



Data Quality Utilized by DHIS2

Pusat Data dan Informasi



Data Quality Concept

4C

What makes QUALITY Data?

- ***Complete:***
 - Facility data has been submitted for each month (or for each quarter in the case of TB data)
- ***Consistent:***
 - Similar to the value for other months
- ***Correct:***
 - Value for one data element is similar to the value for a related data element (e.g. DPT 3 is about equal to Polio 3)
- ***Current (Timeliness):***
 - Data submitted before the deadlines

Completeness

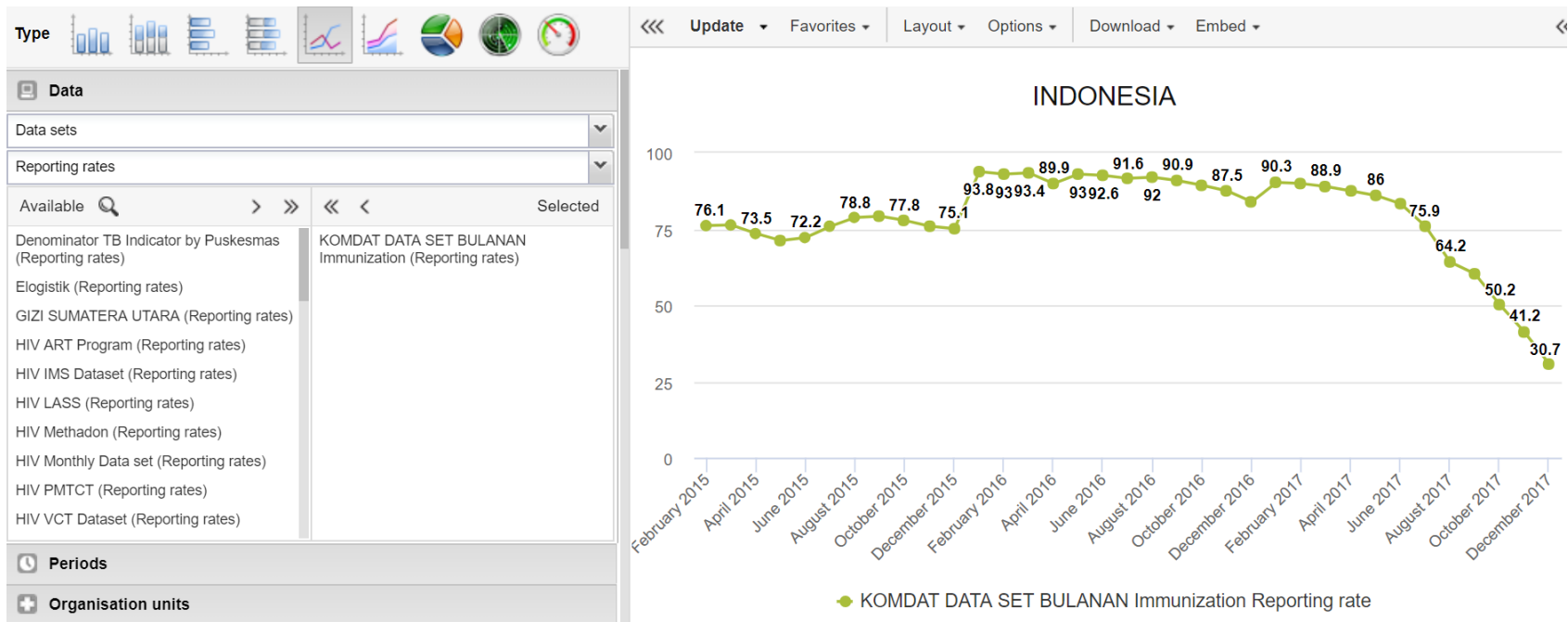
Health facility	Total Malaria Cases	Month					
		January	February	March	April	May	June
Pkm.Kang o	84	24	22	20	18		
Pkm. Mutemba	71	30	41				
Pkm. Wala	82	19	21	20	14	8	
Pkm. Bara	74	18	12	14	11	9	10

- Which Puskesmas has the most malaria cases?
- Which puskesmas has the most complete data?

Completeness = Reporting rate (%)

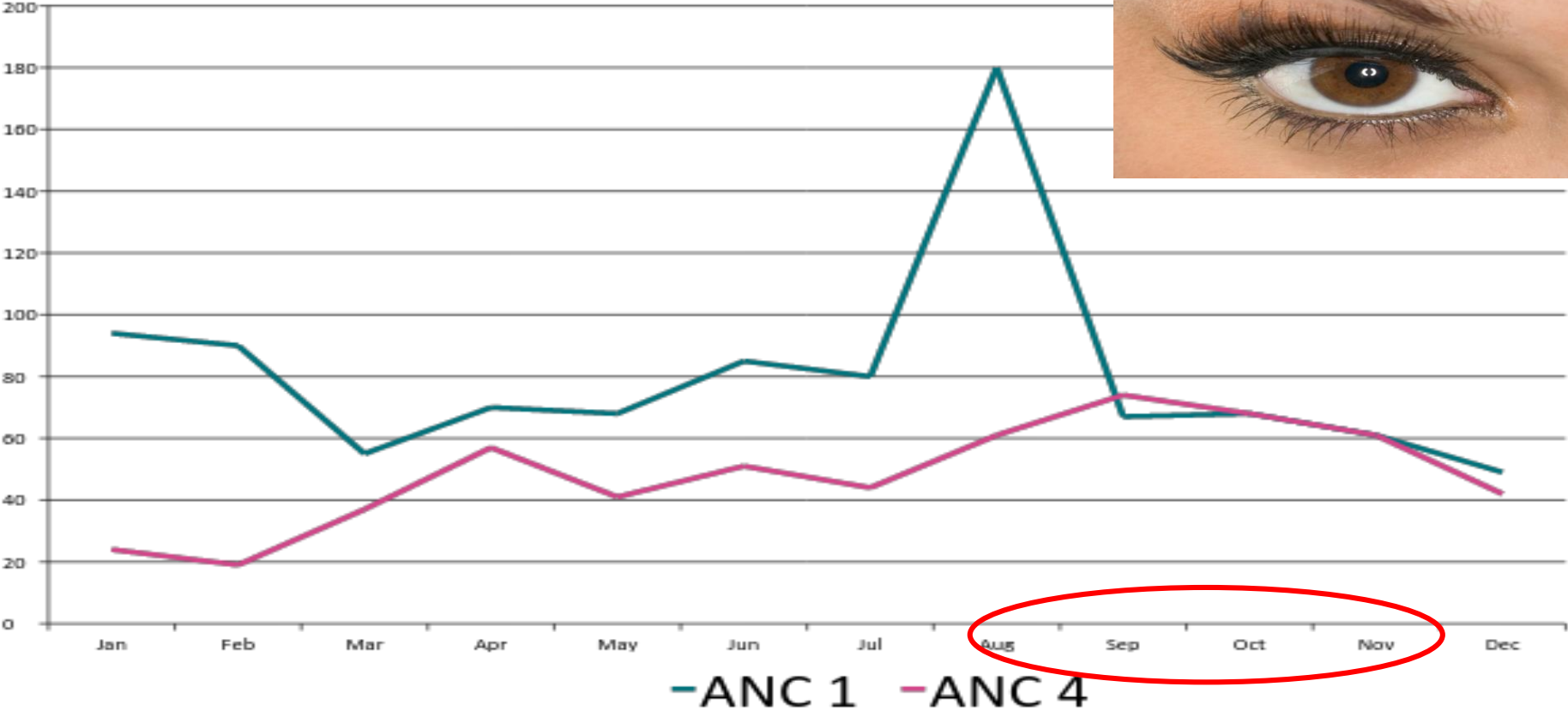
Reporting rate 1					
	Feb	March	Apr	May	June
District Hospital A	1	1	1		
District Hospital B	1	1	1		
Community Health Centre A	1	1	1	1	
Community Health Centre B	1		1	1	
Community Health Centre C	1	1	1	1	
Community Health Centre D	1	1	1	1	
Mobile Service A	1			1	1
Mobile Service B	1	1		1	1
Mobile Service C	1	1		1	1
Mobile Service D	1			1	1
Facilities reported	10	7	6	8	4
Facilities expected to report	10	10	10	10	10
Reporting rate	100	70	60	80	40

To see Reporting rate, select “Data sets” under DATA



1. At present, this only functions for “KOMDAT DATA SET BULANAN Immunization”
2. For 6 pilot districts, use the indicators “KOMDAT PKM reporting completeness – immunizations” and “KOMDAT PKM reporting completeness – maternal health services”

Consistency & Correctness



Update profile • Write feedback • 4. Tugas

Messages

Interpretations

Search for users, charts, maps, reports and resources

Search

Add

Manage

Share

<

>

1. Reporting completeness

2. Consistency

3. Interpretation

4. Tugas

Facility-level KOM

Explore | Resize | Share interpretation | Remove | 0

Tugas 1.1

Organisation unit / Data	Kunjungan Pertama Ibu Hamil (K1; ANC1)	Estimated Pregnant women	CAKUPAN KAB/KOTA ANC 1 (K1)	Tc
INDONESIA	5 215 633	5 324 662	98	1
KAB. ACEH BARAT	4 306	4 665	92.3	
KAB. ACEH BARAT DAYA	2 878	3 221	89.4	
KAB. ACEH BESAR	8 918	10 678	83.5	
KAB. ACEH JAYA	2 202	2 503	88	
KAB. ACEH SELATAN	4 747	4 887	97.1	1
KAB. ACEH SINGKIL	2 881	3 656	78.8	
KAB. ACEH TAMIANG	6 006	7 238	83	
KAB. ACEH TENGAH	4 601	5 254	87.6	

Explore | Resize | Share interpretation | Remove | 0

Tugas 1.2

INDONESIA					
	TB08a - Jumlah pasien TB yang diobati (cohort of all TB cases)	TB08b - Sembuh	TB08c - Pengobatan lengkap	TB08d - Pengobatan gagal	TB08e - Meninggal
Jan to Mar 2016	80 604	33 433	29 663	275	2 033
Apr to Jun 2016	79 151	29 331	28 219	265	1 838
Jul to Sep 2016	72 969	10 609	10 601	130	1 259
Oct to Dec 2016	72 924	6 332	6 639	64	1 040



Data Quality



WHO Data Quality Tool

Choose WHO DQ

Manage my apps

Kunjungan Pertama Ibu Hamil (K1; ANC1)

Explore | Resize | Share interpretation | Remove | 0

Tugas 2.1b
KOTA PALEMBANG





Dashboard

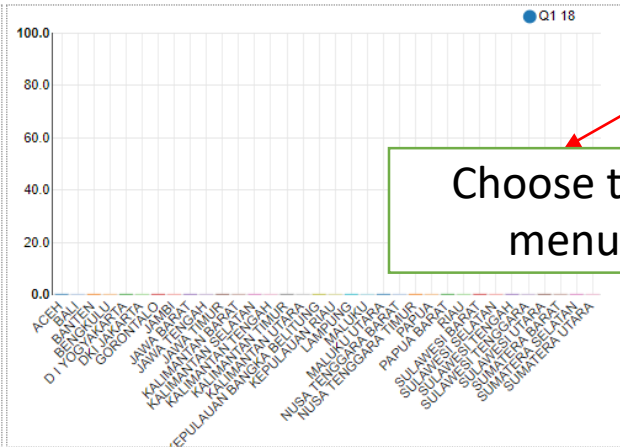
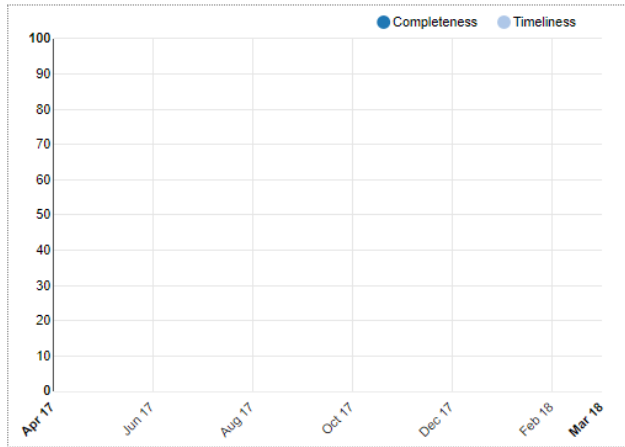
Completeness

Consistency - time

Consistency - data

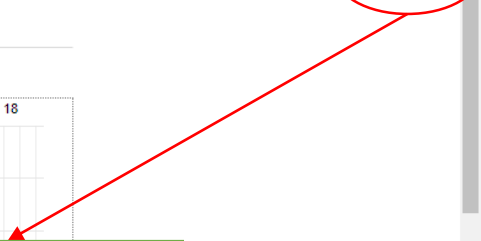
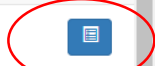
Outliers

"KOMDAT DATA SET BULANAN Complete values" completeness



Choose this menu

"TB07 Dataset" completeness



Exit

Data

[Core]

Still Core

Period

<

2017

>

January

February

March

April

May

June

July

August

September

October

November

December

2017

Data for 12 months up to and including the selected month will be used.

Organisation unit

INDONESIA

Boundary

INDONESIA

Other

Disaggregation

Kab/Kota

Change Ka/Kota

Selected

INDONESIA

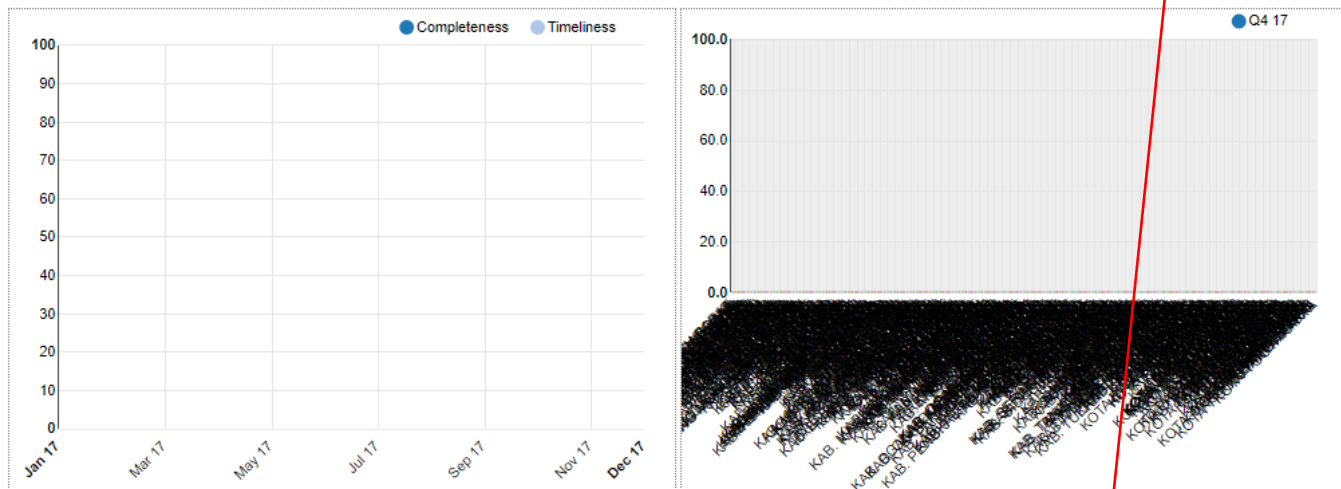
Kab/Kota

Dashboard

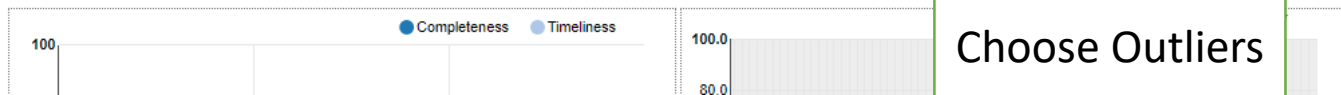


Completeness Consistency - time **Consistency - data** Outliers

"KOMDAT DATA SET BULANAN Complete values" completeness



"TB07 Dataset" completeness



Choose Outliers

Data
[Core]

Period

<	2017	>
January	February	March
April	May	June
July	August	September
October	November	December

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Organisation unit
INDONESIA
Boundary
INDONESIA Other
Disaggregation

Dashboard

Completeness Consistency - time Consistency - data Outliers

Result

Options Download Previous

Unit	Data	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	Jul 17	Aug 17	Sep 17	Oct 17	Nov 17	Dec 17	Weight		
														Missing	Outlier	Total
KAB. MALANG	Jumlah Bayi Lahir Hidup (Live births reported monthly)_ver2	37869.0	38494.0	37829.0	3706.0	3921.0	3864.0	3973.0	3355.0	2938.0	3354.0	31771.0	3322.0	0	131747	131747
KAB. DELI SERDANG	Imunisasi DPT/HB (1) pada bayi usia 0-11 bulan_ver2	3561.0	3637.0	3838.0	3579.0	3566.0	3722.0	3770.0	3727.0	7842.0	7370.0	7259.0	7056.0	0	14827	14827
KAB. DELI SERDANG	Imunisasi DPT/HB (3) pada bayi usia 0-11 bulan_ver2	3449.0	3507.0	3774.0	4262.0	3688.0	3796.0	3590.0	3538.0	7432.0	6722.0	6768.0	6966.0	0	13086	13086
KAB. TULANG BAWANG BARAT	Jumlah Bayi Lahir Hidup (Live births reported monthly)_ver2	440.0	440.0	392.0	420.0	439.0	441.0	440.0	444.0	3909.0	4356.0	424.0	5055.0	0	12027	12027
KOTA	Kunjungan	4517.0	4823.0	4525.0	4831.0	4848.0	3979.0	4845.0	4774.0	3892.0	2293.0	2080.0	1466.0	0	7839	7839

Data

[Core]

Period

Navigation: < 2017 >

January	February	March
April	May	June
July	August	September
October	November	December

Data for 12 months up to and including the selected month will be used.

Organisation unit

INDONESIA

Boundary

Dashboard

Completeness

Consistency - time

Consistency - data

Outliers

Result

Options Download Previous

Display columns

All Missing data **Outliers**

Include Z-score

Outlier filter

Off Standard Score Modified Z-Score

Moderate Extreme

Unit	Data	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	Jul 17	Aug 17	Sep 17	Oct 17	Nov 17	Dec 17	Weight
														Outlier
KAB. MALANG	Jumlah Bayi Lahir Hidup (Live births reported monthly)_ver2	37869.0	38494.0	37829.0	3706.0	3921.0	3864.0	3973.0	3355.0	2938.0	3354.0	31771.0	3322.0	131747
KAB. DELI SERDANG	Imunisasi DPT/HB (1) pada bayi usia 0-11 bulan_ver2	3561.0	3637.0	3838.0	3579.0	3566.0	3722.0	3770.0	3727.0	7842.0	7370.0	7259.0	7056.0	14827
KAB. DELI SERDANG	Imunisasi DPT/HB (3) pada bayi usia 0-11 bulan_ver2	3449.0	3507.0	3774.0	4262.0	3688.0	3796.0	3590.0	3538.0	7432.0	6722.0	6768.0	6966.0	13086

Data

[Core]

Period

Navigation: < 2017 >

January February March

April May June

July August September

October November **December**

Data for 12 months up to and including the selected month will be used.

Organisation unit

INDONESIA
Boundary

Dashboard

Completeness

Consistency - time

Consistency - data

Outliers

Result

Options Download Previous

Display columns

All Missing data Outliers

Include Z-score

Outlier filter

Off Standard Score Modified Z-Score

Moderate Extreme

Hierarchy		Data	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	Jul 17	Aug 17	Sep 17	Oct 17	Nov 17	Dec 17	Weight		To
Provinsi	Unit														Missing	Outlier	
KAB. MALANG	PKM SUMBER PUCUNG	Jumlah Bayi Lahir Hidup (Live births reported monthly)_ver2	64.0	821.0	816.0	784.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0	0	741	
KAB. MALANG	PKM LAWANG	Kunjungan Pertama Ibu Hamil (K1: ANC1)_ver2	133.0	136.0	130.0	143.0	137.0	140.0	132.0	141.0	139.0	226.0	514.0	162.0	0	461	

Data

[Core]

Period

January	February	March
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October	November	December

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Organisation unit

INDONESIA

Boundary

Dashboard

Completeness

Consistency - time

Consistency - data

Outliers

Result

Options

Download

Previous

Display columns

All

Missing data

Outliers

Include Z-score

Outlier filter

Off

Standard Score

Modified Z-Score

Moderate

Extreme

Data

[Core]

Period

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- Visualise
- Drill down
- Contact

thank you!