Data Quality (CDSA)

Overview

The CDSA Tool has been developed to report on the completeness of patient demographic and health summary data within the general practice clinica
following reports:

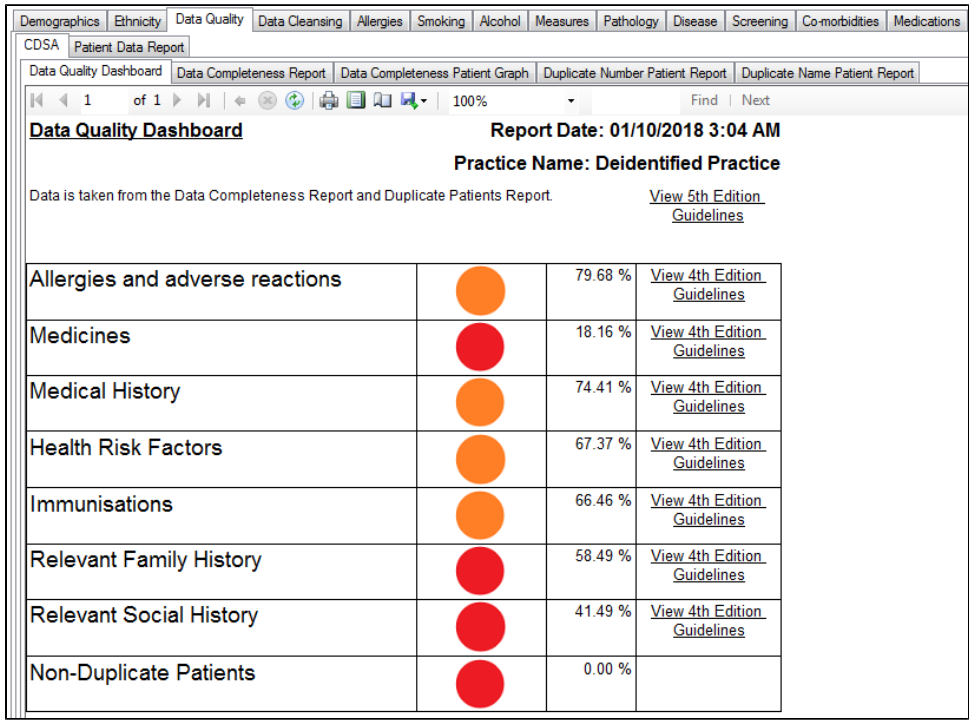
- '**Data Quality Dashboard Report**' to indicate the overall status of data quality based on the data indicators.
- '**Data Completeness Report**' to report the % of completeness for each data indicator.
- '**Data Completeness Patient Graph**' to provide a graphical view of the data indicators and allow re-identification of patients where data is missing
- '**Duplicate Patients Report**' to list patient records within the clinical system where duplication is suspected.

We provide links to the 4th edition fact sheets because the RACGP has not created fact sheets for the current fifth edition. There has details between 4th and 5th editions.

The CDSA Tool is available in CAT Version 3 for clinical systems where the CAT data extract meets to CAT data specifications version 1_12 or higher CAT4 view under the 'Data Quality' tab. Under that tab are four different tabs which are described in more detail below.

Please note that the percentages shown on the Data Quality Dashboard are an in some cases an average value of the individual indicators. T reaction dashboard is a combination of Allergy Status recorded, Coded Allergy recorded and Reaction Completed.

Generally speaking the Data Completeness Report will give much more detail than the dashboard and is the recommended report to understa



Data Indicators	The data indicators are based on the data content outlined in the RACGP data recommendations http://www.racgp.org.au/ehealth/summary and are grouped into sections as follows: 1. Allergies and Adverse Reactions 2. Medicines 3. Medical History 4. Health Risk Factors 5. Immunisations 6. Relevant Family History 7. Relevant Social History Detailed data indicator information is provided in Appendix A at the end of this guide. Some indicators may not be available for some clinical systems. These are provided in Appendix B at the end of this guide.
Data Quality Dashboard	

Data Quality > Dashboard Report

The Data Quality Dashboard provides a report indicating the overall status of data quality based on the data indicators. It displays each data content se
icon
calculated from the % completeness of each data indicator within the section. Each indicator contributes equal weight to the overall status Indicators th
system do not contribute to the overall status.
.

The 'Traffic Light' status icons will display:
RED : 0 – 60% for all
ORANGE : > 60 – 90% for allergies, >60 - 75% for the other indicators
GREEN : > 90% for allergies, >75% for the other indicators

An additional section for 'Duplicate Patients' is included. The dashboard status for this section is calculated as the percentage of patients where no pot
Note: There will always be some potential duplication that is not an error but with a 'clean' database this should be small and the status icon should be

The Data Quality Dashboard provides links to the relevant RACGP fact sheets which provide information on addressing identified gaps and improving
RACGP has not published

updated fact sheets for the 5th Edition of their guidelines, but the recommendations have not changed.

Data Quality Dashboard **Report Date: 01/10/2018 3:04 AM**

Practice Name: Deidentified Practice

Data is taken from the Data Completeness Report and Duplicate Patients Report. View 5th Edition Guidelines

Allergies and adverse reactions		79.68 %	View 4th Edition Guidelines
Medicines		18.16 %	View 4th Edition Guidelines
Medical History		74.41 %	View 4th Edition Guidelines
Health Risk Factors		67.37 %	View 4th Edition Guidelines
Immunisations		66.46 %	View 4th Edition Guidelines
Relevant Family History		58.49 %	View 4th Edition Guidelines
Relevant Social History		41.49 %	View 4th Edition Guidelines
Non-Duplicate Patients		0.00 %	

Data Completeness Reports

Data Quality > Data Completeness Report

The Completeness Report provides a % of completeness for each data indicator.

For each data indicator the report displays:
Measure = measure description
Count = the number of data items correctly recorded
Eligible population = the possible number of data items for this measure (the measure denominator)
% = the count as a % of the eligible population

The eligible population is generally Active patients (3 visits in the last 2 years). Where an indicator has a different denominator this is highlighted on th

Indicators that are not available for a clinical system are highlighted in the report as 'Not Available'.

1 of 1 100% Find | Ne

Data Completeness Report **Report Date: 15/12/2011**

Practice Name: MELB2-234

* Eligible Population = Active patients except where the denominator is specificied with the measure
An Active patient has had 3 visits in the last 2 years

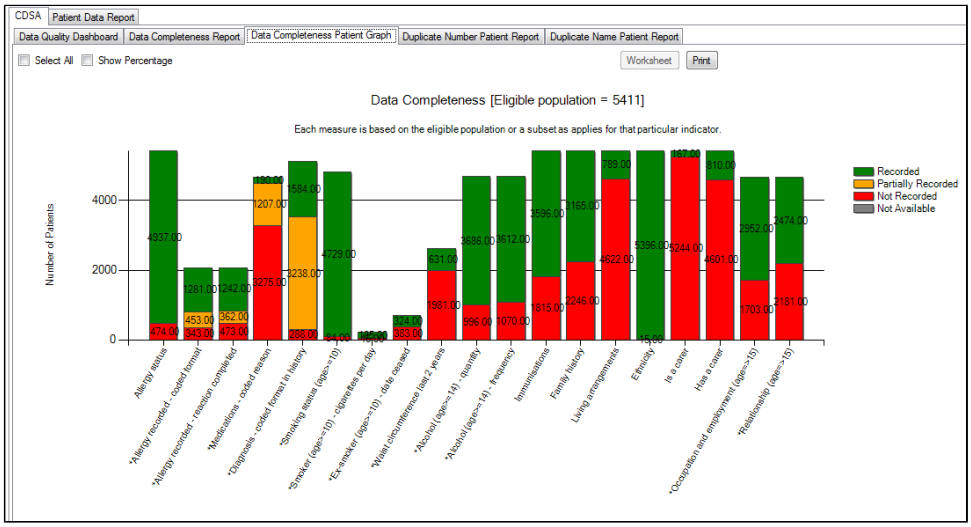
Measure	Count	Eligible Population*	%
Allergies and adverse reactions			
Allergy status recorded	3915	4035	97.03 %
Allergy recorded - coded format (denominator = number of allergies for eligible population)	Not Available		
Allergy recorded - description completed (denominator = number of allergies for eligible population)	527	1360	38.75 %
Medicines			
Medications - coded reason for prescribing recorded (denominator = number of scripts for eligible population)	286	11783	2.43 %

Data Quality > Data Completeness Graph

The Completeness graph provides a graphical view of the data indicators **by patient** and allows re-identification of patients where data is missing.

For each data indicator the report displays a patient in one of the following categories:
Green = Recorded (all items for this measure are recorded)
Orange = Partially recorded (some items for this measure are recorded)
Red = Not recorded (no items for this measure are recorded)
Grey = Not Available (no items for this measure are available for recording)

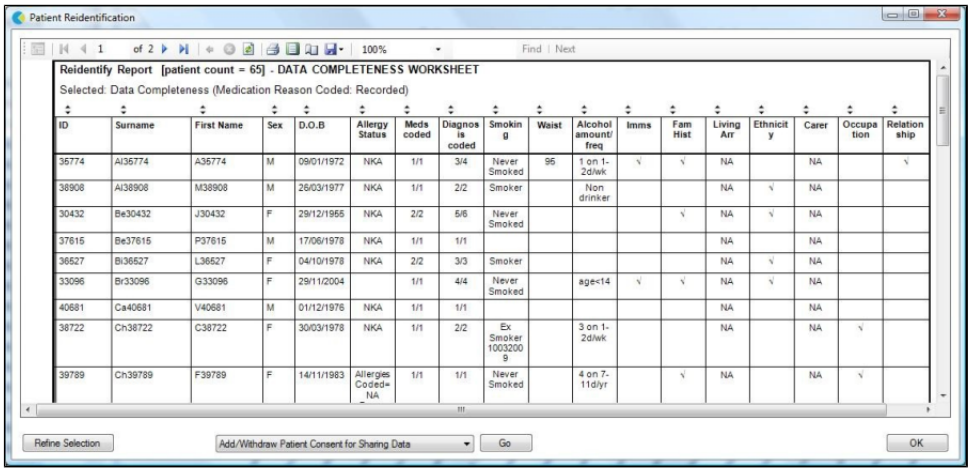
The eligible population is the Active patients (3 visits in the last 2 years). Where an indicator has a subset denominator this is highlighted in the report



Data Completeness Worksheet

Patient data can be exported from the Data Completeness Graph using the 'Worksheet' button.

The worksheet provides patient demographic details and a summary of the data contributing to each indicator. This allows missing data to be easily id



ID	Surname	First Name	Sex	D.O.B	Allergy Status	Meds coded	Diagnosis coded	Smoking	Waist	Alcohol amount/freq	Imms	Fam Hist	Living Arr	Ethnicity	Carer	Occupation	Relationship
35774	Al35774	A35774	M	09/01/1972	NKA	1/1	3/4	Never Smoked	95	1 on 1-2d/wk	√	√	NA		NA		√
38908	Al38908	M38908	M	26/03/1977	NKA	1/1	2/2	Smoker		Non drinker			NA	√	NA		
30432	Be30432	J30432	F	29/12/1955	NKA	2/2	5/6	Never Smoked				√	NA	√	NA		
37615	Be37615	P37615	M	17/06/1978	NKA	1/1	1/1						NA		NA		
36527	Bl36527	L36527	F	04/10/1978	NKA	2/2	3/3	Smoker					NA	√	NA		
33096	Br33096	G33096	F	29/11/2004		1/1	4/4	Never Smoked		age<14	√	√	NA	√	NA		
40681	Ca40681	V40681	M	01/12/1976	NKA	1/1	1/1						NA		NA		
38722	Ch38722	C38722	F	30/03/1978	NKA	1/1	2/2	Ex Smoker 10032009		3 on 1-2d/wk			NA		NA	√	
39789	Ch39789	F39789	F	14/11/1983	Allergies Coded=NA	1/1	1/1	Never Smoked		4 on 7-11d/yr		√	NA		NA	√	

DataQuality> Duplicate Patients Report

The Duplicate Patients Report is a list of patient records within the clinical system where duplication is suspected.

The report is divided into 2 parts:

- Name match – a match on all of:

  Surname, First name initial, Gender **and** DOB

Data Quality Dashboard | Data Completeness Report | Data Completeness Patient Graph | Duplicate Number Patient Report | Duplicate Name Patient Report

1 of 1 100% Find | Next

Duplicate Name Patient Report

Report Date: 02/09/2019 1:34 PM

Practice Name: WIN10MD3

Match on ALL of: surname, first name initial, gender and DoB

Name Matches [patient count = 2]

Surname	First Name	Sex	D.O.B.	Age	Address	City	Postcode	Medicare	HCC No	DVA No	ID
Tester	James	M	21/04/1955	64	Street	Sydney	2001				58
Tester	James	M	21/04/1955	64	Test Street	Parramatta	2150				41

- Number match – a match on any of:

  Medicare number Practices may find duplicate Medicare numbers appear if their clinical system CAT extractor is not including the Medicare index

  HCC number
  DVA number

  The population is Total Patients.

Data Quality Dashboard | Data Completeness Report | Data Completeness Patient Graph | Duplicate Number Patient Report | Duplicate Name Patient Report

1 of 1 100% Find | Next

Duplicate Number Patient Report

Report Date: 02/09/2019 1:34 PM

Practice Name: WIN10MD3

Match on ANY of: Medicare number, HCC number or DVA number

Number Matches [patient count = 11]

Surname	First Name	Sex	D.O.B.	Age	Address	City	Postcode	Medicare	HCC No	DVA No	ID
Andrews	Fred	M	23/02/1933	86	3 Best St	St. Kilda	3107	2294724171	561-388-922-HL		5
Bmi	Self	M	07/08/1957	62	3 Best St	St. Kilda	3107	2565345043	561-388-922-HL		83
Bmi	Test In Cat1	F	02/01/1986	33	3 Best St	St. Kilda	3107	2565345043	561-388-922-HL		82
Bmi	Test1	F	28/06/1996	23	3 Best St	St. Kilda	3107	2565345043	561-388-922-HL		81
Bmi	Young	F	17/11/2003	15	3 Best St	St. Kilda	3107	2565345043	561-388-922-HL		84
Andrews	Maureen		19/05/1935	84	3 Best St	St. Kilda	3107	25653450430	561-388-922-HL		23
Andrews	Graham	M	22/07/1990	29	2 Kennedy Rd	Demo Town	4523	3500265121			24
Andrews	Heather	F	01/05/1910	109	2 Kennedy Rd	Demotown	1234	3500265121			3
Andrews	John	M	17/06/1945	74	2 Kennedy Rd	Demo Town	4523	3500265121	1234	5678	13
Duck	Donald	M	21/01/1960	59	12 Disney Street	Disneyland		3500265121			11
WAGTAIL	WILLY	M		0	THE EUCALYPLUS TREE	SHERWOOD FOREST	4040	3500265121			10

The report can be sorted by any of the columns. The default sorting is:

1. Name match by surname then first name
2. Number match by Medicare number then surname

Appendix A: Data Indicators		
Indicator	**Numerator**	**Denominator**
1. Allergies and Adverse Reactions		
Allergy status recorded	Number of patients with an allergy status recorded (Allergy recorded or no known allergies)	Active patients

Allergy recorded – coded format	Number of allergies recorded that are not NKA from a coded table of available allergens	Number of allergies for active patients recorded that are not NKA
Allergy recorded – reaction completed	Number of allergies recorded that are not NKA that have content in the reaction field	Number of allergies for active patients recorded that are not NKA
2. Medicines		
Medications – coded reason for prescribing	Number of prescriptions for current medications in active patients where the reason for prescribing is recorded from a coded pick list	Number of prescriptions for current medications recorded for active patients
3. Medical History		
Diagnosis recorded – coded format in past history	Number of diagnoses entered in the past history which have been entered in a coded format	Number of diagnoses recorded in the past history for active patients

4. Health Risk Factors		
Smoking status recorded	Number of active patients 10 years and over for whom smoking status is recorded	Active patients 10 years and over
Smoker – Cigarettes per day recorded	Number of active patients 10 years and over recorded as smokers for whom the number of cigarettes has been recorded	Active patients 10 years and over recorded as smokers
Ex-smoker – Date ceased	Number of active patients 10 years and over recorded as ex-smokers for whom a cease date is recorded	Active patients 10 years and over recorded as ex-smokers
Waist circumference recorded in **overweight/underweight patients**	Number of active patients for whom a waist circumference is recorded within the last 2 years	Active patients who are overweight (BMI 25) or underweight (BMI < 18.5)
Alcohol Status – quantity recorded	Number of active patients 14 years and over who have alcohol quantity recorded	Active patients 14 years and over
Alcohol Status – frequency recorded	Number of active patients 14 years and over who have alcohol frequency recorded	Active patients 14 years and over
5. Immunisations		
Immunisations recorded Active patients with immunisations recorded in the system		Active patients
6. Relevant Family History		
Family history recorded	Active patients with family history recorded in the system	Active patients
7. Relevant Social History		
Living arrangement recorded	Active patients with living arrangements recorded	Active patients
Ethnicity recorded	Active patients with ethnicity recorded	Active patients
Is a carer recorded	Active patients with 'Is carer' recorded	Active patients
Has a carer recorded	Active patients with 'has a carer' field recorded	Active patients
Occupation and employment status recorded	Active patients with occupation and employment status field recorded	Active patients 15 years and over
Relationship status recorded	Active patients with relationship status field recorded	Active patients 15 years and over
8. Duplicate Patients		
Duplicate Patients	Patients who have a match on any of the following: Surname, First name initial, Gender **and** DOB Medicare number HCC number DVA number A patient is only counted once regardless of the number of items where there are matches	Total Population

Appendix B: Indicator unavailability by Clinical System	
Medical Director	The following indicators are not available for collection from Medical Director: **Allergy recorded – coded format Living arrangement recorded Is a carer recorded** **Has a carer recorded**
Best Practice	All indicators are available
Medinet	The following indicators are not available for collection from Medinet: **Allergy recorded – coded format** **Medications – coded reason** **Living arrangement recorded Is a carer recorded** **Has a carer recorded**