housing Problem Status must be completed when TOP Interview Date is non-blank	Data Consistency Check
Risk of Eviction Status	TOP Interview Date	Risk of Eviction Status must be completed when TOP Interview Date is non-blank	Data Consistency Check
Quality of Life Status	TOP Interview Date	Quality of Life Status must be completed when TOP Interview Date is non-blank	Data Consistency Check
Discharge Date	Assessment Date	Assessment Date <= Discharge Date	Data Consistency Check
Discharge Date	Referral Date	Referral Date <= Discharge Date	Data Consistency Check
Reason Contact Ended	Discharge Date	Reason Contact Ended must be completed when Discharge Date is non-blank AND Discharge Date must be completed when Reason Contact Ended is non-blank	Data Consistency Check

Data Item 1	Data Item 2	Data Item 3	Verification Rules	Check Type
TOP Interview Date	Treatment Stage	Modality Start Date	When Treatment Stage = 01 (Treatment Start Outcome Profile), TOP Interview Date <= Modality Start Date AND When Treatment Stage = 02 (Review Treatment Outcome Profile) or 03 (Treatment Exit Outcome Profile), Modality Start Date <= TOP Interview Date	Data Consistency Check

TOP Interview Date	Treatment Stage	Modality End Date	When Treatment Stage = 01 (Treatment Start Outcome Profile) or 02 (Review Treatment Outcome Profile), TOP Interview Date <= Modality End Date AND When Treatment Stage = 03 (Treatment Exit Outcome Profile), Modality End Date <= TOP Interview Date	Data Consistency Check
TOP Interview Date	Treatment Stage	Discharge Date	When Treatment Stage = 01 (Treatment Start Outcome Profile), TOP Interview Date <= Discharge Date AND When Treatment Stage = 03 (Treatment Exit Outcome Profile), TOP Interview Date <= Discharge Date + 14 days AND TOP Interview Date >= Discharge Date - 14 days	Data Consistency Check

-