# Australian National Diabetes Audit Australian Quality Clinical Audit

2019

Supplement







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# Abbreviations and acronyms

ACE	Angiotensin Converting Enzyme
ANDA	Australian National Diabetes Audit
AQCA	Australian Quality Clinical Audit
ARB	Angiotensin II Receptor Blockers
ВМІ	Body mass index
ВР	Blood pressure
CABG	Coronary artery bypass graft
DVA	Department of Veterans Affairs
eGFR	Estimated glomerular filtration rate
GDM	Gestational diabetes mellitus
HbA <sub>1c</sub>	Glycated haemoglobin
HDL	High density lipoprotein
LDL	Low-density lipoprotein
NDOQRIN	National Diabetes Outcomes Quality Review Initiative
NDSS	National Diabetes Services Scheme
NICE	National Institute for Health and Care Excellence
SD	Standard deviation
T1DM	Type 1 diabetes mellitus
T2DM	Type 2 diabetes mellitus

# 1. Origins of the ANDA Dataset

There has been longstanding worldwide interest in developing suitable diabetes datasets and methods of data collection to capture appropriate diabetes outcomes for quality improvement. As a result, collection, analysis and reporting of standardised diabetes datasets is now widely practised. The European Association for the Study of Diabetes (EASD) Study Group DO IT (Diabetes care Optimisation through Information Technology)<sup>(1)</sup> undertook much work aimed at improving the quality of diabetes care through the appropriate use of information technology, including promoting the collection, analysis and reporting of the DiabCare dataset<sup>(2, 3)</sup> for audit and benchmarking purposes. From this has come the DiabCare Q-Net initiative<sup>(4)</sup>.

A similar initiative, the NSW Diabetes Outcomes Workshop (NDOW), was undertaken in Australia in September 1993 with funding from the NSW Health Department<sup>(5, 6)</sup>. Forty-five stakeholders including diabetes health professionals, Health Department officials and consumers met for a one-day workshop and agreed on a dataset of 59 health outcome data elements that covered demographic, acute and chronic complications and self-care practice areas of diabetes care. These items became known as the NDOW dataset, and subsequently these data items have become widely promulgated for collection (using standardised definitions) across Australia.

In 1997 the Australian Diabetes Society (ADS) Council accepted a recommendation to adopt the NDOW dataset as its Diabetes Outcomes dataset, and formed a sub-committee (now named the National Diabetes Data Working Group (NDDWG)). This sub-committee managed the dataset and promoted quality diabetes care in Australia, through the National Diabetes Outcomes Quality Review INitiative, (NDOQRIN). The NDDWG has taken a subset of the NDOW dataset and has promoted its collection as a minimum dataset (for quality diabetes care) in a variety of clinical practice settings.

After diabetes was named the 5<sup>th</sup> National Health Priority Area in 1996<sup>(7)</sup>, work followed to improve diabetes care in Australia including the commissioning of the National Diabetes Strategy to update and replace the National Action Plan. One aspect reviewed was the need for local data on which appropriate planning could be carried out and assessment of the effect of initiatives could be undertaken. Consequently, several initiatives indicated the need for reliable data in Australia (including diabetes indicators work), as noted in the National Health Priority Areas Report: Diabetes Mellitus 1998<sup>(7)</sup>. However, data on clinical aspects of diabetes, including outcomes data, were deficient in Australia as highlighted in The National Diabetes Strategy and Implementation Plan report<sup>12</sup>.

The NDDWG continued to promulgate the NDOQRIN dataset, and in 2002 was successful in having it accepted as the first clinical dataset to be included in the National Health Data Dictionary and Knowledgebase, Version 12. This dataset has since been enhanced, and is now online as part of the AIHW – Metadata Online Registry ('METeOR') as the Diabetes (clinical) Data Set Specification<sup>(8)</sup>.

The NDOQRIN minimal dataset was utilised for the inaugural ANDA data collection in 1998 (then known as the Australian National Diabetes Information Audit & Benchmarking, ANDIAB). Subsequent enhancements have been made on a biennial basis to incorporate new research on diabetes quality clinical indicators, and to address feedback from centres participating in the previous audit cycle. The ANDA dataset has been reviewed for consistency with international datasets for diabetes benchmarking. There are high rates of agreement between the ANDA dataset and international diabetes benchmarking datasets, including the Diabetes Quality Indicators Project in the US<sup>(9)</sup>, the National Board of Health and Welfare Quality Indicators in Sweden<sup>(10)</sup>, and the National Institute for Health and Care Excellence Diabetes Quality Indicators in the United Kingdom<sup>(11)</sup>.

## 2. Data Queries

#### Missing vital data fields:

A list was generated of all instances of missing data in any of the following fields: Sex, date of birth, year of diagnosis, diabetes type, diabetes management, height, weight, initial visit, fasting status (if lipids recorded).

#### Potentially invalid data values:

A list was generated to check potential data inaccuracies as follows:

- (1) Male = Pregnant OR Female <18 or >55 = Pregnant
- (2) Type 1 and insulin not indicated
- (3) GDM and not currently pregnant
- (4) Year of Diagnosis or Year Started Insulin < Date of birth
- (5) On Insulin since Year < Date of diagnosis
- (6) Systolic BP < diastolic BP OR systolic or diastolic is missing
- (7) Systolic BP <70mmHg or >200mmHg OR diastolic BP <40mmHg or >130mmHg
- (8) Age >18 years and height <1.3 metres or >2.2 metres
- (9) Age >18 years and weight <40 kilograms or >200 kilograms
- (10) BMI >50 kg/m<sup>2</sup>
- (11) Age >18 years and BMI <15
- (12) Type 1 and on insulin ≥3 years after date of diagnosis
- (13) Age <2 years

Whilst some of the scenarios may be possible (e.g. 7, 8, 9), the likelihood is that they represent incorrect data recording or interpretation by the computer system.

**Possible duplicates:** (double individual registration/data entry), based on sex and date of birth match.

Potentially incorrect HbA<sub>1c</sub>, lipid, and creatinine values: HbA<sub>1c</sub> <4%, HbA<sub>1c</sub> <20 mmol/mol, total cholesterol <2.0 mmol/L, HDL cholesterol >2.5 mmol/L, triglyceride <0.5 mmol/L, creatinine <50 or >1000  $\mu$ mol/L.

# 3. Data Assumptions, Decisions and Manipulations

As in previous years, data assumptions and decisions were made based on the following rules.

Only patients aged 18 and above were included in the pooled analysis. In 2019, the results of patients with GDM and patients under 18 years were presented separately.

#### Missing data were also calculated conditionally where relevant:

- Date of visit=1/06/2019 if missing
- Pregnancy=Yes, if female and has GDM
- Insulin=Yes, if insulin duration and/mode indicated
- Fasting=Yes, if any lipids recorded

#### Invalid data were excluded:

- Date of birth after visit date
- Pregnancy if male or female aged >55
- Urinary protein/albumin value, if units not indicated
- Type 1 and insulin use not indicated, unless < 12 months since diagnosis
- 'Year of diagnosis' and 'Insulin duration' excluded if < date of birth

#### Data manipulations and derivation

- Duration of diabetes was calculated: Study year Year of diagnosis
- Where diabetes was type 1, age at diagnosis was ≥40, insulin was commenced >3 years after diagnosis and BMI was ≥25, a diagnosis of type 2 diabetes was assigned
- Anti-hypertensive therapy changed to 'No' if no medications were indicated
- 'Diet only' changed to 'No' if other management methods details were indicated
- 'Lipid lowering therapy' changed to 'No' if no therapy details were indicated
- BMI was calculated: weight (kg) / height (m)2
- eGFR was calculated using the CKD-EPI equation
- Urinary protein/albumin assessment was considered in relation to published guidelines for laboratory thresholds
- Instances where patients reported multiple modes of insulin, the following hierarchical algorithm was used: Pump > Basal bolus > Pre-mixed > Basal

# 4. Frequency Count Data

### **SECTION 4.1 PATIENT DEMOGRAPHICS**

			JECHON-	F. T I WILL IN	DEIVIO GIVATTIIC	<b>.</b>				
ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	N
1.1	Date of b	irth								
		DOB	6436	100.0%	100%					
		Missing	0	0.0%						
		Sum	6436	100%	100%	•				
	A	Suili	0430	100%	100%					
	Age									
		Age	6436	100.0%	100%	59.2	56.0	17.7	18.0	10
		Missing	0	0.0%						
		Sum	6436	100%	100%					
1.2	Sex									
		Male	3179	49.4%	50.0%					
		Female	3180	49.4%	50.0%					
		Missing	77	1.2%						
		Sum	6436	100%	100%					
1 2 1	Currenthy			10076	100%					
1.2.1	currently	pregnant (females		25.70/	27.40/					
		Yes	395	25.7%	27.1%					
		No	1064	69.2%	72.9%					
		Missing	78	5.1%						
		Sum	1537	100%	100%					
1.3	Date of vi	sit								
		Visit Date	6436	100%	100%					
		Missing	0	0.0%						
		Sum	6436	100%	100%					
1.4	Initial visit		0.00	20070	20070					
1.7	IIIIIIIII VISI	Yes	1319	20.5%	20.8%					
		No	5035	78.2%	79.2%					
		Missing	82	1.3%						
		Sum	6436	100%	100%					
1.5	Aborigina	l/Torres Strait Island	der							
		Yes	281	4.4%	4.7%					
		No	5760	89.5%	95.3%					
		Missing	395	6.1%						
		Sum	6436	100%	100%					
1.6	Country o									
	2341161 7 0	Country	6156	96%	100%					
			280	4.4%	100/0					
		Missing			40001					
	NE ST	Sum	6436	100%	100%					
1.7	NDSS me									
		Yes	5484	85.2%	94.2%					
		No	338	5.3%	5.8%					
		Missing	614	9.5%						
		Sum	6436	100%	100%					
1.8	DVA pation				4.40/					
1.8	DVA patio	Yes	67	1 0%	1 1%					
1.8	DVA pation	Yes	67 5761	1.0% 89.5%	1.1%					
1.8	DVA pation	No	5761	89.5%	1.1% 98.9%					
1.8	DVA pation									

<sup>\*</sup>Relative % = % of the total excluding the missing values

### **SECTION 4.2 DIABETES TYPE & MANAGEMENT**

			323311 1.2							
ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Max
2.1	Year of	diagnosis								
		Year	6308	98.0%	100%	2006	2005	11.7	1939	2019
		Missing	128	2.0%						
		Sum	6436	100%	100%					
	Duratio	n of diabetes								
		Duration	6308	98.0%	100%	13.0	14.5	11.7	0.0	80.0
		Missing	128	2.0%						
		Sum	6436	100%	100%					
2.2	Type of	diabetes								
		T1DM	1729	26.9%	27.0%					
		T2DM	4143	64.4%	64.6%					
		GDM	320	5.0%	5.0%					
		Don't know	93	1.4%	1.5%					
		Other	125	1.9%	2.0%					
		Missing	26	0.4%						
		Sum	6436	100%	100%					
2.3	Blood g	lucose monitoring								
		None	492	7.6%	7.7%					
		Finger pricking**	5141	79.9%	80.6%					
		Continuous Glucose								
		Monitoring*	485	7.5%	7.6%					
		Missing	558	8.7%						
	** multi	ple methods reported in sc	me patients							
2.4	Manage	ement method								
		Diet only	405	6.3%	6.3%					
		Metformin**	3179	49.4%	49.8%					
		Sulphonylurea**	942	14.6%	14.8%					
		Glitazone**	13	0.2%	0.2%					
		Acarbose**	27	0.4%	0.4%					
		DPP4 inhibitor**	1093	17.0%	17.1%					
		SGLT2 inhibitor**	1142	17.7%	17.9%					
		GLP1 agonist**	528	8.2%	8.3%					
		Insulin**	4303	66.9%	67.4%					
		Missing	55	0.9%						
	** mond	otherapy or in combinatior	n with other trea	tments						
2.4.1	Insulin d	duration								
		<1 year	611	14.2%	14.5%					
		1-5 years	987	22.9%	23.5%					
		>5 years	2606	60.6%	62.0%					
		Missing	99	2.3%						
		Sum	4303	100%	100%	•				
2.4.2	Insulin r	mode								
		Basal**	764	11.9%	18.0%					
		Basal bolus**	2048	31.8%	48.3%					
		Pump**	496	7.7%	11.7%					
		5 · 1 · 1 · 4	025	1 / / 0/						
		Pre-mixed insulin*	925	14.4%	21.8%					
		Pre-mixed insulin* Missing	925 66	14.4%	21.8%					

<sup>\*</sup>Relative % = % of the total excluding the missing values

# SECTION 4.3 HEIGHT, WEIGHT & SMOKING STATUS

ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Max
3.1	Weight									
		Weight	6231	96.8%	100%	86.8	89.6	23.1	20.0	252.0
		Missing	205	3.2%		_				
		Sum	6436	100%	100%					
3.2	Height									
		Height	5912	91.9%	100%	1.7	1.7	0.1	1.0	2.0
		Missing	524	8.1%						
		Sum	6436	100%	100%					
3.3	Smoking	status								
		Current	730	11.3%	11.9%					
		Past	1886	29.3%	30.7%					
		Never	3521	54.7%	57.4%					
		Missing	299	4.7%						
		Sum	6436	100%	100%					
3.3.1	Number	of years spent smoking	g (current or past	smokers)						
		<5 years	302	11.5%	12.4%					
		5-10 years	400	15.3%	16.4%					
		11-20 years	580	22.2%	23.8%					
		>20 years	1158	44.3%	47.5%					
		Missing	176	6.7%						
		Sum	2616	100%	100%	-				

<sup>\*</sup>Relative % = % of the total excluding the missing values

### SECTION 4.4 BLOOD PRESSURE & ANTI-HYPERTENSIVE THERAPY

ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Max
4.1	Systolic	blood pressure								
		Systolic	6200	96.3%	100%	130	131	18	70	230
		Missing	236	3.7%		_				
		Sum	6436	100%	100%	-				
4.1	Diastoli	c blood pressure								
		Diastolic	6200	96.3%	100%	76	76	11	30	135
		Missing	236	3.7%		_				
		Sum	6436	100%	100%					
4.2	Anti-hyp	pertensive therapy								
		Yes	3691	57.4%	57.7%					
		No	2711	42.1%	42.3%					
		Missing	34	0.5%		_				
		Sum	6436	100%	100%	_				

<sup>\*</sup>Relative % = % of the total excluding the missing values

### SECTION 4.5 DIABETES RELATED EYE DISEASE

ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Max
5.1	Attende	ed optometrist/ophtha	lmologist							
		Yes	4747	73.7%	74.2%					
		No	1653	25.7%	25.8%					
		Missing	36	0.6%						
		Sum	6436	100%	100%					
5.2	Fundus	examination								
		Yes	4240	65.9%	66.4%					
		No	2146	33.3%	33.6%					
		Missing	50	0.8%						
		Sum	6436	100%	100%					
5.3	Retinop	athy								
		Yes	1095	17.0%	17.2%					
		No	5265	81.8%	82.8%					
		Missing	76	1.2%						
		Sum	6436	100%	100%					
5.4	Treatmo	ent for retinopathy								
		Yes	526	8.2%	8.3%					
		No	5821	90.4%	91.7%					
		Missing	89	1.4%						
		Sum	6436	100%	100%					
5.5	Right or	left cataract								
		Yes	1056	16.4%	16.6%					
		No	5288	82.2%	83.4%					
		Missing	92	1.4%						
		Sum	6436	100%	100%					

<sup>\*</sup>Relative % = % of the total excluding the missing values

### SECTION 4.6 DIABETES RELATED FOOT PROBLEMS

			SECTION 4.0 DI	ADE LES MEE	AILDIOOIIN	ODLLIVIS				
ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Ma
6.1	Periphe	eral neuropathy - la	st 12 months							
		Yes	1208	18.8%	18.9%					
		No	5195	80.7%	81.1%					
		Missing	33	0.5%						
		Sum	6436	100%	100%	-				
	Periphe	eral neuropathy - pr	revious							
	•	Yes	1115	17.3%	17.8%					
		No	5150	80.0%	82.2%					
		Missing	171	2.7%						
		Sum	6436	100%	100%	-				
6.2	Foot uld	ceration - last 12 m	onths							
		Yes	314	4.9%	4.9%					
		No	6094	94.7%	95.1%					
		Missing	28	0.4%						
		Sum	6436	100%	100%	-				
	Foot uld	ceration - previous								
		Yes	349	5.4%	5.5%					
		No	6009	93.4%	94.5%					
		Missing	78	1.2%						
		Sum	6436	100%	100%	-				
6.3	Periphe	eral vascular diseas	e - last 12 months							
		Yes	469	7.3%	7.3%					
		No	5935	92.2%	92.7%					
		Missing	32	0.5%						
		Sum	6436	100%	100%	-				
	Periphe	eral vascular diseas	e - previous							
		Yes	518	8.0%	8.3%					
		No	5745	89.3%	91.7%					
		Missing	173	2.7%						
		Sum	6436	100%	100%	_				
6.4	Lowerli	imb amputation - la	ast 12 months							
		Yes	171	2.7%	2.7%					
		No	6234	96.9%	97.3%					
		Missing	31	0.5%		_				
		Sum	6436	100%	100%					
	Minor lo	ower limb amputat	ion - last 12 months							
		Yes	140	81.9%	81.9%					
		No	31	18.1%	18.1%					
		Missing	0	0.0%		_				
		Sum	171	100%	100%					
	Major lo	ower limb amputat	ion - last 12 months							
		Yes	30	17.5%	17.5%					
		No	141	82.5%	82.5%					
		Missing	0	0.0%						
						_				

<sup>\*</sup>Relative % = % of the total excluding the missing values

# SECTION 4.6 DIABETES RELATED FOOT PROBLEMS (continued)

ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Max
	Lowerli	imb amputation - previo	ous							
		Yes	201	3.1%	3.2%					
		No	6065	94.2%	96.8%					
		Missing	170	2.7%		_				
		Sum	6436	100%	100%	•				
	Minor lo	ower limb amputation -	previous							
		Yes	156	77.6%	77.6%					
		No	45	22.4%	22.4%					
		Missing	0	0.0%		_				
		Sum	201	100%	100%	•				
	Majorlo	ower limb amputation -	previous							
		Yes	49	24.4%	25.0%					
		No	147	73.1%	75.0%					
		Missing	5	2.5%						
		Sum	201	100%	100%	-				

<sup>\*</sup>Relative % = % of the total excluding the missing values

### **SECTION 4.7 MEDICATIONS & LIPIDS**

ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Max
7.1	Aspirin									
	, 10 <b>p</b>	Yes	1706	26.5%	26.6%					
		No	4679	72.7%	72.8%					
		Contraindicated	37	0.6%	0.6%					
		Missing	14	0.2%						
		Sum	6436	100%	100%					
7.2	Other a	nti-platelets								
		Yes	382	6.0%	6.0%					
		No	6012	93.4%	93.7%					
		Contraindicated	21	0.3%	0.3%					
		Missing	21	0.3%						
		Sum	6436	100%	100%	•				
7.3	Anti-coa	agulants								
		Yes	456	7.1%	7.1%					
		No	5939	92.3%	92.6%					
		Contraindicated	19	0.3%	0.3%					
		Missing	22	0.3%						
		Sum	6436	100%	100%					
7.4	Lipid lov	wering therapy								
	•	Yes	3585	55.7%	55.8%					
		No	2835	44.0%	44.2%					
		Missing	16	0.3%						
		Sum	6436	100%	100%					
7.4.1	Statin (d	of patients on lipid lower	ing therapy)							
		Yes	3310	92.3%	92.5%					
		No	247	6.9%	6.9%					
		Contraindicated	23	0.6%	0.6%					
		Missing	5	0.2%						
		Sum	3585	100%	100%	•				
7.4.2	Fibrate	(of patients on lipid lowe	ring therapy)							
		Yes	455	12.7%	12.9%					
		No	3066	85.5%	86.8%					
		Contraindicated	9	0.3%	0.3%					
		Missing	55	1.5%						
		Sum	3585	100%	100%	•				
7.4.3	Ezetrol	(of patients on lipid lowe	ring therapy)							
		Yes	413	11.5%	11.7%					
		No	3107	86.7%	88.1%					
		Contraindicated	7	0.2%	0.2%					
		Missing	58	1.6%						
		Sum	3585	100%	100%	-				
7.4.4	Fish oil	(of patients on lipid lowe	ring therapy)							
		Yes	185	5.2%	5.3%					
		No	3334	93.0%	94.7%					
		Contraindicated	3	0.1%	0.1%					
		Missing	63	1.7%		_				
		Sum	3585	100%	100%	-				

<sup>\*</sup>Relative % = % of the total excluding the missing values

# SECTION 4.7 MEDICATIONS & LIPIDS (continued)

						,				
ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Max
7.5	Lipids m	neasured								
		Yes	4396	68.3%	68.5%					
		No	2023	31.4%	31.5%					
		Missing	17	0.3%		_				
		Sum	6436	100%	100%					
7.5.1	Total ch	olesterol (of patients w	rith lipids measur	ed)						
		Total cholesterol	4348	98.9%	100%	4.2	4.3	1.2	1.2	20.8
		Missing	48	1.1%						
		Sum	4396	100%	100%					
7.5.2	LDL (of	patients with lipids mea	sured)							
		LDL	3721	84.6%	100%	2.1	2.2	0.9	0.0	7.6
		Missing	675	15.4%						
		Sum	4396	100%	100%					
7.5.3	HDL (of	patients with lipids me	asured)							
		HDL	3832	87.2%	100%	1.2	1.2	0.4	0.1	5.4
		Missing	564	12.8%		_				
		Sum	4396	100%	100%					
7.5.4	Triglyce	rides (of patients with I	ipids measured)							
		Triglycerides	4222	96.0%	100%	1.6	2.0	2.1	0.2	48.0
		Missing	174	4.0%						
		Sum	4396	100%	100%					
7.5.5	Fasting	lipids (of patients with	lipids measured)							
		Yes	3703	84.3%	84.6%					
		No	674	15.3%	15.4%					
		Missing	19	0.4%						
		Sum	4396	100%	100%					

<sup>\*</sup>Relative % = % of the total excluding the missing values

# SECTION 4.8 COMPLICATIONS/EVENTS/COMORBIDITIES

	St	:C110N 4.8 CON	IPLICA I IONS/	EVENTS/COM	OKRIDII IE2			
ltem	Field Category	Total	%	Relative %*	Median	Mean	SD	Min
8.1	Stroke - last 12 months							
	Yes	91	1.4%	1.4%				
	No	6331	98.4%	98.6%				
	Missing	14	0.2%		_			
	Sum	6436	100%	100%	_			
	Stroke - previous							
	Yes	262	4.1%	4.2%				
	No	6006	93.3%	95.8%				
	Missing	168	2.6%					
	Sum	6436	100%	100%	_			
3.2	Myocardial infarction - last 12	months						
	Yes	150	2.3%	2.3%				
	No	6269	97.4%	97.7%				
	Missing	17	0.3%					
	Sum	6436	100%	100%	-			
	Myocardial infarction - previou							
	Yes	570	8.8%	9.1%				
	No	5706	88.7%	90.9%				
	Missing	160	2.5%	, -				
	Sum	6436	100%	100%	-			
3.3	CABG/Angioplasty - last 12 mg							
	Yes	147	2.3%	2.3%				
	No	6269	97.4%	97.7%				
	Missing	20	0.3%	, -				
	Sum	6436	100%	100%	-			
	CABG/Angioplasty - previous							
	Yes	592	9.2%	9.4%				
	No	5683	88.3%	90.6%				
	Missing	161	2.5%	30.070				
	Sum	6436	100%	100%	-			
.4	Congestive cardiac failure - las		200,0	200,0				
	Yes	253	3.9%	4.3%				
	No	5690	88.4%	95.7%				
	Missing	493	7.7%	3370				
	Sum	6436	100%	100%	-			
	Congestive cardiac failure - pre		25070					
	Yes	294	4.6%	5.0%				
	No	5590	86.8%	95.0%				
	Missing	552	8.6%	33.070				
	Sum	6436	100%	100%	-			
3.5	End stage kidney disease - last		100/0	100/0				
	Yes	251	3.9%	3.9%				
	No	6173	95.9%	96.1%				
	Missing	12	0.2%	50.170				
	1411221118	6436	100%	100%	-			
	Sum	nan	100/0	100/0				
	Sum Fnd stage kidney disease - pre							
	End stage kidney disease - pre	vious		A 6%				
	End stage kidney disease - pre Yes	vious 288	4.5%	4.6% 95.4%				
	End stage kidney disease - pre	vious		4.6% 95.4%				

<sup>\*</sup>Relative % = % of the total excluding the missing values

# SECTION 4.8 COMPLICATIONS/EVENTS/COMORBIDITIES (continued)

	SECTION	4.8 CUIVIPLICA	ION2/EVEN	I S/COMORBIDI		-	•	
ltem	Field Category	Total	%	Relative %*	N	ledian	ledian Mean	ledian Mean SD
.6	Blindness - last 12 months							
	Yes	83	1.3%	1.3%				
	No	6247	97.1%	98.7%				
	Missing	106	1.6%		_			
	Sum	6436	100%	100%				
	Blindness - previous							
	Yes	99	1.5%	1.6%				
	No	6172	95.9%	98.4%				
	Missing	165	2.6%					
	Sum	6436	100%	100%	_			
7	Sexual dysfunction - last 12 mor	iths						
	Yes	725	11.3%	11.5%				
	No	5583	86.7%	88.5%				
	Missing	128	2.0%					
	Sum	6436	100%	100%	-			
	Sexual dysfunction - previous							
	Yes	725	11.3%	11.5%				
	No	5583	86.7%	88.5%				
	Missing	128	2.0%	, -				
	Sum	6436	100%	100%	-			
3	Dementia - last 12 months	0.00	20070	10070				
	Yes	76	1.2%	1.3%				
	No	5867	91.1%	98.7%				
	Missing	493	7.7%	30.770				
	Sum	6436	100%	100%	-			
	Dementia - previous	0430	10070	10070				
	Yes	61	0.9%	1.0%				
	No	5824	90.5%	99.0%				
		551	8.6%	99.070				
	Missing	6436	100%	100%	-			
	Sum		100%	100%				
	Diabetic ketoacidosis - last 12 m		2.00/	2.40/				
	Yes	194	3.0%	3.1%				
	No	6137	95.4%	96.9%				
	Missing	105	1.6%		-			
	Sum	6436	100%	100%				
	Diabetic ketoacidosis - previous							
	Yes	475	7.4%	7.6%				
	No	5789	89.9%	92.4%				
	Missing	172	2.7%		_			
	Sum	6436	100%	100%				
10	Hyperosmolar hyperglycaemic s	tate - last 12 m	onths					
	Yes	62	1.0%	1.0%				
	No	6265	97.3%	99.0%				
	Missing	109	1.7%					
	Sum	6436	100%	100%	-			
	Hyperosmolar hyperglycaemic s	tate - previous						
	Hyperosmolar hyperglycaemic s Yes	tate - previous 68	1.1%	1.1%				
	Yes	68	1.1% 96.2%	1.1% 98.9%				
		· ·	1.1% 96.2% 2.7%	1.1% 98.9%				

<sup>\*</sup>Relative % = % of the total excluding the missing values

# SECTION 4.8 COMPLICATIONS/EVENTS/COMORBIDITIES (continued)

ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Ma
8.11	Severe	hypoglycaemia - last 12 m	onths							
		Yes	355	5.5%	5.6%					
		No	5955	92.5%	94.4%					
		Missing	126	2.0%		_				
		Sum	6436	100%	100%					
8.11.1	Numbe	r of episodes (of patients v	with severe hy	poglycaemia	)					
		1-2 episodes	248	69.9%	70.9%					
		3-5 episodes	60	16.9%	17.1%					
		>5 episodes	42	11.8%	12.0%					
		Missing	5	1.4%		_				
		Sum	355	100%	100%					
	Severe	hypoglycaemia - previous								
		Yes	564	8.8%	9.6%					
		No	5302	82.4%	90.4%					
		Missing	570	8.8%		_				
		Sum	6436	100%	100%					
8.12	Maligna	ancy								
		Metastatic solid								
		tumour**	128	2.0%	2.2%					
		Non-metastatic solid								
		tumour**	268	4.2%	4.5%					
		Leukaemia**	29	0.5%	0.5%					
		Lymphoma**	39	0.6%	0.7%					
		Other**	128	2.0%	2.2%					
		Not applicable	5297	82.3%	89.1%					
		Missing	489	7.6%						
	** multi	ple malignacies reported in s	ome patients							
8.13	Liver dis	sease								
		Mild	423	6.6%	7.2%					
		Moderate/severe	156	2.4%	2.7%					
		Not applicable	5265	81.8%	90.1%					
		Missing	592	9.2%						
		Sum	6436	100%	100%	•				

<sup>\*</sup>Relative % = % of the total excluding the missing values

### SECTION 4.9 RENAL FUNCTION & BLOOD GLUCOSE CONTROL

		SECTIO	JIN 4.3 NEINALI	ONCHONA	BLOOD GLOCO3	E CONTROL	-			
ltem	Field	Category	Total	%	Relative %*	Median	IQ	R	Min	Max
9.1	Urinary	protein/albumin result (a	ıll units)							
		Result	3784	58.8%	100%					
		Missing	2652	41.2%						
		Sum	6436	100%	100%					
	Urinary	protein/albumin result (r	ng/L)							
		Result	1666	25.9%	100%	10.2	4.0 - 4	43.0	0.0	8460.0
	Urinary	protein/albumin result (µ	ıg/min)							
		Result	33	0.5%	100%	8.0	5 - 3	17	0.0	3090.0
	Urinary	protein/albumin result (r	ng/24hr)							
		Result	12	0.2%	100%	23.7	12.5	- 70	0.0	7600.0
	Albumii	n:creatinine (ratio)								
		Result	2073	32.2%	100%	1.9	0.4 -	7.9	0.0	1810.0
9.2	Serum (	creatinine (µmol/L)								
		Creatinine	5264	81.8%	100%	78	65 - 99		6	1330
		Missing	1172	18.2%						
		Sum	6436	100%	100%					
ltem	Field	Category	Total	%	Relative %*	Median	Mean	SD	Min	Max
9.3.1	HbA1c	(%)								
		HbA1c%	5792	90.0%	100%	7.8	8.1	1.8	4.1	19.9
		Missing	644	10.0%						
		Sum	6436	100%	100%					
9.3.2	HbA1c	(mmol/mol)								
		HbA1c mmol/mol	5226	81.2%	100%	62.0	64.9	20.0	21.0	194.0
		Missing	1210	18.8%						
		Sum	6436	100%	100%					

<sup>\*</sup>Relative % = % of the total excluding the missing values

# 5. Missing Data

Table 5.1 Overall missing data

	0 and ≤5	>5 and ≤10	>10 and ≤15	>15 and ≤20	>20 and ≤40	>40
Missing data	75.0%	20.0%	2.5%	2.5%	0.0%	0.0%

Table 5.2 Missing data by field

		20	19	20	017	20	15
ltem no.	Clinical Parameters	(n=6	436)	(n=5	5719)	(n=5	183)
110.		n	%	n	%	n	%
Demogra	phics						
1.1	Date of birth	0	0.0	0	0.0	9	0.2
1.2	Gender	77	1.2	57	1.0	110	2.1
1.2.1	Currently pregnant (females aged 18-55 yrs)	78	1.2	77	1.3	90	1.7
1.3	Date of visit	0	0.0	0	0.0	0	0.0
1.4	Initial visit	82	1.3	129	2.3	221	4.3
1.5	Aboriginal/Torres Strait Islander	395	6.1	396	6.9	458	8.8
1.6	Country of birth	280	4.4	325	5.7	619	11.9
1.7	NDSS	614	9.5	771	13.5	1008	19.4
1.8	DVA	608	9.4	568	9.9	1005	19.4
Diabetes	type and management						
2.1	Year of diagnosis	128	2.0	88	1.5	176	3.4
2.2	Type of diabetes	26	0.4	16	0.3	76	1.5
2.3	Blood glucose monitoring	558	8.7	NA	NA	NA	NA
2.4	Management method	55	0.9	29	0.5	440	8.5
2.4.1	Years on insulin	364	5.7	247	4.3	359	6.9
2.4.2	Insulin mode	66	1.0	53	0.9	335	6.5
Height, v	veight and smoking status						
3.1	Weight	205	3.2	149	2.6	198	3.8
3.2	Height	524	8.1	415	7.3	559	10.8
3.3	Smoking status	299	4.6	264	4.6	780	15.0
3.3.1	Number of years spent smoking (current or	176	6.7	227	9.4	NA	NA
	past smokers)						
Blood pro							
4.1	Blood pressure - systolic	236	3.7	261	4.6	275	5.3
4.1	Blood pressure - diastolic	236	3.7	261	4.6	274	5.3
4.2	On anti-hypertensive treatment	34	0.5	62	1.1	123	2.4
	related eye disease						
5.1	Attended optometrist/ophthalmologist	36	0.8	367	0.9	441	2.2
5.2	Fundus examination	50	0.8	51	0.9	112	2.2
5.3	Retinopathy	76	1.2	59	1.0	199	3.8
5.4	Treatment for retinopathy	89	1.4	NA	NA	NA	NA
5.5	Right or left cataract	92	1.4	NA	NA	NA	NA

ltom		20	)19	20	)17	20	15
ltem no.	Clinical Parameters	(n=6	6436)	(n=5	5719)	(n=5	183)
110.		n	%	n	%	n	%
Diabetes	related foot problems						
6.1	Peripheral neuropathy - last 12 months	33	0.5	20	0.3	94	1.8
	Peripheral neuropathy - previous	171	2.7	294	5.1	NA	NA
6.2	Foot ulceration - last 12 months	28	0.4	16	0.3	95	1.8
	Foot ulceration - previous	78	1.2	170	3.0	NA	NA
6.3	Peripheral vascular disease - last 12 months	32	0.5	20	0.3	102	2.0
	Peripheral vascular disease - previous	173	2.7	299	5.2	NA	NA
6.4	Lower limb amputation - last 12 months	31	0.5	30	0.5	43	0.8
	Lower limb amputation - previous	170	2.6	292	5.1	653	12.6
Medicati	ons and lipids						
7.1	Aspirin	14	0.2	21	0.4	35	0.7
7.2	Other anti-platelets	21	0.3	29	0.5	107	2.1
7.3	Anti-coagulants	22	0.3	36	0.6	109	2.1
7.4	On lipid lowering therapy	16	0.2	15	0.3	31	0.6
7.4.1	On lipid lowering therapy - Statin	5	0.1	7	0.1	21	0.4
7.4.2	On lipid lowering therapy - Fibrate	55	0.9	112	2.0	323	6.2
7.4.3	On lipid lowering therapy - Ezetrol	58	0.9	102	1.8	320	6.2
7.4.4	On lipid lowering therapy - Fish oil	63	1.0	113	2.0	330	6.4
7.5	Lipids measured	17	0.3	19	0.3	NA	NA
7.5.1	Lipids measured - Total cholesterol	48	0.7	15	0.3	1018	19.6
7.5.2	Lipids measured - LDL cholesterol	675	10.5	883	15.4	1779	34.3
7.5.3	Lipids measured - HDL cholesterol	564	8.8	575	10.1	1544	29.8
7.5.4	Lipids measured - Triglycerides	174	2.7	159	2.8	1116	21.5
7.5.5	Lipids measured - Fasting lipids	19	0.3	476	8.3	1734	33.5
Complica	ations/events/comorbidities						
	Stroke - last 12 months	14	0.2	11	0.2	27	0.5
	Stroke - previous	168	2.6	287	5.0	641	12.4
8.2	Myocardial infarction - last 12 months	17	0.3	139	2.4	33	0.6
	Myocardial infarction - previous	160	2.5	287	5.0	638	12.3
8.3	CABG - last 12 months	20	0.3	14	0.2	44	0.8
	CABG - previous	161	2.5	291	5.1	643	12.4
8.4	Congestive cardiac failure - last 12 months	493	7.7	478	8.4	816	15.7
	Congestive cardiac failure - previous	552	8.6	628	11.0	1059	20.4
8.5	End stage renal disease - last 12 months	12	0.2	17	0.3	41	0.8
	End stage renal disease - previous	163	2.5	294	5.1	648	12.5
8.6	Blindness - last 12 months	106	1.6	139	2.4	403	7.8
	Blindness - previous	165	2.6	294	5.1	658	12.7
8.7	Sexual dysfunction - last 12 months	128	4.0	NA	NA	NA	NA
	Sexual dysfunction - previous	234	7.4	NA	NA	NA	NA
8.8	Dementia - last 12 months	493	7.7	478	8.4	827	16.0

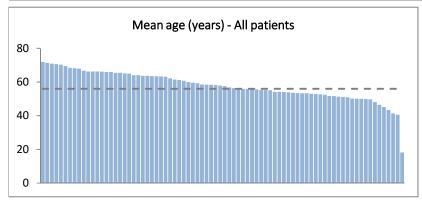
Itam		20	19	20	17	20	15
ltem no.	Clinical Parameters	(n=6	436)	(n=5	719)	(n=5	183)
110.		n	%	n	%	n	%
8.9	Diabetic ketoacidosis - last 12 months	105	1.6	NA	NA	NA	NA
	Diabetic ketoacidosis - previous	172	2.7	NA	NA	NA	NA
8.10	Hyperosmolar hyperglycaemic state - last 12 months	109	1.7	NA	NA	NA	NA
	Hyperosmolar hyperglycaemic state - previous	175	2.7	NA	NA	NA	NA
8.11	Severe hypoglycaemia - last 12 months	126	2.0	27	0.5	55	1.1
	Severe hypoglycaemia - last 12 months - No. of episodes	5	1.4	16	4.3	NA	NA
	Severe hypoglycaemia - previous	570	8.9	628	11.0	NA	NA
8.12	Malignancy	489	7.6	750	13.1	1324	25.5
8.13	Liver disease	592	9.2	574	10.0	970	18.7
Renal fur	nction and blood glucose control						
9.1	Urinary protein/albumin collected	24	0.4	15	0.3	448	8.6
9.1.1	Urinary protein/albumin result	0	0.0	9	0.2	1	0.0
9.1.2	Urinary protein/albumin unit	0	0.0	9	0.2	59	1.1
9.2	Serum creatinine	1172	18.2	1082	18.9	796	15.4
9.3.1	Glycated haemoglobin (%)	644	10.0	649	11.3	786	15.2
9.3.2	Glycated haemoglobin (mmol/mol)	1210	18.8	1053	18.4	3514	67.8

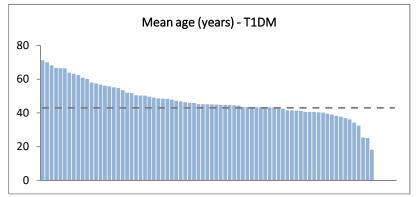
# 6. Descriptive Report

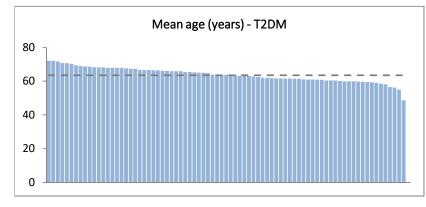
# **6.1 Patient Characteristics**

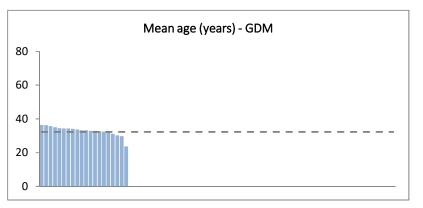
Mean age, BMI and duration by diabetes type

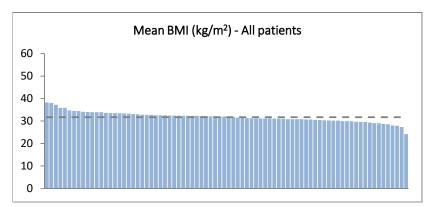
Diabetes type	Age (years)				BMI (kg/m²)				Duration (years)						
Diabetes type	n	Mean	SD	Min	Max	n	Mean	SD	Min	Max	n	Mean	SD	Min	Max
T1DM	1729	43.0	16.9	18.0	97.9	1584	27.8	6.7	12.5	120.8	1721	20.3	14.2	0.0	80.0
T2DM	4143	63.5	13.3	18.6	101.8	3856	33.5	10.0	0.0	387.1	4095	13.4	9.5	0.0	70.0
GDM	320	32.3	5.4	18.0	58.0	300	31.5	6.9	13.0	55.1	319	0.1	0.5	0.0	7.0
Don't know	93	49.0	18.8	18.9	88.4	30	29.5	7.6	17.3	50.1	24	10.4	13.9	0.0	45.0
Other	125	54.1	17.0	18.8	84.9	116	27.7	7.3	15.9	70.7	123	8.1	9.2	0.0	60.0
Unstated	26	50.5	19.9	20.0	79.1	15	26.5	8.9	0.0	37.0	26	13.3	13.3	0.0	52.0
Total	6436	56.0	17.7	18.0	101.8	5901	31.7	9.3	0.0	387.1	6308	14.5	11.7	0.0	80.0

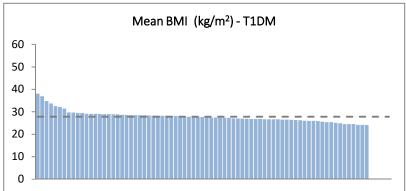


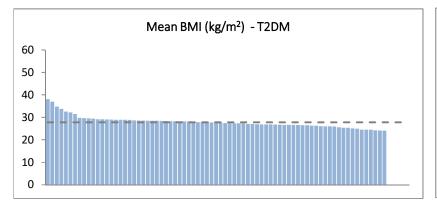


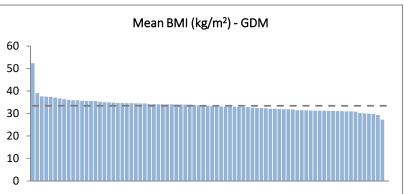


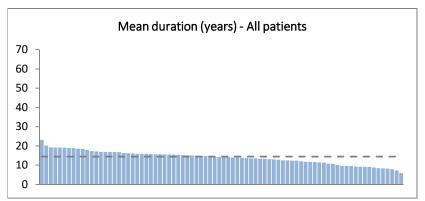


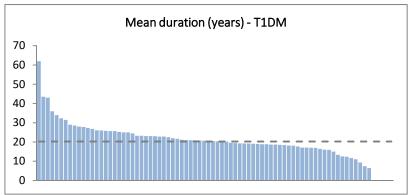


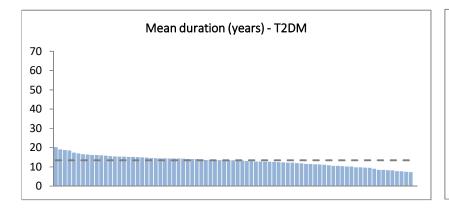


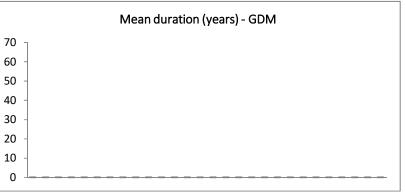






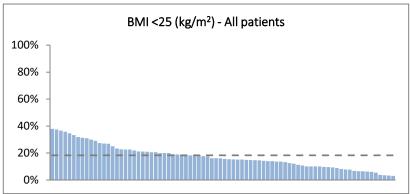


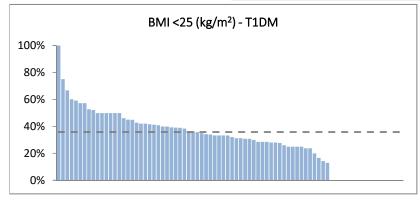


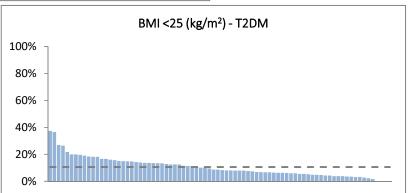


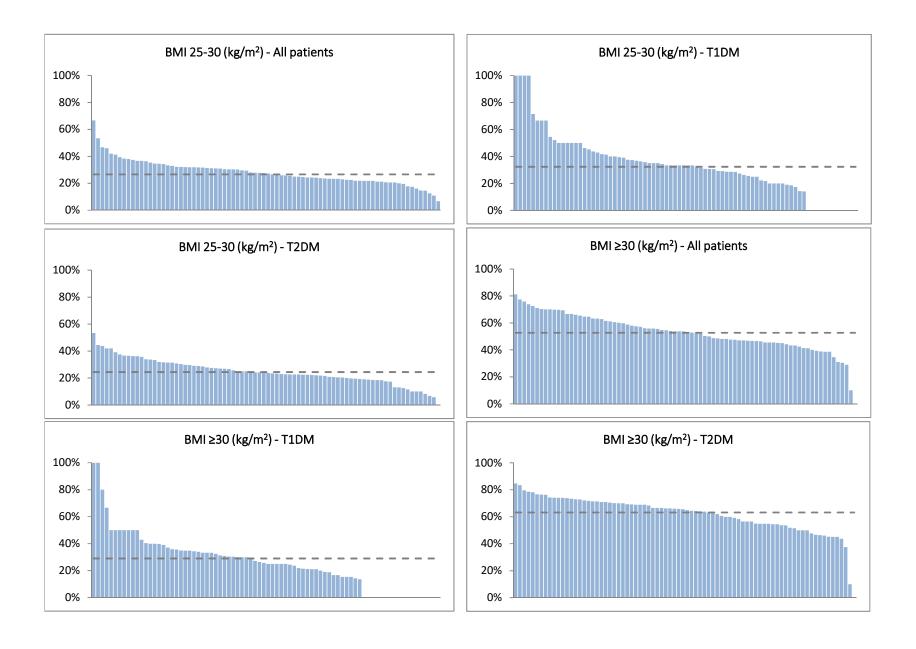
BMI by diabetes type

						-,,,,,					
Diabetes type	<25 (kg/m <sup>2</sup> )			25-30 (kg/m <sup>2</sup> )			≥	30 (kg/m	<sup>2</sup> )	Total	
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	%
T1DM	567	35.8	52.4	558	35.2	32.6	459	29.0	14.8	1584	26.8
T2DM	408	10.6	37.7	1012	26.2	59.2	2436	63.2	78.4	3856	65.3
GDM	50	16.7	4.6	86	28.7	5.0	164	54.7	5.3	300	5.1
Don't know	7	23.3	0.6	10	33.3	0.6	13	43.3	0.4	30	0.5
Other	46	39.7	4.3	37	31.9	2.2	33	28.4	1.1	116	2.0
Unstated	4	26.7	0.4	7	46.7	0.4	4	26.7	0.1	15	0.3
Total	1082	18.3		1710	29.0		3109	52.7		5901	





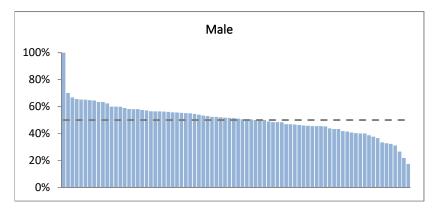


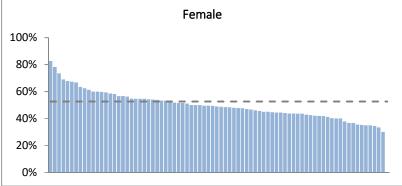


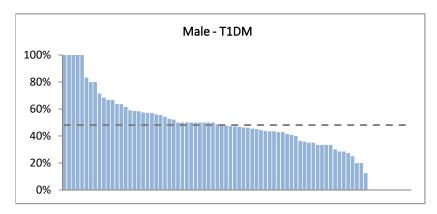
X-axis: All sites (Descending order)

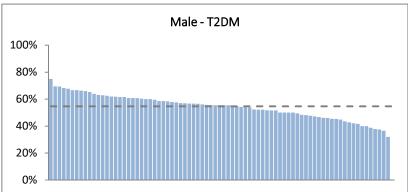
Gender by diabetes type

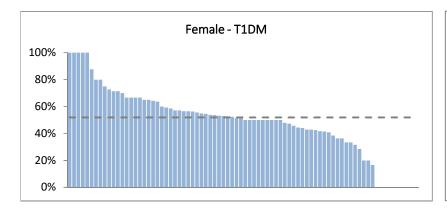
	Males			Females		Total		
n	R%	C%	n	R%	C%	n	%	
826	48.1	26.0	891	51.9	28.0	1717	27.0	
2246	54.7	70.7	1861	45.3	58.5	4107	64.6	
NA	NA	NA	320	100.0	10.1	320	5.0	
33	47.1	1.0	37	52.9	1.2	70	1.1	
66	53.7	2.1	57	46.3	1.8	123	1.9	
8	36.4	0.3	14	63.6	0.4	22	0.3	
3179	50.0		3180	50.0		6359		
	826 2246 NA 33 66	n R% 826 48.1 2246 54.7 NA NA 33 47.1 66 53.7 8 36.4	n         R%         C%           826         48.1         26.0           2246         54.7         70.7           NA         NA         NA           33         47.1         1.0           66         53.7         2.1           8         36.4         0.3	Males           n         R%         C%         n           826         48.1         26.0         891           2246         54.7         70.7         1861           NA         NA         NA         320           33         47.1         1.0         37           66         53.7         2.1         57           8         36.4         0.3         14	n         R%         C%         n         R%           826         48.1         26.0         891         51.9           2246         54.7         70.7         1861         45.3           NA         NA         NA         320         100.0           33         47.1         1.0         37         52.9           66         53.7         2.1         57         46.3           8         36.4         0.3         14         63.6	Males         Females           n         R%         C%         n         R%         C%           826         48.1         26.0         891         51.9         28.0           2246         54.7         70.7         1861         45.3         58.5           NA         NA         NA         320         100.0         10.1           33         47.1         1.0         37         52.9         1.2           66         53.7         2.1         57         46.3         1.8           8         36.4         0.3         14         63.6         0.4	Males         Females         To           n         R%         C%         n         R%         C%         n           826         48.1         26.0         891         51.9         28.0         1717           2246         54.7         70.7         1861         45.3         58.5         4107           NA         NA         NA         320         100.0         10.1         320           33         47.1         1.0         37         52.9         1.2         70           66         53.7         2.1         57         46.3         1.8         123           8         36.4         0.3         14         63.6         0.4         22	

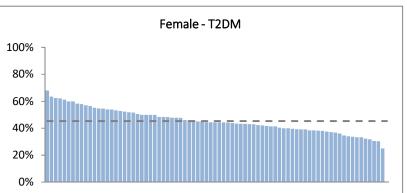








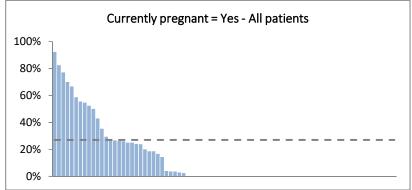


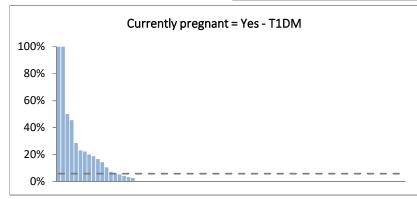


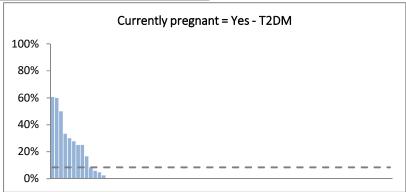
Currently pregnant\* by diabetes type

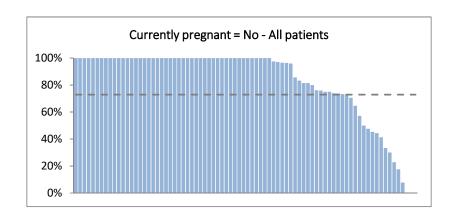
		Yes			No		Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%	
T1DM	36	5.8	9.1	585	94.2	55.0	621	42.6	
T2DM	40	8.4	10.1	437	91.6	41.1	477	32.7	
GDM	317	99.4	80.3	2	0.6	0.2	319	21.9	
Don't know	0	0.0	0.0	10	100.0	0.9	10	0.7	
Other	1	3.7	0.3	26	96.3	2.4	27	1.9	
Unstated	1	20.0	0.3	4	80.0	0.4	5	0.3	
Total	395	27.1		1064	72.9		1459		

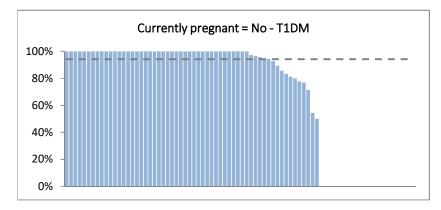
<sup>\*</sup> females aged 18-55 years

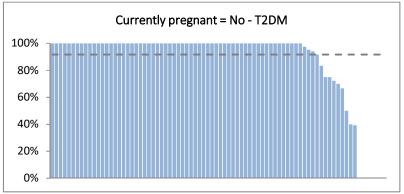








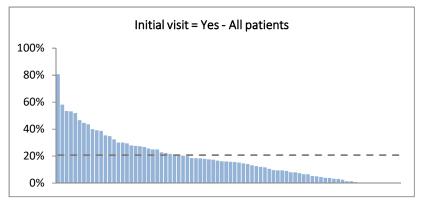


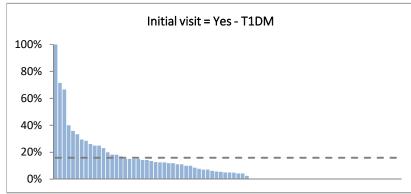


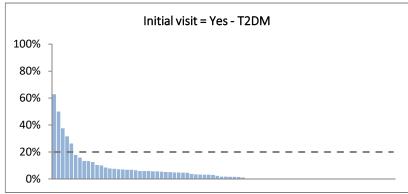
<sup>\*</sup>Females aged 18-55 years

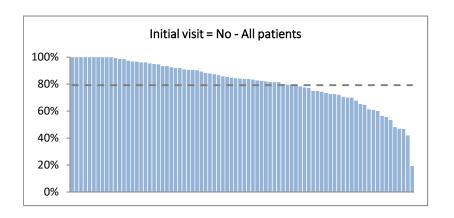
Initial visit by diabetes type

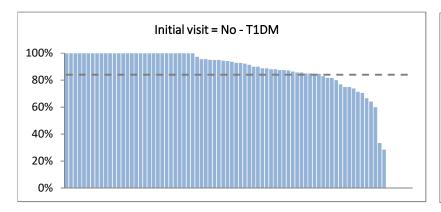
	Yes			No		Total		
n	R%	C%	n	R%	C%	n	%	
272	15.9	20.6	1434	84.1	28.5	1706	26.8	
817	20.0	61.9	3273	80.0	65.0	4090	64.4	
131	40.9	9.9	189	59.1	3.8	320	5.0	
61	67.8	4.6	29	32.2	0.6	90	1.4	
27	22.1	2.0	95	77.9	1.9	122	1.9	
11	42.3	0.8	15	57.7	0.3	26	0.4	
1319	20.8		5035	79.2		6354		
	272 817 131 61 27 11	n R% 272 15.9 817 20.0 131 40.9 61 67.8 27 22.1 11 42.3	n         R%         C%           272         15.9         20.6           817         20.0         61.9           131         40.9         9.9           61         67.8         4.6           27         22.1         2.0           11         42.3         0.8	n         R%         C%         n           272         15.9         20.6         1434           817         20.0         61.9         3273           131         40.9         9.9         189           61         67.8         4.6         29           27         22.1         2.0         95           11         42.3         0.8         15	n         R%         C%         n         R%           272         15.9         20.6         1434         84.1           817         20.0         61.9         3273         80.0           131         40.9         9.9         189         59.1           61         67.8         4.6         29         32.2           27         22.1         2.0         95         77.9           11         42.3         0.8         15         57.7	n         R%         C%         n         R%         C%           272         15.9         20.6         1434         84.1         28.5           817         20.0         61.9         3273         80.0         65.0           131         40.9         9.9         189         59.1         3.8           61         67.8         4.6         29         32.2         0.6           27         22.1         2.0         95         77.9         1.9           11         42.3         0.8         15         57.7         0.3	n         R%         C%         n         R%         C%         n           272         15.9         20.6         1434         84.1         28.5         1706           817         20.0         61.9         3273         80.0         65.0         4090           131         40.9         9.9         189         59.1         3.8         320           61         67.8         4.6         29         32.2         0.6         90           27         22.1         2.0         95         77.9         1.9         122           11         42.3         0.8         15         57.7         0.3         26	

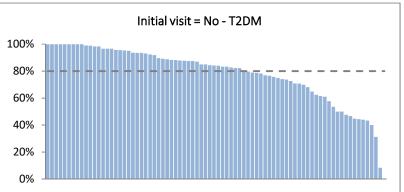






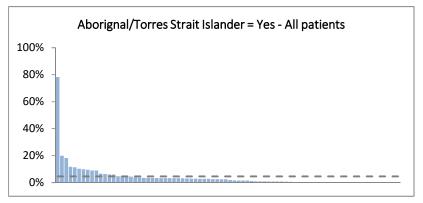


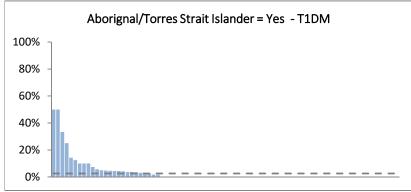


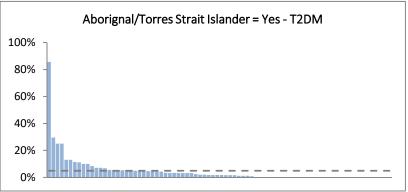


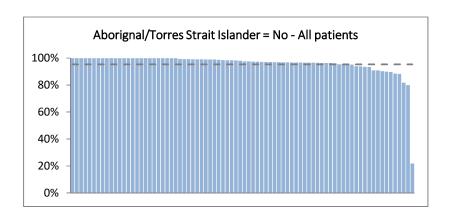
Aborignal/Torres Strait Islander status by diabetes type

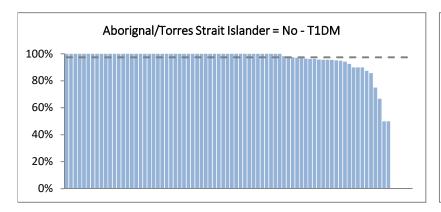
Diabetes type	Yes			No			Total	
	n	R%	C%	n	R%	C%	n	%
T1DM	41	2.6	14.6	1555	97.4	27.0	1596	26.4
T2DM	195	4.9	69.4	3775	95.1	65.5	3970	65.7
GDM	41	12.9	14.6	278	87.1	4.8	319	5.3
Don't know	0	0.0	0.0	23	100.0	0.4	23	0.4
Other	3	2.6	1.1	112	97.4	1.9	115	1.9
Unstated	1	5.6	0.4	17	94.4	0.3	18	0.3
Total	281	4.7		5760	95.3		6041	

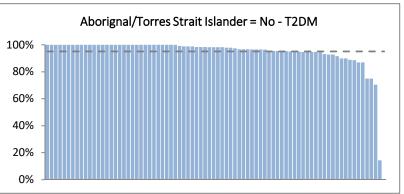






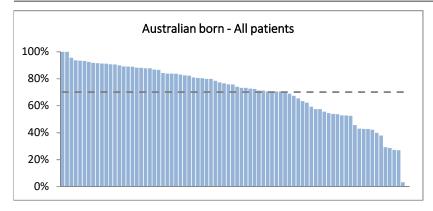


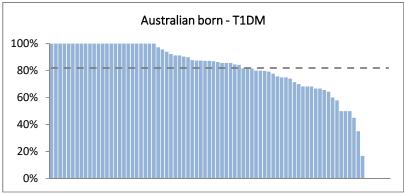


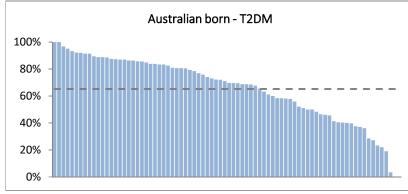


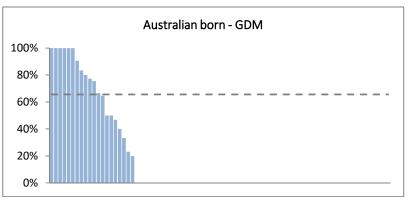
Australian born by diabetes type

Diabetes type		Yes			No		То	tal
Diabetes type	n	R%	C%	n	R%	C%	n	%
T1DM	1367	81.9	31.7	302	18.1	16.4	1669	27.1
T2DM	2585	65.2	59.9	1380	34.8	75.0	3965	64.4
GDM	208	65.6	4.8	109	34.4	5.9	317	5.1
Don't know	52	85.2	1.2	9	14.8	0.5	61	1.0
Other	90	75.0	2.1	30	25.0	1.6	120	1.9
Unstated	15	62.5	0.3	9	37.5	0.5	24	0.4
Total	4317	70.1		1839	29.9		6156	



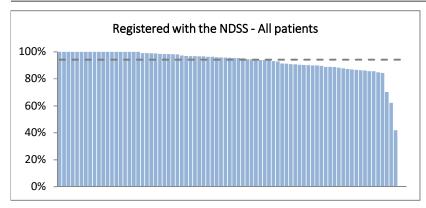


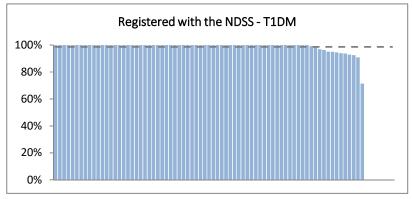


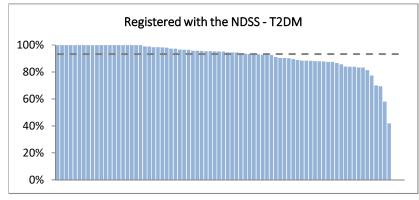


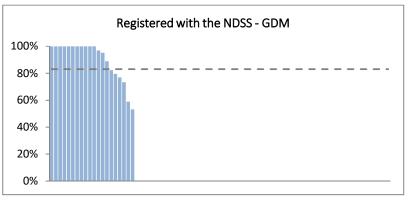
NDSS by diabetes type

Diabetes type		Yes			No		То	tal
Diabetes type	n	R%	C%	n	R%	C%	n	%
T1DM	1542	98.6	28.1	22	1.4	6.5	1564	26.9
T2DM	3543	93.3	64.6	254	6.7	75.1	3797	65.2
GDM	264	83.0	4.8	54	17.0	16	318	5.5
Don't know	14	70.0	0.3	6	30.0	2	20	0.3
Other	106	98.1	1.9	2	1.9	0.6	108	1.9
Unstated	15	100.0	0.3	0	0.0	0	15	0.3
Total	5484	94.2		338	5.8		5822	





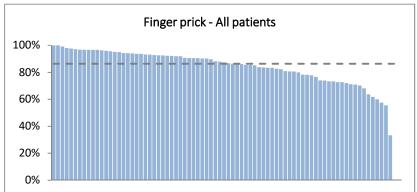


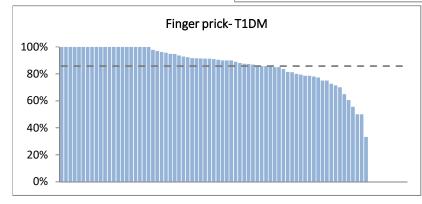


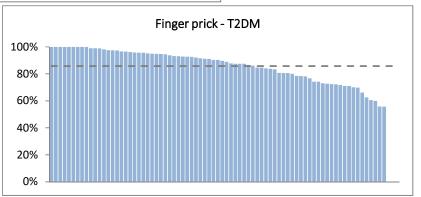
Methods of blood glucose monitoring\*

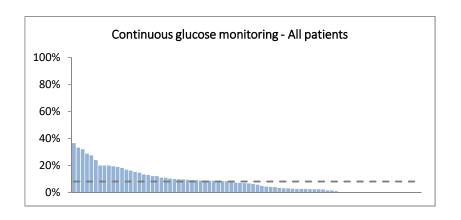
				1710	ci ioas oi	DICCG BI	40000 11101				
Diabetes type		None		F	inger pric	k	Continuo	ous glucos	se monitoring	То	tal
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	%
T1DM	13	0.7	1.7	1361	75.7	26.5	423	23.5	87.2	1797	29.4
T2DM	444	11.5	58.1	3355	87.1	65.3	51	1.3	10.5	3850	62.9
GDM	26	8.1	3.4	292	91.3	5.7	2	0.6	0.4	320	5.2
Don't know	4	22.2	0.5	13	72.2	0.3	1	5.6	0.2	18	0.3
Other	4	3.5	0.5	103	89.6	2.0	8	7.0	1.6	115	1.9
Unstated	1	5.6	0.1	17	94.4	0.3	0	0.0	0.0	18	0.3
Total	492	8.0		5141	84.0		485	7.9		6118	

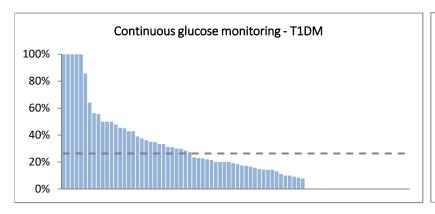
<sup>\*</sup> multiple methods reported by some patients

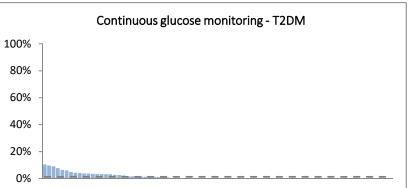






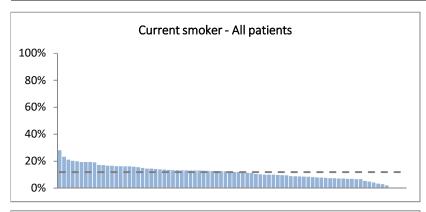


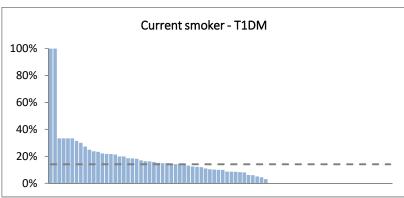


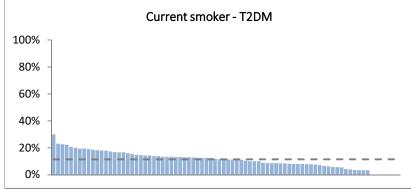


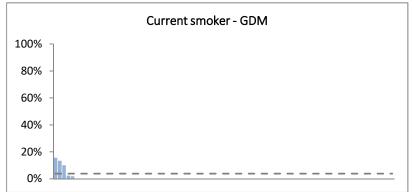
Smoking status by diabetes type

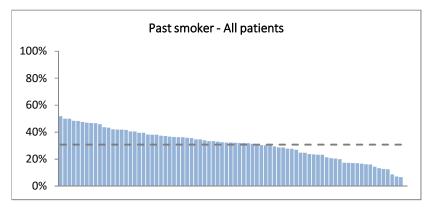
Diabatas tuna	Cui	rent smo	ker	P	ast smoke	er	Never smoked			Total		
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	%	
T1DM	234	14.1	32.1	367	22.2	19.5	1053	63.7	29.9	1654	27.0	
T2DM	460	11.5	63.0	1434	35.8	76.0	2111	52.7	60.0	4005	65.3	
GDM	12	3.8	1.6	38	12.1	2.0	264	84.1	7.5	314	5.1	
Don't know	3	13.6	0.4	3	13.6	0.2	16	72.7	0.5	22	0.4	
Other	20	16.7	2.7	37	30.8	2.0	63	52.5	1.8	120	2.0	
Unstated	1	4.5	0.1	7	31.8	0.4	14	63.6	0.4	22	0.4	
Total	730	11.9		1886	30.7		3521	57.4		6137		

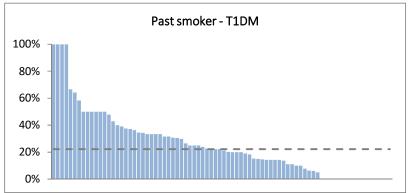


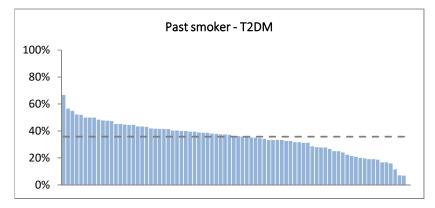


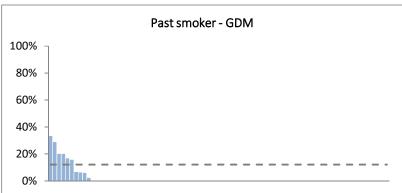


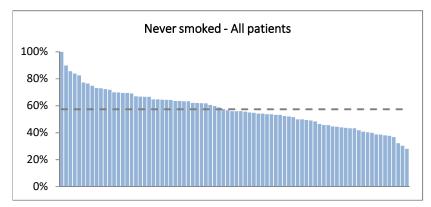


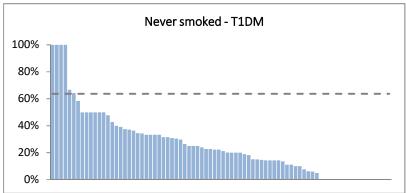


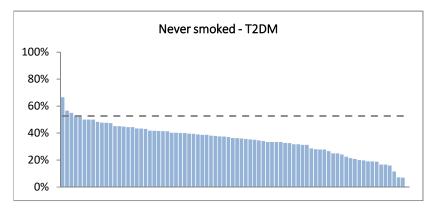


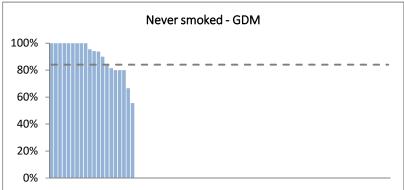








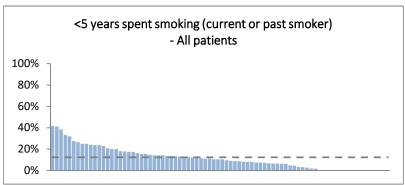


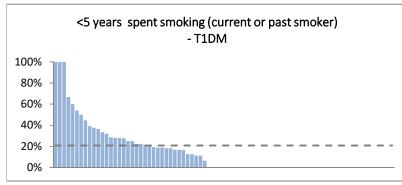


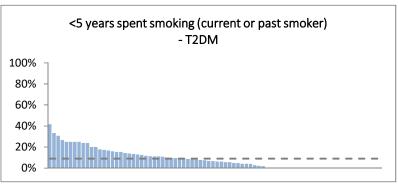
Number of years spent smoking (current or past smokers) by diabetes type

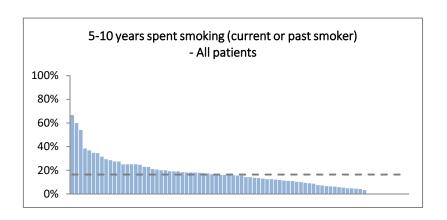
Diabatas tupa		<5 years		5-10 years			1	.1-20 year	rs	>20 years			Total	
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	R%	C%	n	%
T1DM	117	20.8	38.7	122	21.7	30.5	142	25.3	24.5	181	32.2	15.6	562	23.0
T2DM	160	9.1	53.0	249	14.1	62.3	413	23.4	71.2	944	53.5	81.5	1766	72.4
GDM	16	32.0	5.3	21	42.0	5.3	13	26.0	2.2	0	0.0	0.0	50	2.0
Don't know	0	0.0	0.0	1	16.7	0.3	4	66.7	0.7	1	16.7	0.1	6	0.2
Other	9	17.0	3.0	6	11.3	1.5	7	13.2	1.2	31	58.5	2.7	53	2.2
Unstated	0	0.0	0.0	1	33.3	0.3	1	33.3	0.2	1	33.3	0.1	3	0.1
Total	302	12.4		400	16.4		580	23.8		1158	47.5		2440	

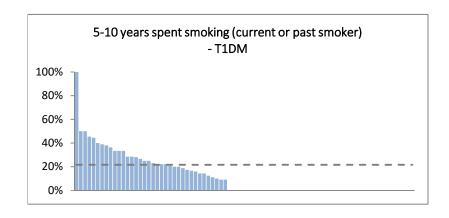
<sup>\*</sup>of patients who are current and past smokers

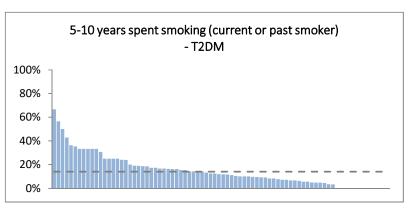


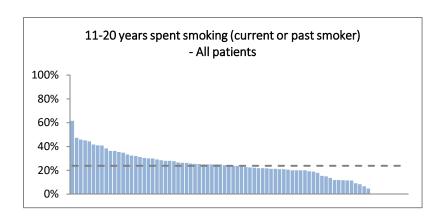


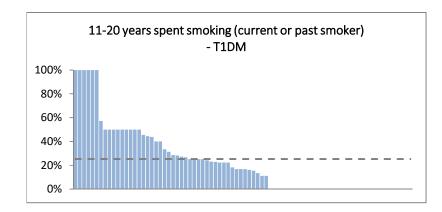


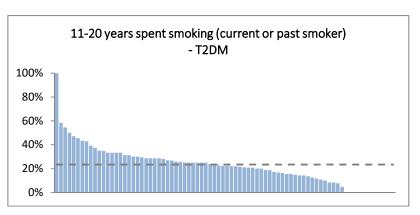


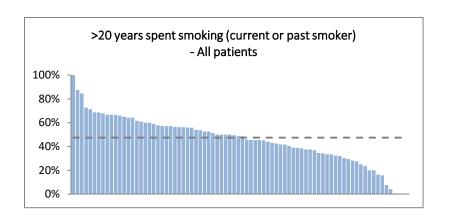


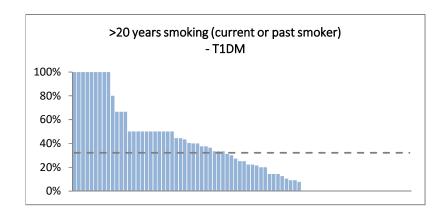


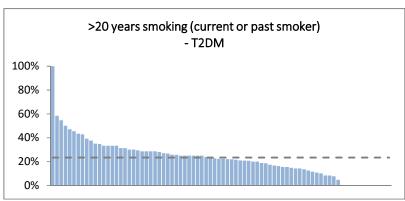






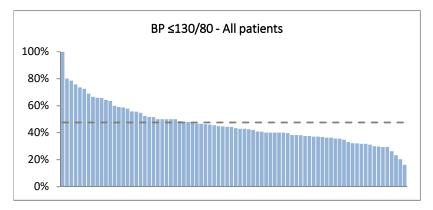


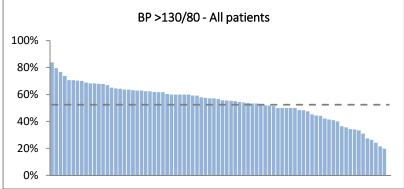


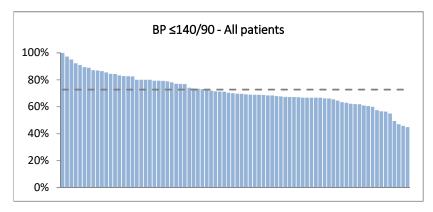


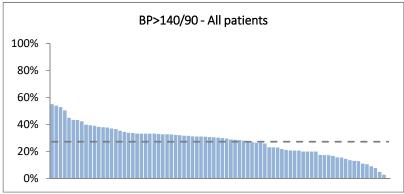
Age by blood pressure level

A.g.o.	≤130	0/80	>130	0/80	≤140	0/90	>140	0/90
Age	n	n C%	n	C%	n	C%	n	C%
≤60 years	1666	56.5	1525	46.9	2483	55.1	708	41.8
>60 years	1285	43.5	1724	53.1	2025	44.9	984	58.2
Total	2951		3249		4508		1692	







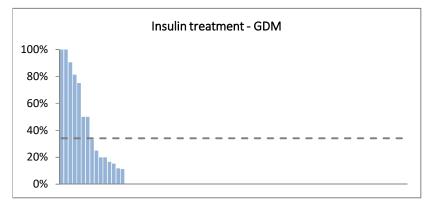


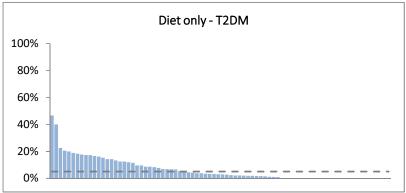
## 6.2 Diabetes Management

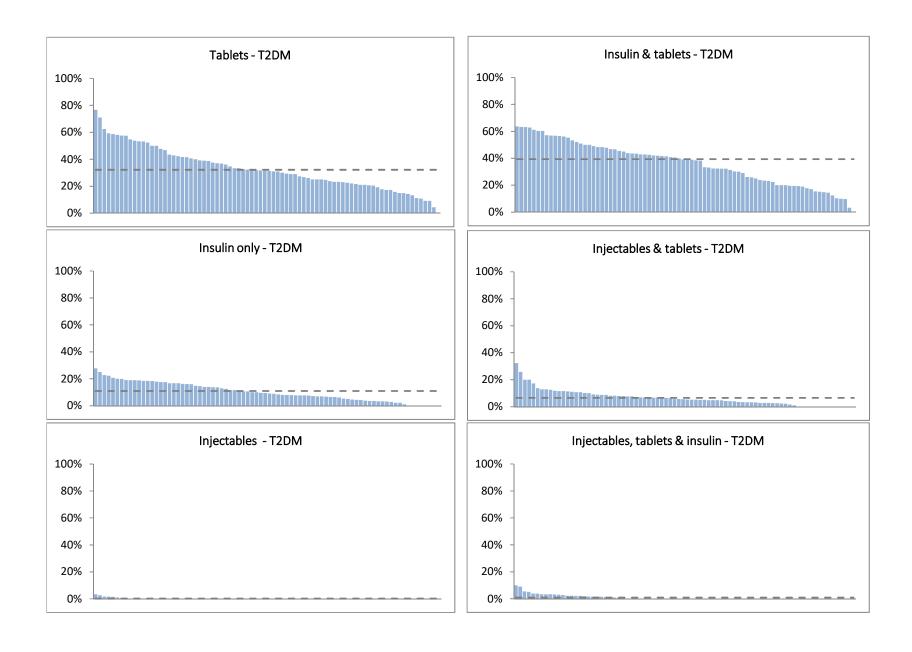
Treatment by diabetes type

Diabetes type		Diet only			Tablets			Insulin		Insulin & tablets			Injectables		
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	R%	С%	n	R%	C%
T1DM	0	0.0	0.0	0	0.0	0.0	1594	92.2	71.5	128	7.4	7.0	0	0.0	0.0
T2DM	208	5.0	51.4	1332	32.2	95.6	455	11.0	20.4	1629	39.3	89.3	6	0.1	100.0
GDM	186	58.1	45.9	24	7.5	1.7	98	30.6	4.4	11	3.4	0.6	0	0.0	0.0
Don't know	2	2.2	0.5	11	11.8	0.8	14	15.1	0.6	21	22.6	1.2	0	0.0	0.0
Other	7	5.6	1.7	16	12.8	1.1	64	51.2	2.9	34	27.2	1.9	0	0.0	0.0
Unstated	2	7.7	0.5	11	42.3	0.8	4	15.4	0.2	2	7.7	0.1	0	0.0	0.0
Total	405	6.3		1394	21.7		2229	34.6		1825	28.4		6	0.1	

Diabetes type	•	tables & ir ot graphe		Inject	ables & t	ablets	Inject	ables, tab insulin	lets &		Unstated ot graphe		То	tal
	n	R%	C%	n	R%	C%	n	R%	C%	n	R%	С%	n	%
T1DM	0	0.0	0.0	0	0.0	0.0	2	0.1	4.8	5	0.3	2.4	1729	26.9
T2DM	4	0.1	7.3	271	6.5	99.3	38	0.9	90.5	200	4.8	96.6	4143	64.4
GDM	0	0.0	0.0	1	0.3	0.4	0	0.0	0.0	0	0.0	0.0	320	5.0
Don't know	43	46.2	78.2	1	1.1	0.4	0	0.0	0.0	1	1.1	0.5	93	1.4
Other	2	1.6	3.6	0	0.0	0.0	1	0.8	2.4	1	0.8	0.5	125	1.9
Unstated	6	23.1	10.9	0	0.0	0.0	1	3.8	2.4	0	0.0	0.0	26	0.4
Total	55	0.9		273	4.2		42	0.7		207	3.2		6436	



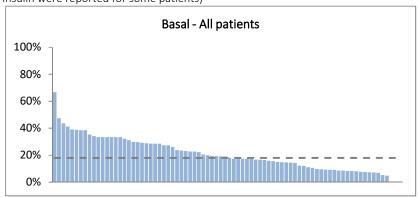


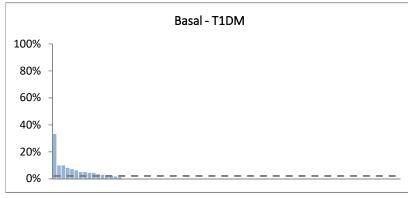


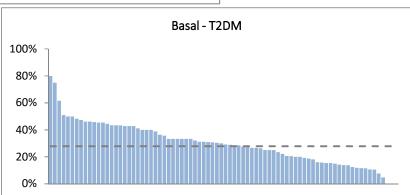
Modes of insulin by diabetes type\*

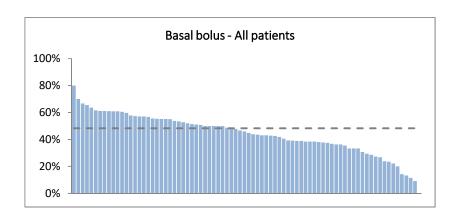
						,,,,		/						
Diabetes type -		Basal		Е	Basal bolus			Pump		Pre-mixed insulin			Total	
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	R%	C%	n	%
T1DM	36	2.1	4.7	1151	66.8	56.2	482	28.0	97.2	51	3.0	5.5	1722	40.6
T2DM	633	27.8	82.9	788	34.7	38.5	8	0.4	1.6	842	37.0	91.0	2273	53.6
GDM	67	63.2	8.8	32	30.2	1.6	0	0.0	0.0	7	6.6	0.8	106	2.5
Don't know	8	23.5	1.0	14	41.2	0.7	3	8.8	0.6	9	26.5	1.0	34	0.8
Other	20	20.8	2.6	59	61.5	2.9	3	3.1	0.6	14	14.6	1.5	96	2.3
Unstated	0	0.0	0.0	4	66.7	0.2	0	0.0	0.0	2	33.3	0.2	6	0.1
Total	764	18.0		2048	48.3		496	11.7		925	21.8		4237	

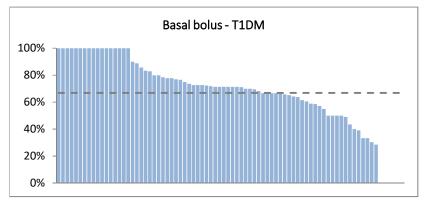
\* patients taking insulin (multiple modes of insulin were reported for some patients)

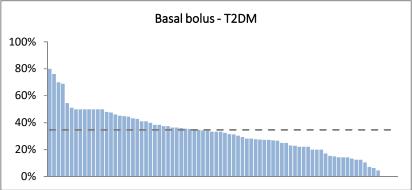


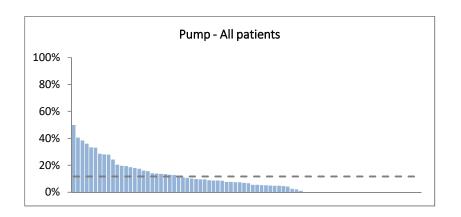


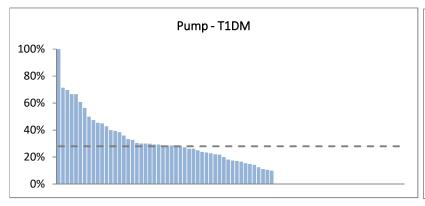


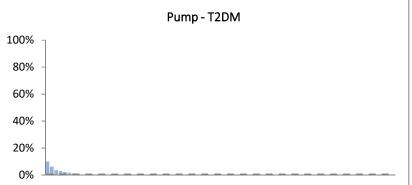


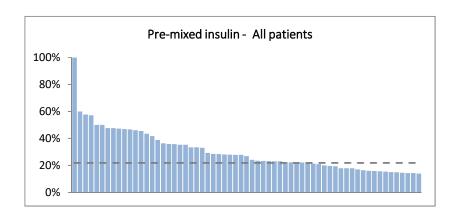


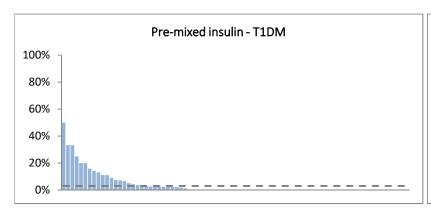


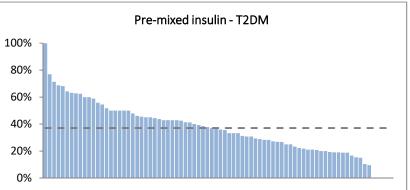






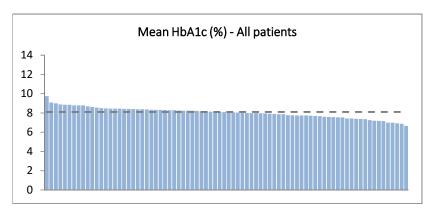


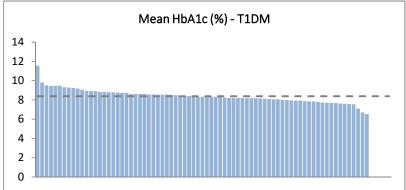


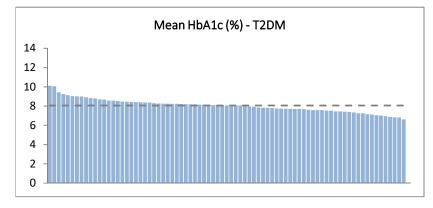


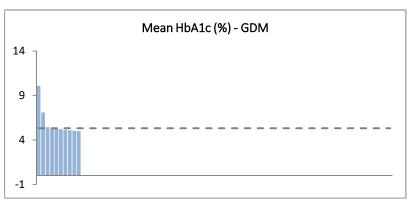
HbA1c (%) by diabetes type

Diabetes type	n	Mean	SD	Min	Max
T1DM	1616	8.4	1.7	4.6	17.7
T2DM	3903	8.1	1.8	4.4	19.9
GDM	92	5.3	0.8	4.1	10.1
Don't know	47	9.2	2.5	5.2	16.3
Other	114	7.6	1.9	4.9	13.8
Unstated	20	7.6	1.1	5.7	10.4
Total	5792	8.1	1.8	4.1	19.9



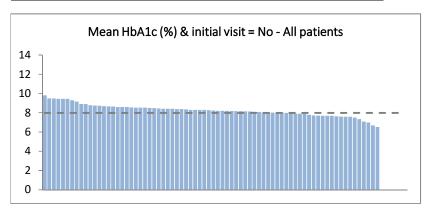


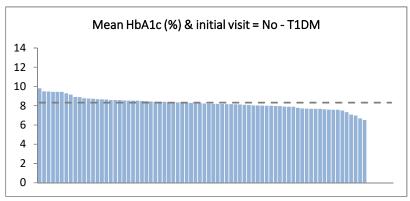


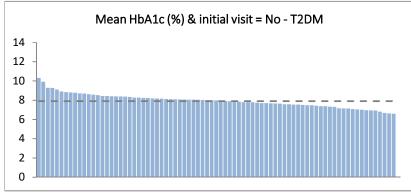


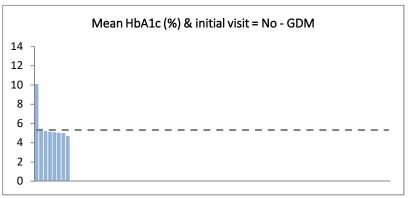
HbA1c (%) and initial visit by diabetes type

Diabetes type		HbA1c wh	en initial	visit = No	)
Diabetes type	n	Mean	SD	Min	Max
T1DM	1376	8.3	1.6	4.8	16.1
T2DM	3147	7.9	1.7	4.4	19.8
GDM	63	5.3	0.8	4.1	10.1
Don't know	17	8.7	2.1	4.8	12.9
Other	89	7.6	1.6	4.8	13.8
Unstated	14	7.6	1.0	4.8	9.3
Total	4706	8.0	1.7	4.1	19.8





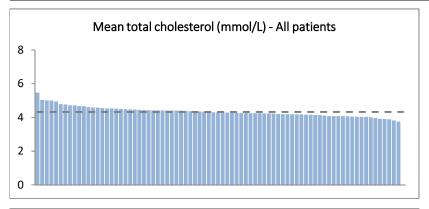


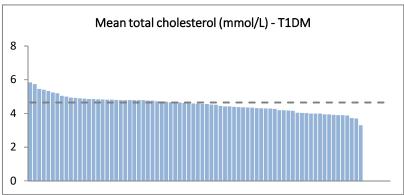


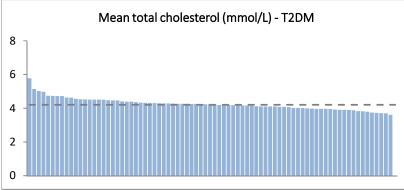
## 6.3 Lipids

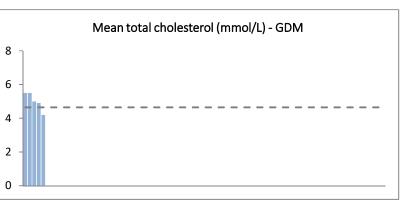
Mean total cholesterol, HDL cholesterol and triglycerides by diabetes type

Dishatastura		Total cholesterol					HDL				Triglycerides				
Diabetes type	n	Mean	SD	Min	Max	n	Mean	SD	Min	Max	n	Mean	SD	Min	Max
T1DM	1084	4.6	1.1	1.4	11.0	950	1.5	0.5	0.2	3.9	1039	1.3	1.0	0.2	10.0
T2DM	3143	4.2	1.2	1.2	20.8	2784	1.2	0.4	0.1	5.4	3071	2.2	2.2	0.4	48.0
GDM	5	5.0	0.5	4.2	5.5	4	1.4	0.2	1.1	1.7	4	1.7	0.5	1.0	2.1
Don't know	27	4.4	1.3	1.4	7.2	22	1.2	0.3	0.2	2.1	24	1.7	1.2	0.2	6.2
Other	76	4.5	1.6	1.4	10.1	66	1.4	0.5	0.2	4.0	72	2.4	3.4	0.2	18.7
Unstated	13	4.8	1.1	1.4	6.3	6	1.1	0.3	0.2	1.6	12	2.4	2.1	0.2	7.6
Total	4348	4.3	1.2	1.2	20.8	3832	1.2	0.4	0.1	5.4	4222	2.0	2.1	0.2	48.0

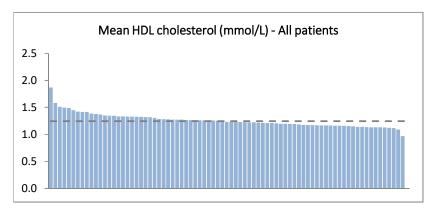


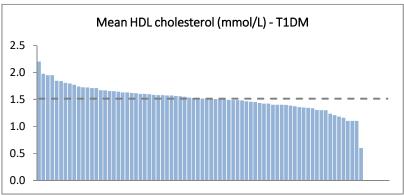


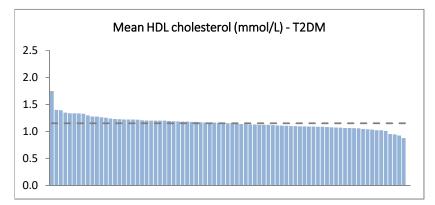


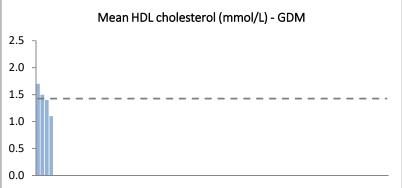


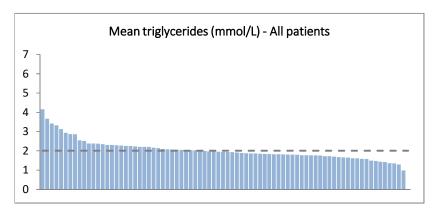
X-axis: All sites (Descending order)

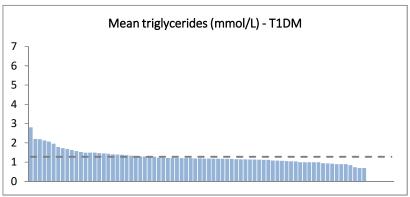


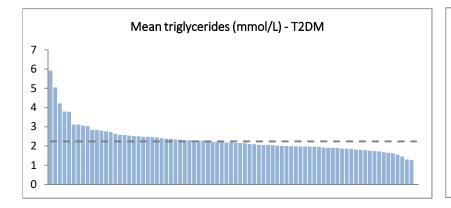


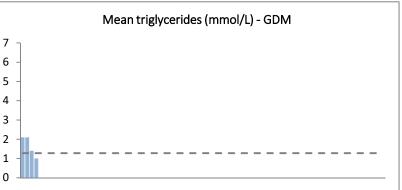








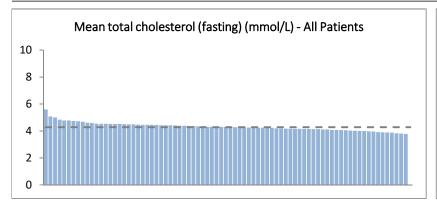


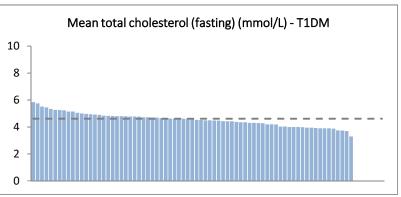


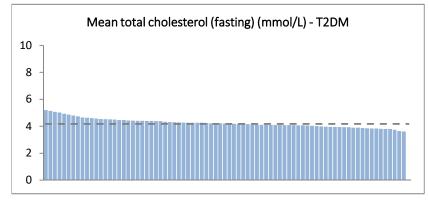
X-axis: All sites (Descending order)

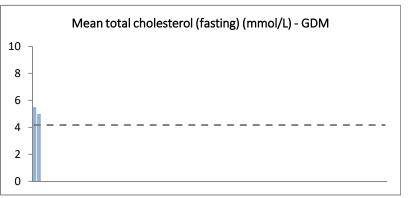
Mean total cholesterol, HDL cholesterol and triglycerides (fasting) by diabetes type

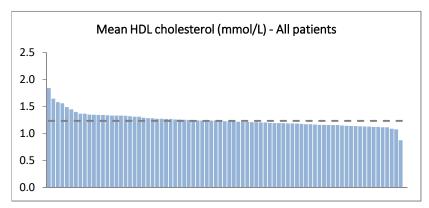
Diabetes type		Total cholesterol					HDL				Triglycerides				
Diabetes type	n	Mean	SD	Min	Max	n	Mean	SD	Min	Max	n	Mean	n SD Min	Max	
T1DM	823	4.6	1.1	1.4	11.0	753	1.5	0.5	0.2	3.9	800	1.3	1.1	0.2	10.0
T2DM	2759	4.2	1.2	1.2	20.8	2507	1.1	0.4	0.1	5.4	2715	2.2	2.0	0.4	48.0
GDM	2	5.3	0.4	5.0	5.5	2	1.6	0.1	1.5	1.7	2	2.1	0.0	2.1	2.1
Don't know	23	4.3	1.4	2.6	7.2	19	1.2	0.3	0.7	1.9	21	1.6	1.2	0.6	6.2
Other	67	4.5	1.6	2.1	10.1	59	1.4	0.5	0.6	4.0	63	2.2	3.2	0.5	18.7
Unstated	6	4.8	1.3	2.9	6.3	5	1.0	0.2	0.8	1.4	6	3.0	2.7	0.8	7.6
Total	3680	4.3	1.2	1.2	20.8	3345	1.2	0.4	0.1	5.4	3607	2.0	1.9	0.2	48.0

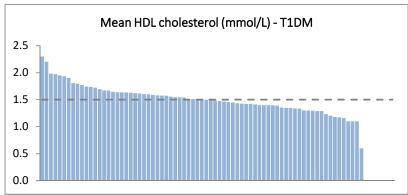


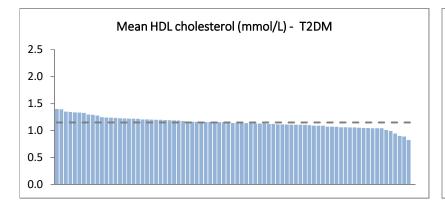


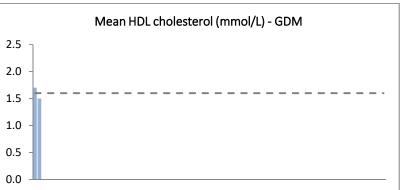


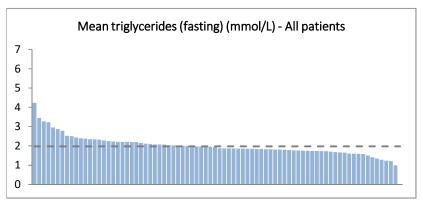


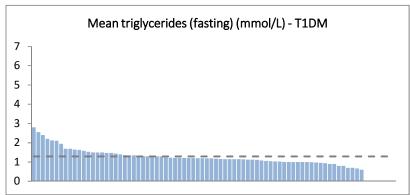


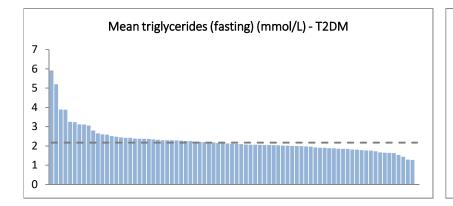


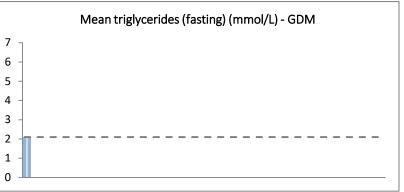








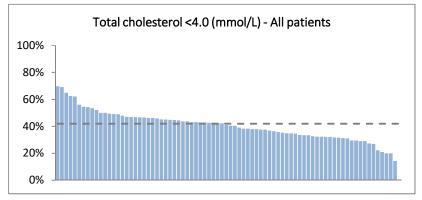


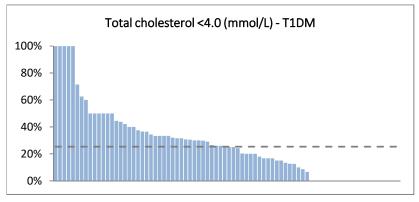


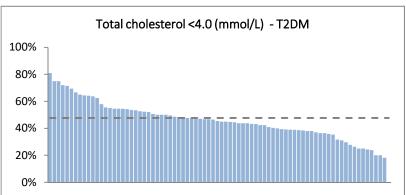
X-axis: All sites (Descending order)

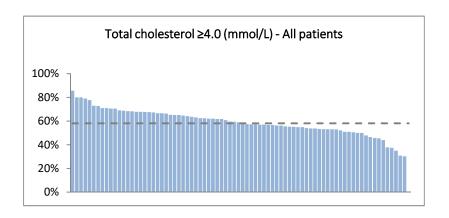
Total cholesterol by diabetes type

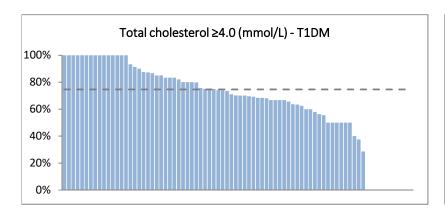
Diabetes type	<4	.0 (mmol	/L)	≥4	.0 (mmol/	Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%
T1DM	275	25.4	15.1	809	74.6	32.0	1084	24.9
T2DM	1500	47.7	82.3	1643	52.3	65.0	3143	72.3
GDM	0	0.0	0.0	5	100.0	0.2	5	0.1
Don't know	12	44.4	0.7	15	55.6	0.6	27	0.6
Other	32	42.1	1.8	44	57.9	1.7	76	1.7
Unstated	3	23.1	0.2	10	76.9	0.4	13	0.3
Total	1822	41.9		2526	58.1		4348	

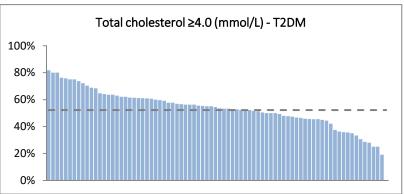






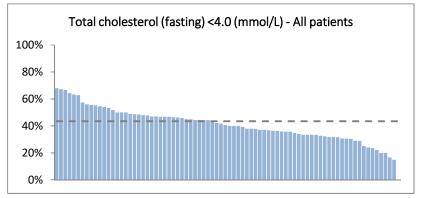


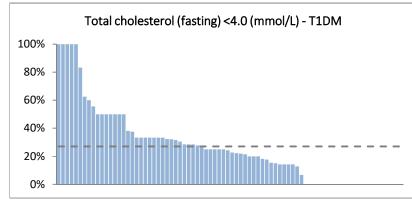


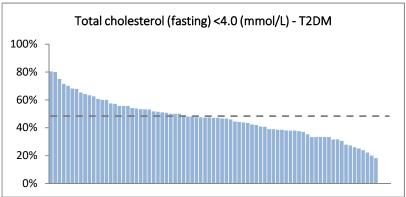


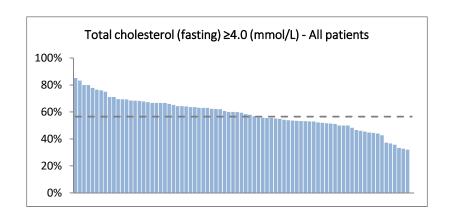
Total cholesterol (fasting) by diabetes type

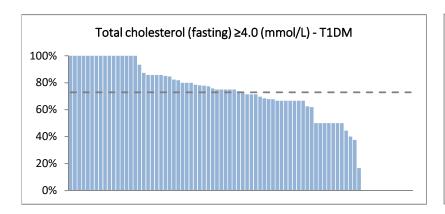
Diabetes type	<4	.0 (mmol	/L)	≥4	.0 (mmol/	Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%
T1DM	223	27.1	13.9	600	72.9	28.8	823	22.4
T2DM	1334	48.4	83.4	1425	51.6	68.5	2759	75.0
GDM	0	0.0	0.0	2	100.0	0.1	2	0.1
Don't know	11	47.8	0.7	12	52.2	0.6	23	0.6
Other	31	46.3	1.9	36	53.7	1.7	67	1.8
Unstated	1	16.7	0.1	5	83.3	0.2	6	0.2
Total	1600	43.5		2080	56.5		3680	

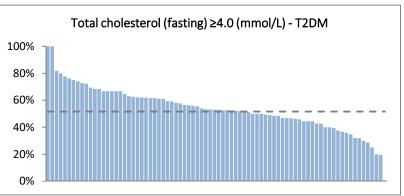






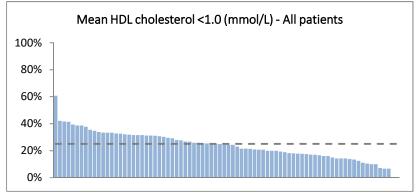


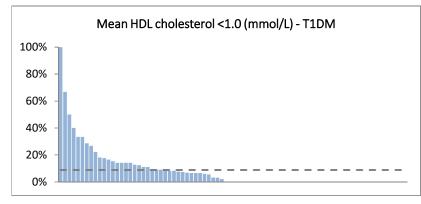


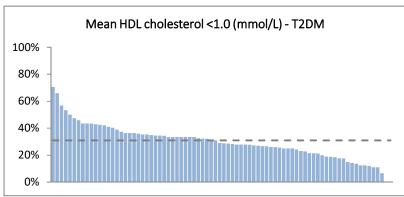


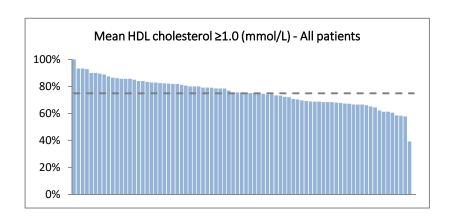
HDL cholesterol by diabetes type

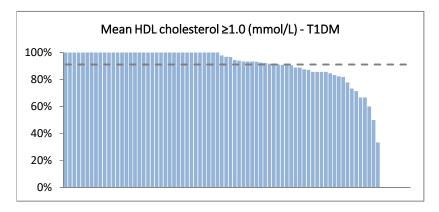
Diabetes type	<1	.0 (mmol,	/L)	≥1	0 (mmol/	Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%
T1DM	84	8.8	8.7	866	91.2	30.2	950	24.8
T2DM	861	30.9	89.6	1923	69.1	67.0	2784	72.7
GDM	0	0.0	0.0	4	100.0	0.1	4	0.1
Don't know	6	27.3	0.6	16	72.7	0.6	22	0.6
Other	7	10.6	0.7	59	89.4	2.1	66	1.7
Unstated	3	50.0	0.3	3	50.0	0.1	6	0.2
Total	961	25.1		2871	74.9		3832	

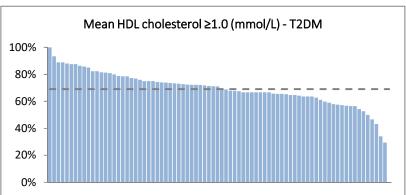






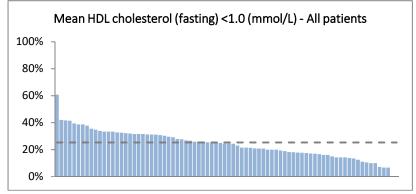


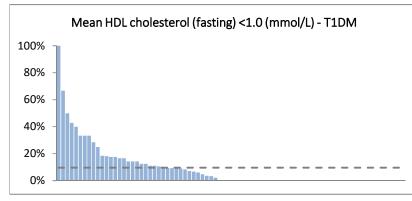


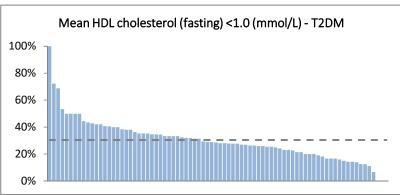


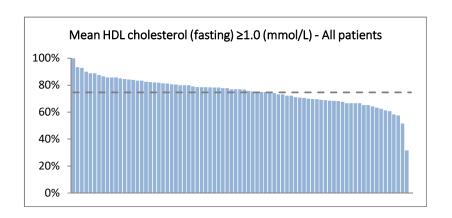
HDL cholesterol (fasting) by diabetes type

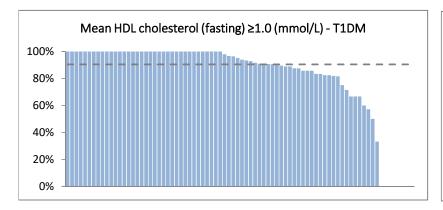
Diabetes type	<1	.0 (mmol	/L)	≥1	0 (mmol	Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%
T1DM	72	9.6	8.5	681	90.4	27.3	753	22.5
T2DM	763	30.4	90.0	1744	69.6	69.8	2507	74.9
GDM	0	0.0	0.0	2	100.0	0.1	2	0.1
Don't know	5	26.3	0.6	14	73.7	0.6	19	0.6
Other	5	8.5	0.6	54	91.5	2.2	59	1.8
Unstated	3	60.0	0.4	2	40.0	0.1	5	0.1
Total	848	25.4		2497	74.6		3345	

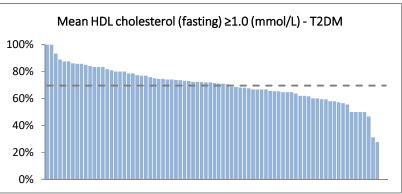






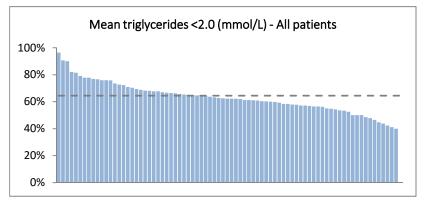


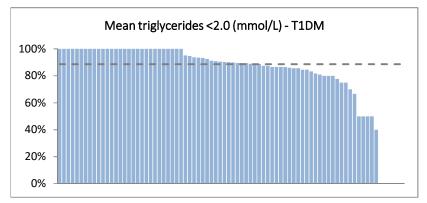


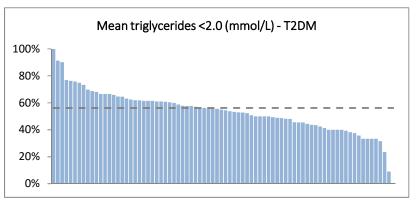


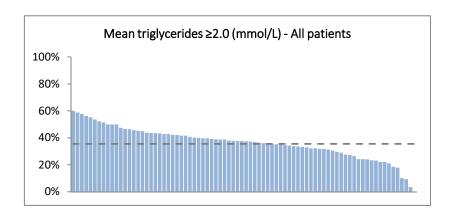
Triglycerides by diabetes type

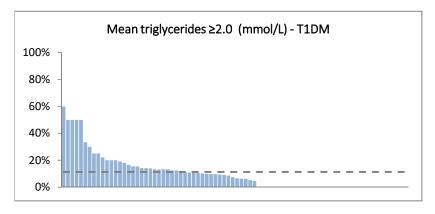
Diabotos typo	<2	.0 (mmol	/L)	≥2	.0 (mmol	Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%
T1DM	921	88.6	33.8	118	11.4	7.9	1039	24.6
T2DM	1725	56.2	63.4	1346	43.8	89.7	3071	72.7
GDM	2	50.0	0.1	2	50.0	0.1	4	0.1
Don't know	18	75.0	0.7	6	25.0	0.4	24	0.6
Other	49	68.1	1.8	23	31.9	1.5	72	1.7
Unstated	7	58.3	0.3	5	41.7	0.3	12	0.3
Total	2722	64.5		1500	35.5		4222	

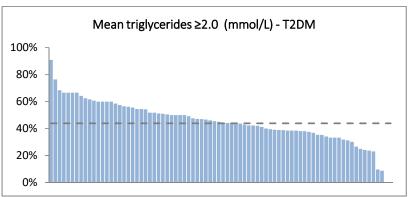






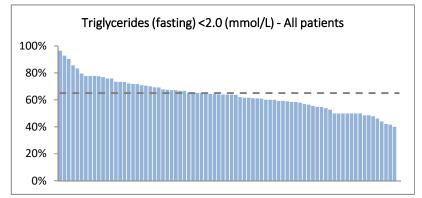


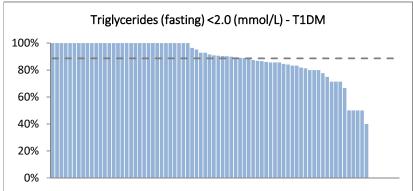


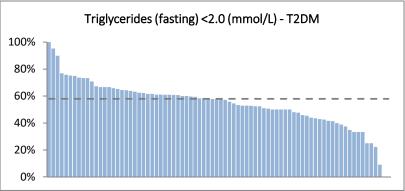


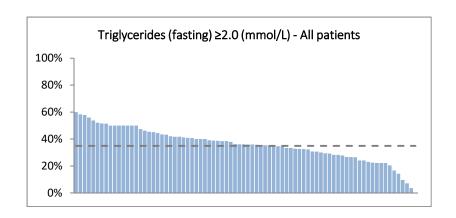
Triglycerides (fasting) by diabetes type

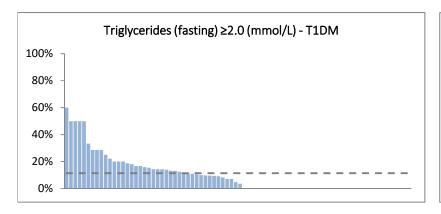
		5.7 cc. iac.	, (103cm/6)	by alabe	tes type			
Dishetes type	<2	.0 (mmol	/L)	≥2	.0 (mmol/	Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%
T1DM	709	88.6	30.2	91	11.4	7.2	800	22.2
T2DM	1572	57.9	67.0	1143	42.1	90.7	2715	75.3
GDM	0	0.0	0.0	2	100.0	0.2	2	0.1
Don't know	16	76.2	0.7	5	23.8	0.4	21	0.6
Other	46	73.0	2.0	17	27.0	1.3	63	1.7
Unstated	4	66.7	0.2	2	33.3	0.2	6	0.2
Total	2347	65.1		1260	34.9		3607	

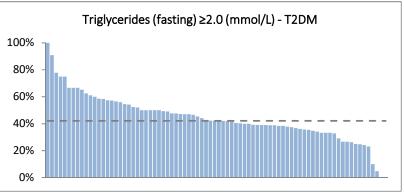






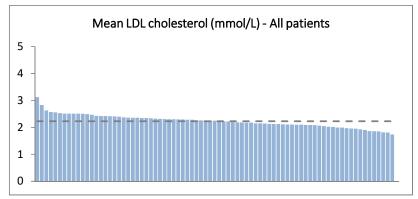


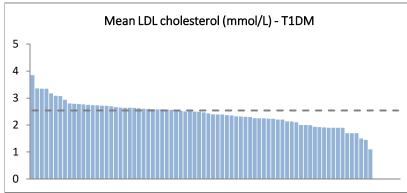


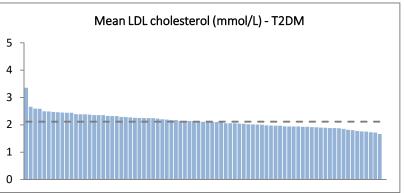


Mean LDL cholesterol by diabetes type

Diabetes type			LDL		
Diabetes type	n	Mean	SD	Min	Max
T1DM	931	2.5	0.9	0.5	7.6
T2DM	2697	2.1	0.9	0.0	6.7
GDM	4	2.5	0.5	1.9	2.9
Don't know	21	2.4	1.0	0.5	4.4
Other	63	2.3	1.0	0.5	5.3
Unstated	5	3.0	1.0	0.5	4.5
Total	3721	2.2	0.9	0.0	7.6

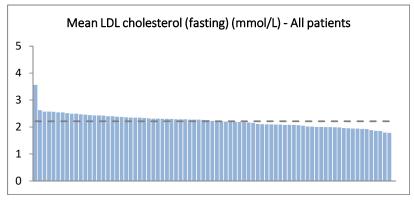


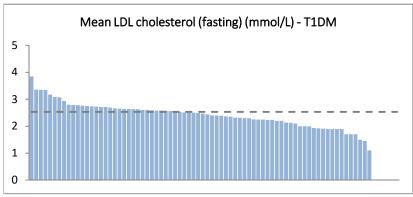


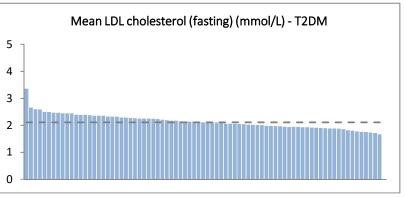


Mean LDL cholesterol (fasting) by diabetes type

Diabetes type			LDL		
Diabetes type	n	Mean	SD	Min	Max
T1DM	744	2.5	0.9	0.5	7.6
T2DM	2445	2.1	0.9	0.0	6.6
GDM	2	2.7	0.2	2.5	2.8
Don't know	18	2.2	0.9	1.1	4.4
Other	57	2.3	1.0	0.3	5.3
Unstated	4	2.9	1.2	1.7	4.5
Total	3270	2.2	0.9	0.0	7.6

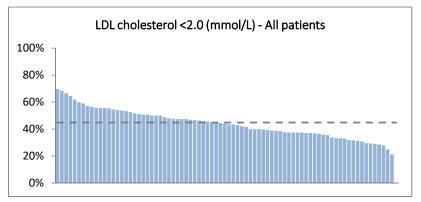


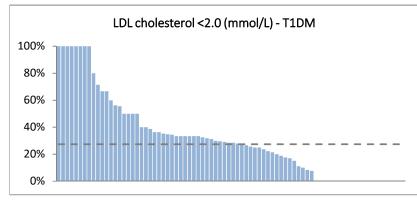


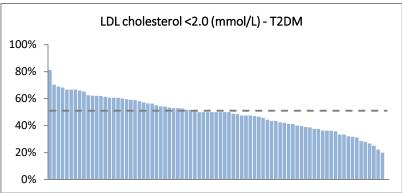


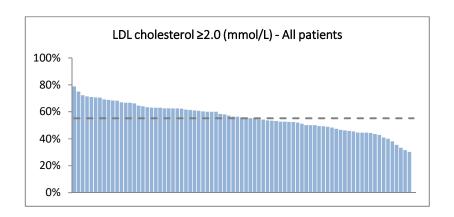
LDL cholesterol by diabetes type

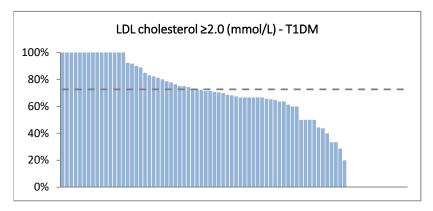
Diabetes type	<2	.0 (mmol	/L)	≥2	.0 (mmol	/L)	Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%	
T1DM	255	27.4	15.3	676	72.6	32.9	931	25.0	
T2DM	1375	51.0	82.4	1322	49.0	64.4	2697	72.5	
GDM	1	25.0	0.1	3	75.0	0.1	4	0.1	
Don't know	9	42.9	0.5	12	57.1	0.6	21	0.6	
Other	27	42.9	1.6	36	57.1	1.8	63	1.7	
Unstated	1	20.0	0.1	4	80.0	0.2	5	0.1	
Total	1668	44.8		2053	55.2		3721		

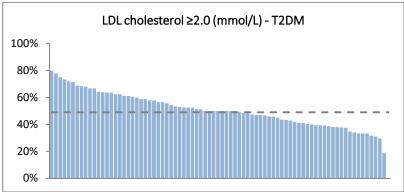






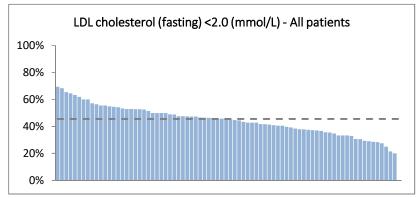


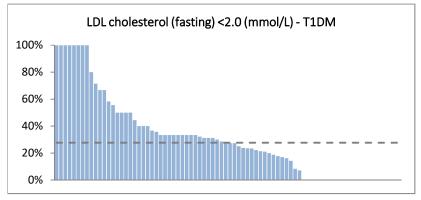


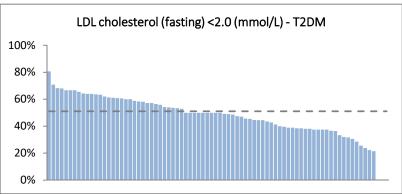


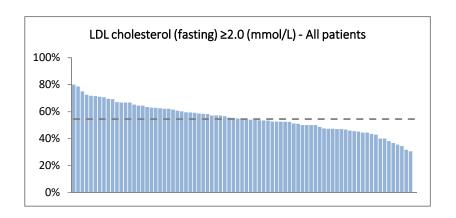
LDL cholesterol (fasting) by diabetes type

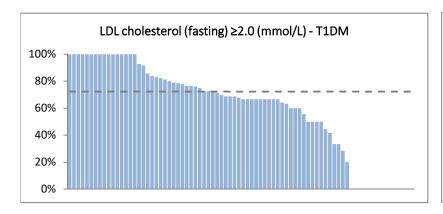
			<i></i>					
<2	.0 (mmol	/L)	≥2	.0 (mmol/	/L)	Total		
n	R%	C%	n	R%	C%	n	%	
206	27.7	13.8	538	72.3	30.2	744	22.8	
1248	51.0	83.9	1197	49.0	67.2	2445	74.8	
0	0.0	0.0	2	100.0	0.1	2	0.1	
9	50.0	0.6	9	50.0	0.5	18	0.6	
24	42.1	1.6	33	57.9	1.9	57	1.7	
1	25.0	0.1	3	75.0	0.2	4	0.1	
1488	45.5		1782	54.5		3270		
	n 206 1248 0 9 24	n R% 206 27.7 1248 51.0 0 0.0 9 50.0 24 42.1 1 25.0	<2.0 (mmol/L)       n     R%     C%       206     27.7     13.8       1248     51.0     83.9       0     0.0     0.0       9     50.0     0.6       24     42.1     1.6       1     25.0     0.1	n         R%         C%         n           206         27.7         13.8         538           1248         51.0         83.9         1197           0         0.0         0.0         2           9         50.0         0.6         9           24         42.1         1.6         33           1         25.0         0.1         3	×2.0 (mmol/L)       ≥2.0 (mmol/mol/mol/mol/mol/mol/mol/mol/mol/mol	<2.0 (mmol/L)         n       R%       C%       n       R%       C%         206       27.7       13.8       538       72.3       30.2         1248       51.0       83.9       1197       49.0       67.2         0       0.0       0.0       2       100.0       0.1         9       50.0       0.6       9       50.0       0.5         24       42.1       1.6       33       57.9       1.9         1       25.0       0.1       3       75.0       0.2	<2.0  (mmol/L)       ≥2.0 (mmol/L)       To         n       R%       C%       n       R%       C%       n         206       27.7       13.8       538       72.3       30.2       744         1248       51.0       83.9       1197       49.0       67.2       2445         0       0.0       0.0       2       100.0       0.1       2         9       50.0       0.6       9       50.0       0.5       18         24       42.1       1.6       33       57.9       1.9       57         1       25.0       0.1       3       75.0       0.2       4	

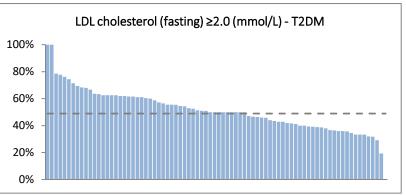








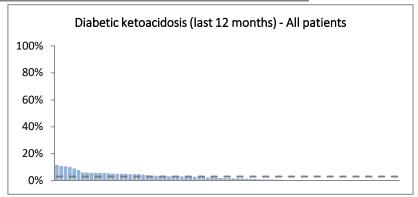


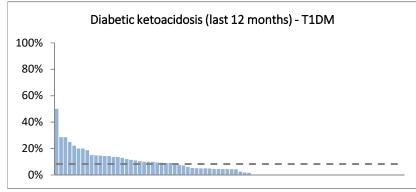


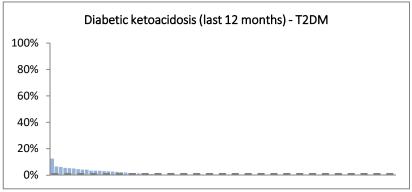
## 6.4 Diabetic Emergencies

Diabetic ketoacidosis (last 12 months) by diabetes type

Diabetes type		Yes		No (	(Not graph	Total		
	n	R%	C%	n	R%	C%	n	%
T1DM	143	8.3	73.7	1580	91.7	25.7	1723	26.9
T2DM	40	1.0	20.6	4006	99.0	65.3	4046	63.1
GDM	1	0.3	0.5	319	99.7	5.2	320	5.0
Don't know	2	2.2	1.0	91	97.8	1.5	93	1.4
Other	8	6.5	4.1	115	93.5	1.9	123	1.9
Unstated	0	0.0	0.0	26	100.0	0.4	26	0.4
Total	194	3.1		6137	96.9		6331	

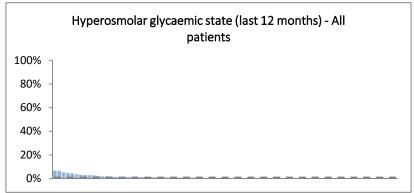


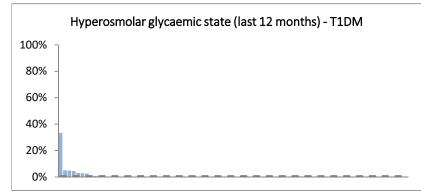


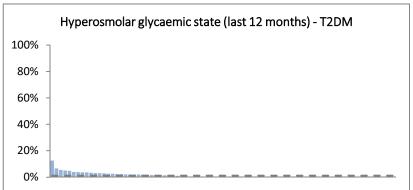


Hyperosmolar hyperglycaemic state (last 12 months) by diabetes type

Diabetes type		Yes		No (	Not graph	Total		
	n	R%	C%	n	R%	C%	n	%
T1DM	12	0.7	19.4	1710	99.3	27.3	1722	26.8
T2DM	47	1.2	75.8	3996	98.8	63.8	4043	63.0
GDM	0	0.0	0.0	320	100.0	5.1	320	5.0
Don't know	0	0.0	0.0	93	100.0	1.5	93	1.4
Other	3	2.4	4.8	120	97.6	1.9	123	1.9
Unstated	0	0.0	0.0	26	100.0	0.4	26	0.4
Total	62	1.0		6265	99.0		6327	

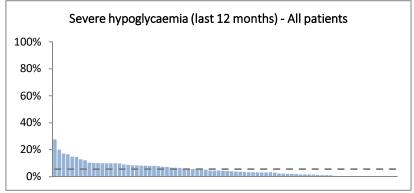


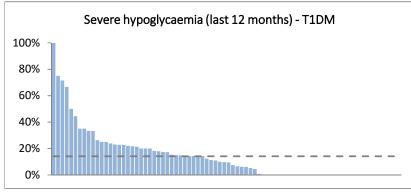


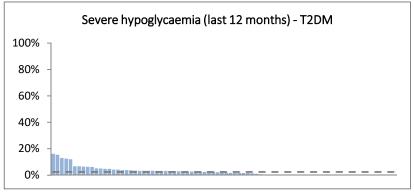


Severe hypoglycaemia (last 12 months) by diabetes type

Diabetes type		Yes		No (	(Not graph	ned)	Total		
••	n	R%	C%	n	R%	C%	n	%	
T1DM	243	14.2	68.5	1474	85.8	24.8	1717	26.8	
T2DM	100	2.5	28.2	3933	97.5	66.0	4033	62.9	
GDM	2	0.6	0.6	317	99.4	5.3	319	5.0	
Don't know	2	2.2	0.6	91	97.8	1.5	93	1.4	
Other	8	6.6	2.3	114	93.4	1.9	122	1.9	
Unstated	0	0.0	0.0	26	100.0	0.4	26	0.4	
Total	355	5.6		5955	94.4		6310		



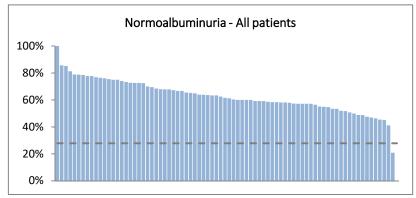


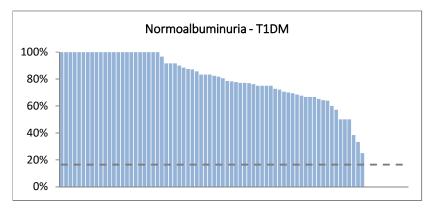


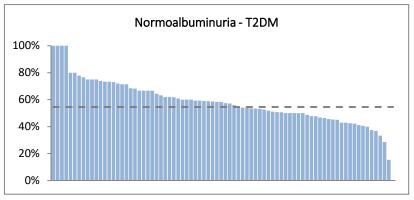
## **6.5 Complications**

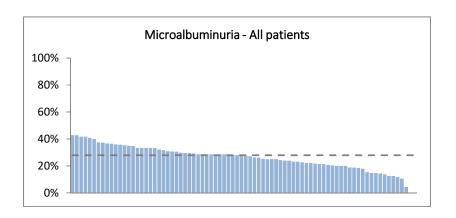
Urinary albumin by diabetes type

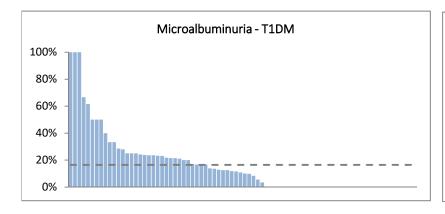
					,						
Norn	Normoalbuminuria			Microalbuminuria			Macroalbuminuria			Total	
n	R%	C%	n	R%	С%	n	R%	С%	n	%	
779	77.3	74.3	166	16.5	38.6	63	6.3	NA	1008	26.8	
1428	54.6	136.1	837	32.0	194.7	351	13.4	NA	2616	69.6	
15	41.7	1.4	17	47.2	4.0	4	11.1	NA	36	1.0	
11	50.0	1.0	8	36.4	1.9	3	13.6	NA	22	0.6	
42	61.8	4.0	18	26.5	4.2	8	11.8	NA	68	1.8	
7	63.6	0.7	1	9.1	0.2	1	9.1	NA	11	0.3	
1049	27.9		430	11.4		0	0.0		3761		
	n 779 1428 15 11 42 7	n R% 779 77.3 1428 54.6 15 41.7 11 50.0 42 61.8 7 63.6	n         R%         C%           779         77.3         74.3           1428         54.6         136.1           15         41.7         1.4           11         50.0         1.0           42         61.8         4.0           7         63.6         0.7	n         R%         C%         n           779         77.3         74.3         166           1428         54.6         136.1         837           15         41.7         1.4         17           11         50.0         1.0         8           42         61.8         4.0         18           7         63.6         0.7         1	n         R%         C%         n         R%           779         77.3         74.3         166         16.5           1428         54.6         136.1         837         32.0           15         41.7         1.4         17         47.2           11         50.0         1.0         8         36.4           42         61.8         4.0         18         26.5           7         63.6         0.7         1         9.1	Normoalbuminuria         Microalbuminuria           n         R%         C%         n         R%         C%           779         77.3         74.3         166         16.5         38.6           1428         54.6         136.1         837         32.0         194.7           15         41.7         1.4         17         47.2         4.0           11         50.0         1.0         8         36.4         1.9           42         61.8         4.0         18         26.5         4.2           7         63.6         0.7         1         9.1         0.2	Normoalbuminuria         Microalbuminuria         Macroalbuminuria         Macroalbuminuria           n         R%         C%         n         R%         C%         n           779         77.3         74.3         166         16.5         38.6         63           1428         54.6         136.1         837         32.0         194.7         351           15         41.7         1.4         17         47.2         4.0         4           11         50.0         1.0         8         36.4         1.9         3           42         61.8         4.0         18         26.5         4.2         8           7         63.6         0.7         1         9.1         0.2         1	Normoalbuminuria         Microalbuminuria         Macroalbumir           n         R%         C%         n         R%         C%         n         R%           779         77.3         74.3         166         16.5         38.6         63         6.3           1428         54.6         136.1         837         32.0         194.7         351         13.4           15         41.7         1.4         17         47.2         4.0         4         11.1           11         50.0         1.0         8         36.4         1.9         3         13.6           42         61.8         4.0         18         26.5         4.2         8         11.8           7         63.6         0.7         1         9.1         0.2         1         9.1	Normoalbuminuria         Microalbuminuria         Macroalbuminuria           n         R%         C%         n         R%         C%           779         77.3         74.3         166         16.5         38.6         63         6.3         NA           1428         54.6         136.1         837         32.0         194.7         351         13.4         NA           15         41.7         1.4         17         47.2         4.0         4         11.1         NA           11         50.0         1.0         8         36.4         1.9         3         13.6         NA           42         61.8         4.0         18         26.5         4.2         8         11.8         NA           7         63.6         0.7         1         9.1         0.2         1         9.1         NA	Normoalbuminuria         Microalbuminuria         Macroalbuminuria         To           n         R%         C%         n         R%         C%         n           779         77.3         74.3         166         16.5         38.6         63         6.3         NA         1008           1428         54.6         136.1         837         32.0         194.7         351         13.4         NA         2616           15         41.7         1.4         17         47.2         4.0         4         11.1         NA         36           11         50.0         1.0         8         36.4         1.9         3         13.6         NA         22           42         61.8         4.0         18         26.5         4.2         8         11.8         NA         68           7         63.6         0.7         1         9.1         0.2         1         9.1         NA         11	

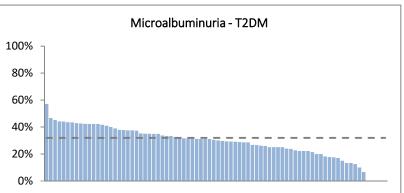


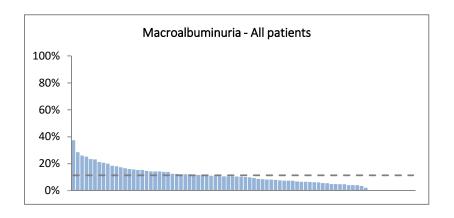


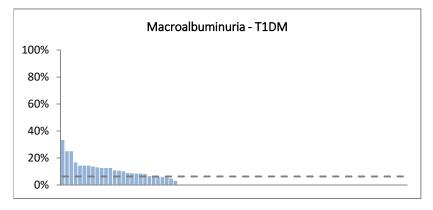


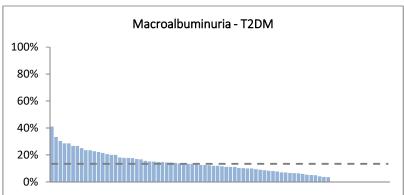






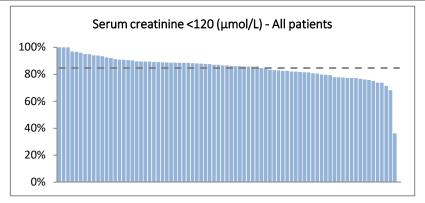


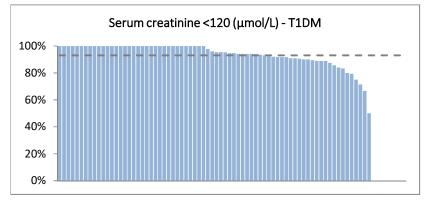


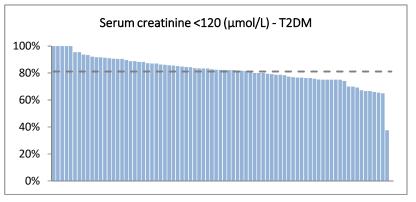


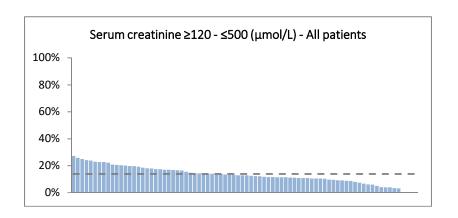
Serum creatinine levels by diabetes type

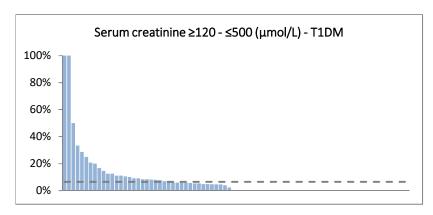
Diabetes type	<1	<120 (µmol/L)			≥120 - ≤500 (µmol/L)			>500 (μmol/L)			Total	
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	%	
T1DM	1284	93.0	28.8	90	6.5	12.3	6	0.4	7.6	1380	26.2	
T2DM	2948	81.1	66.2	616	17.0	84.5	69	1.9	87.3	3633	69.0	
GDM	79	100.0	1.8	0	0.0	0.0	0	0.0	0.0	79	1.5	
Don't know	43	78.2	1.0	11	20.0	1.5	1	1.8	1.3	55	1.0	
Other	88	87.1	2.0	10	9.9	1.4	3	3.0	3.8	101	1.9	
Unstated	14	87.5	0.3	2	12.5	0.3	0	0.0	0.0	16	0.3	
Total	4456	84.7		729	13.8		79	1.5		5264		

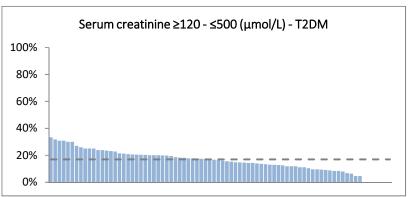


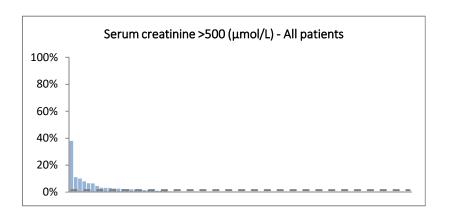


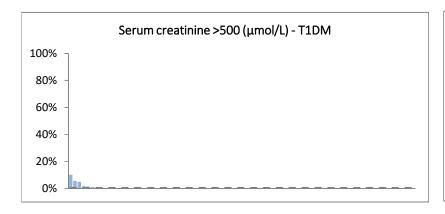


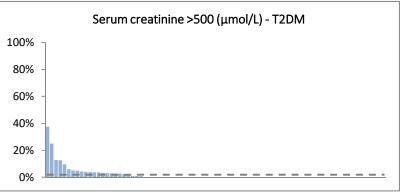






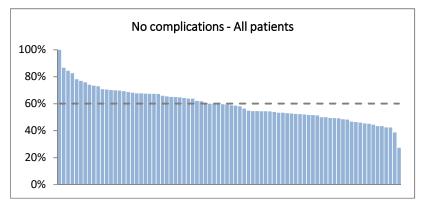


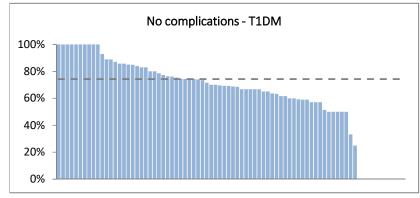


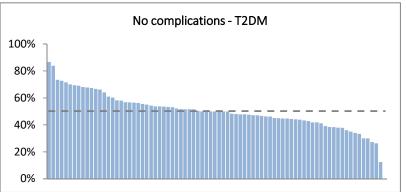


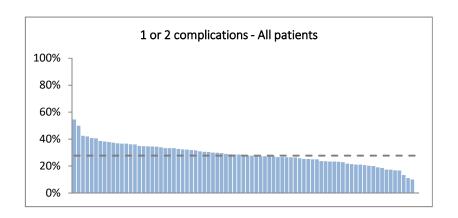
Number of complications by diabetes type

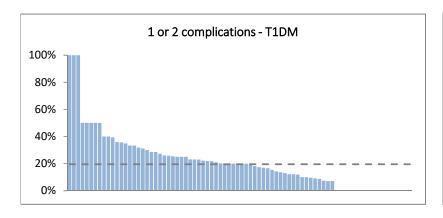
Diabetes type		0			1-2			≥3		То	tal
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	%
T1DM	1284	99.4	8.2	445	0.6	0.1	0	0.0	NA	1729	5.0
T2DM	2081	50.2	53.8	2062	49.8	80.4	NA	NA	NA	4143	64.4
GDM	318	99.4	8.2	2	0.6	0.1	0	0.0	NA	320	5.0
Don't know	83	89.2	2.1	10	10.8	0.4	0	0.0	NA	93	1.4
Other	86	68.8	2.2	39	31.2	1.5	0	0.0	NA	125	1.9
Unstated	18	69.2	0.5	8	30.8	0.3	0	0.0	NA	26	0.4
Total	3870	60.1		2566	39.9		0	0.0		6436	

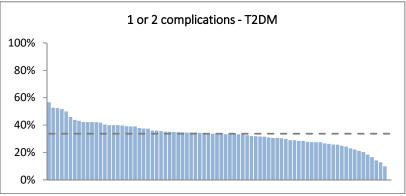


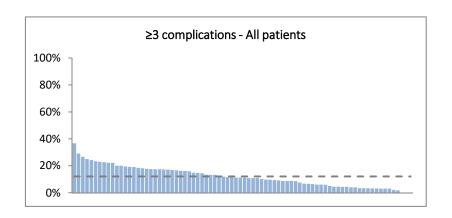


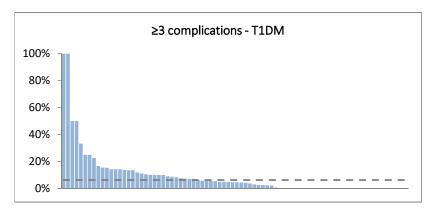


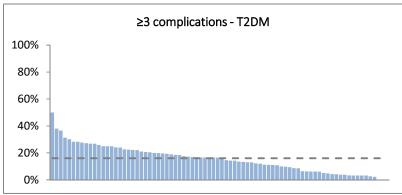








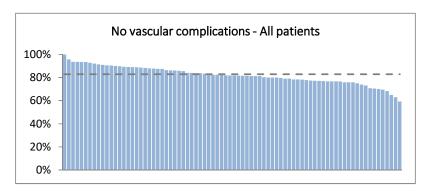


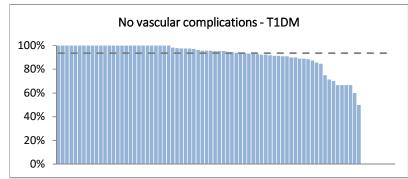


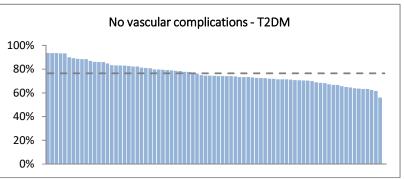
Number of vascular complications\* by diabetes type

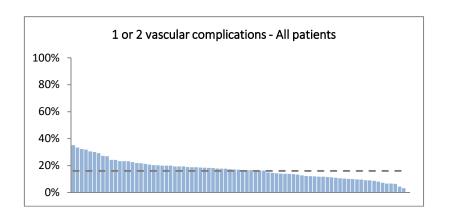
Dishetes tune		0			1-2			≥3			Total	
Diabetes type	n	R%	C%	n	R%	С%	n	R%	С%	n	%	
T1DM	1617	93.5	30.3	107	6.2	10.3	5	0.3	7.1	1729	26.9	
T2DM	3167	76.4	59.4	911	22.0	88.1	65	1.6	92.9	4143	64.4	
GDM	319	99.7	6.0	1	0.3	0.1	0	0.0	0.0	320	5.0	
Don't know	89	95.7	1.7	4	4.3	0.4	0	0.0	0.0	93	1.4	
Other	116	92.8	2.2	9	7.2	0.9	0	0.0	0.0	125	1.9	
Unstated	24	92.3	0.5	2	7.7	0.2	0	0.0	0.0	26	0.4	
Total	5332	82.8		1034	16.1		70	1.1		6436		

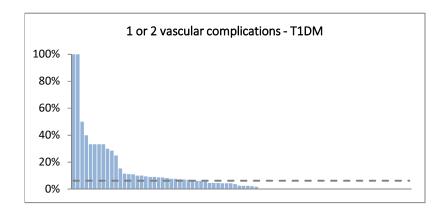
<sup>\*</sup>possible complications include macrovascular/microvascular complications. Occurrence of a complication, both in the past 12 months and previously, is counted only once.

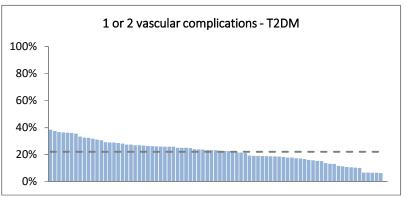


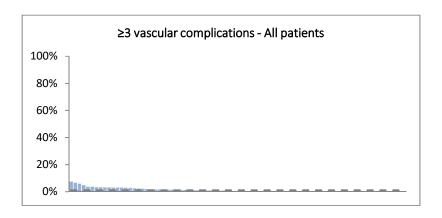


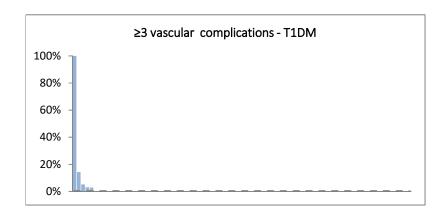


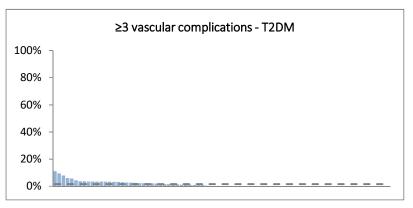








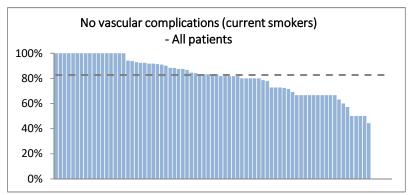


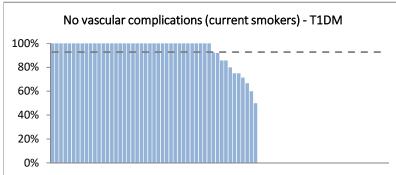


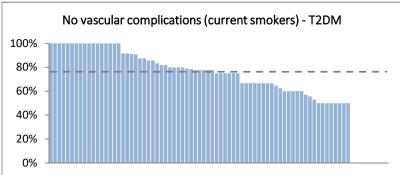
Number of vascular complications\* (current smokers) by diabetes type

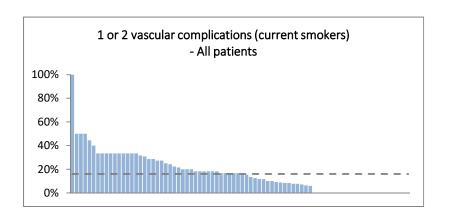
Diabetes type	0				1-2			≥3			Total	
	n	R%	C%	n	R%	C%	n	R%	C%	n	%	
T1DM	217	92.7	35.9	16	6.8	13.7	1	0.4	11.1	234	32.1	
T2DM	351	76.3	58.1	101	22.0	86.3	8	1.7	88.9	460	63.0	
GDM	12	100.0	2.0	0	0.0	0.0	0	0.0	0.0	12	1.6	
Don't know	3	100.0	0.5	0	0.0	0.0	0	0.0	0.0	3	0.4	
Other	20	100.0	3.3	0	0.0	0.0	0	0.0	0.0	20	2.7	
Unstated	1	100.0	0.2	0	0.0	0.0	0	0.0	0.0	1	0.1	
Total	604	82.7		117	16.0		9	1.2		730		

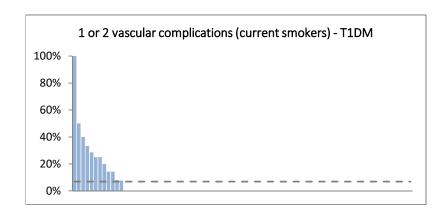
<sup>\*</sup>possible complications include macrovascular/microvascular complications. Occurrence of a complication, both in the past 12 months and previously, is counted only once.

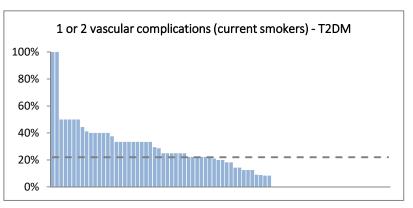


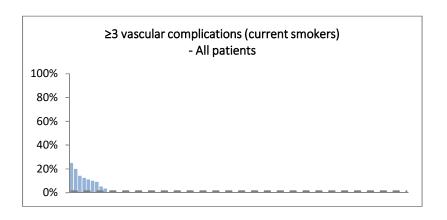


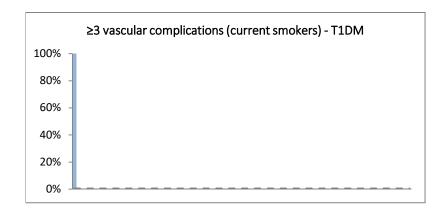


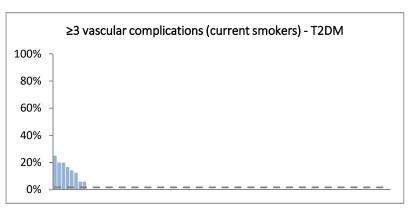








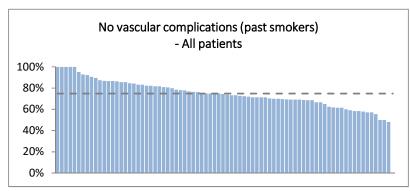


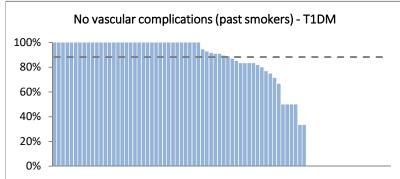


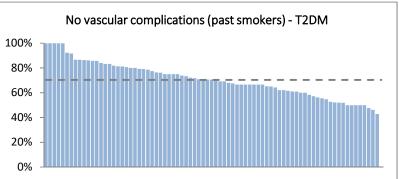
Number of vascular complications\* (past smokers) by diabetes type

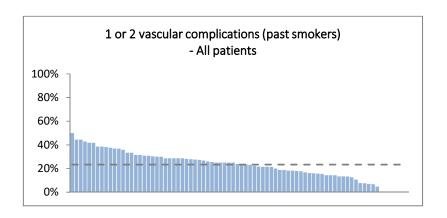
		(Fact and a 1										
Diabetes type		0			1-2			≥3			Total	
	n	R%	C%	n	R%	C%	n	R%	С%	n	%	
T1DM	324	88.3	23.0	40	10.9	9.1	3	0.8	8.6	367	19.5	
T2DM	1009	70.4	71.5	393	27.4	89.3	32	2.2	91.4	1434	76.0	
GDM	38	100.0	2.7	0	0.0	0.0	0	0.0	0.0	38	2.0	
Don't know	3	100.0	0.2	NA	NA	NA	0	0.0	0.0	3	0.2	
Other	31	83.8	2.2	6	16.2	1.4	0	0.0	0.0	37	2.0	
Unstated	6	85.7	0.4	1	14.3	0.2	0	0.0	0.0	7	0.4	
Total	1411	74.8		440	23.3		35	1.9		1886		

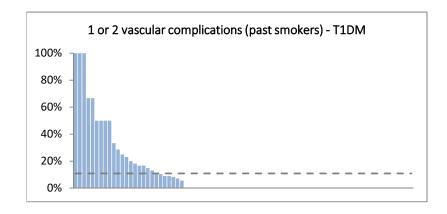
<sup>\*</sup>possible complications include macrovascular/microvascular complications. Occurrence of a complication, both in the past 12 months and previously, is counted only once.

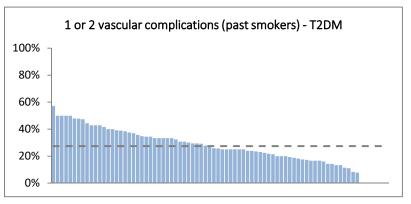


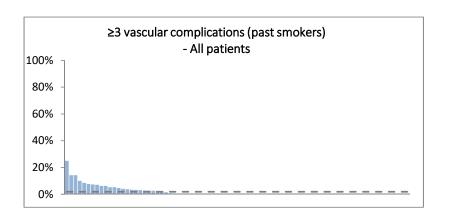


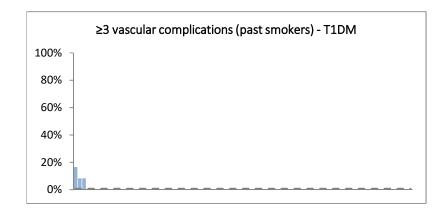


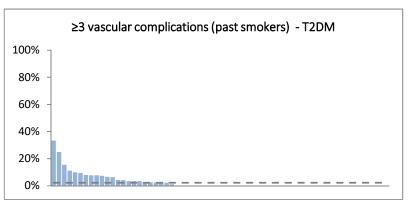








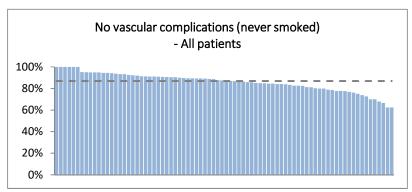


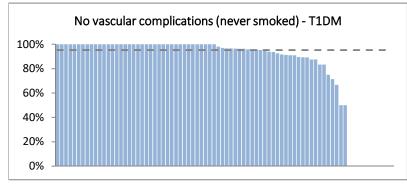


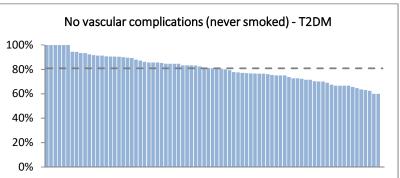
Number of vascular complications\* (never smoked) by diabetes type

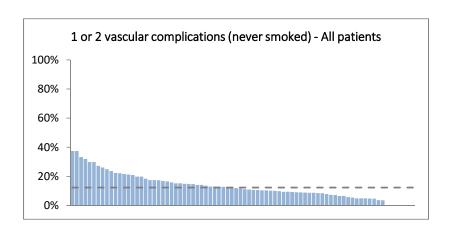
		(										
Diabetes type		0			1-2			≥3			Total	
	n	R%	C%	n	R%	С%	n	R%	С%	n	%	
T1DM	1003	95.3	32.8	49	4.7	11.2	1	0.1	4.0	1053	29.9	
T2DM	1707	80.9	55.8	380	18.0	87.2	24	1.1	96.0	2111	60.0	
GDM	263	99.6	8.6	1	0.4	0.2	0	0.0	0.0	264	7.5	
Don't know	14	87.5	0.5	2	12.5	0.5	0	0.0	0.0	16	0.5	
Other	60	95.2	2.0	3	4.8	0.7	0	0.0	0.0	63	1.8	
Unstated	13	92.9	0.4	1	7.1	0.2	0	0.0	0.0	14	0.4	
Total	3060	86.9		436	12.4		25	0.7		3521		

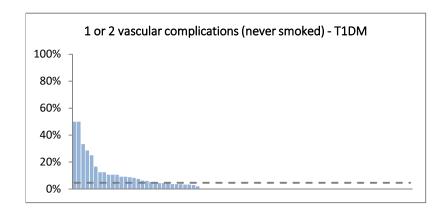
<sup>\*</sup>possible complications include macrovascular/microvascular complications. Occurrence of a complication, both in the past 12 months and previously, is counted only once.

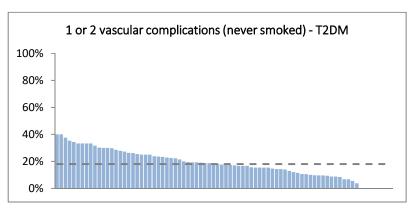


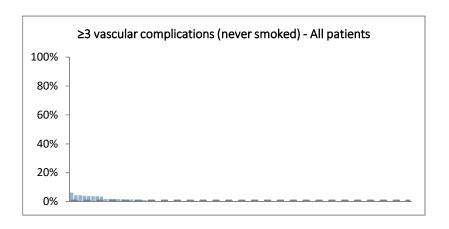


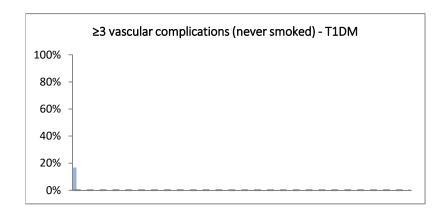


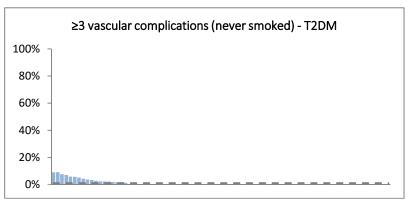








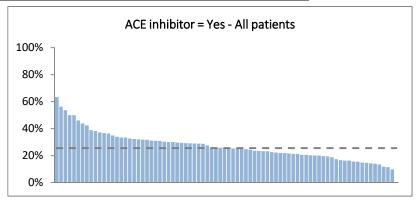


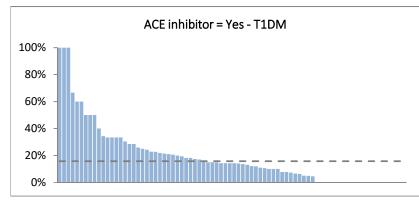


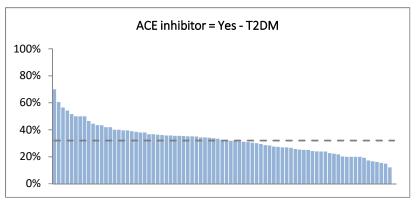
## 6.6 Medications

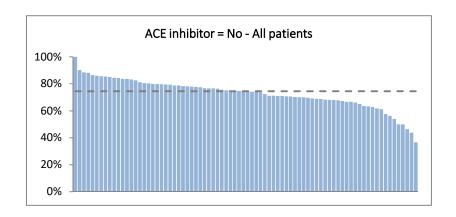
ACE inhibitor use by diabetes type

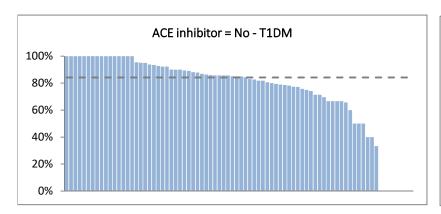
Diebeteetune		Yes			No	Total		
Diabetes type	n	R%	C%	n	R%	С%	n	%
T1DM	273	15.8	16.6	1456	84.2	30.4	1729	26.9
T2DM	1326	32.0	80.8	2817	68.0	58.8	4143	64.4
GDM	0	0.0	0.0	320	100.0	6.7	320	5.0
Don't know	11	11.8	0.7	82	88.2	1.7	93	1.4
Other	29	23.2	1.8	96	76.8	2.0	125	1.9
Unstated	3	11.5	0.2	23	88.5	0.5	26	0.4
Total	1642	25.5		4794	74.5		6436	

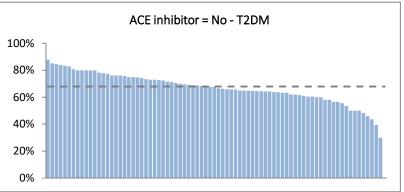






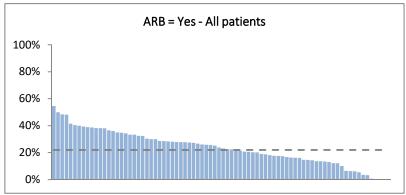


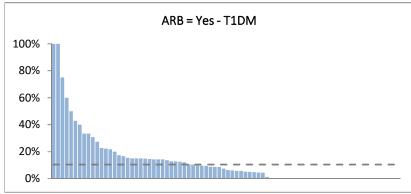


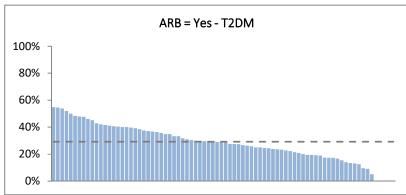


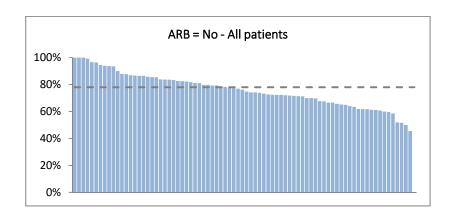
ARB use by diabetes type

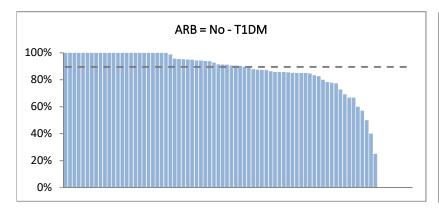
Diabatas tuna		Yes			No	Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%
T1DM	180	10.4	12.7	1546	89.6	30.8	1726	26.8
T2DM	1210	29.2	85.5	2933	70.8	58.5	4143	64.4
GDM	0	0.0	0.0	320	100.0	6.4	320	5.0
Don't know	9	9.7	0.6	84	90.3	1.7	93	1.4
Other	13	10.4	0.9	112	89.6	2.2	125	1.9
Unstated	4	15.4	0.3	22	84.6	0.4	26	0.4
Total	1416	22.0		5017	78.0		6433	

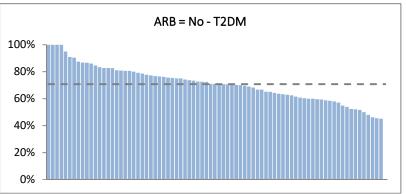






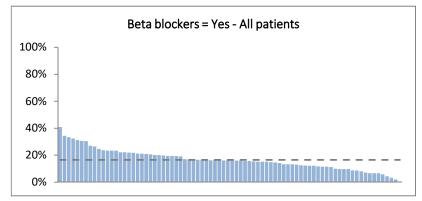


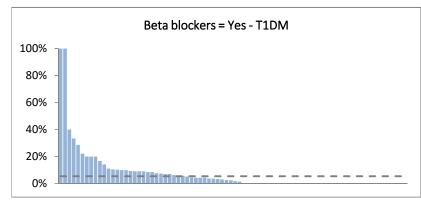


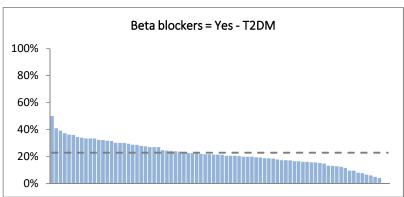


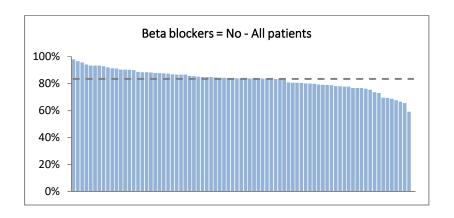
Beta blocker use by diabetes type

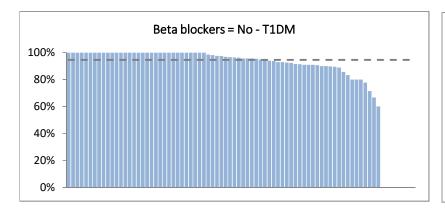
Diabetes type		Yes			No		Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%	
T1DM	93	5.4	8.7	1633	94.6	30.4	1726	26.8	
T2DM	947	22.9	89.0	3196	77.1	59.5	4143	64.4	
GDM	6	1.9	0.6	314	98.1	5.8	320	5.0	
Don't know	3	3.2	0.3	90	96.8	1.7	93	1.4	
Other	12	9.6	1.1	113	90.4	2.1	125	1.9	
Unstated	3	11.5	0.3	23	88.5	0.4	26	0.4	
Total	1064	16.5		5369	83.5		6433		

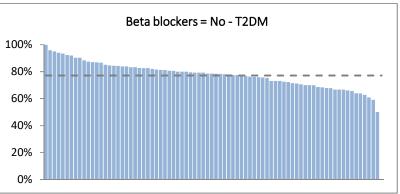






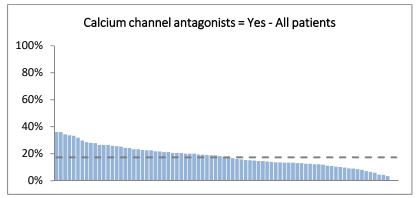


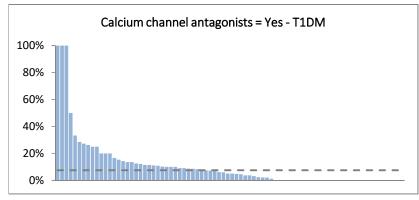


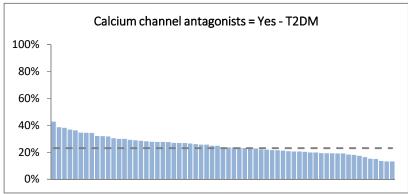


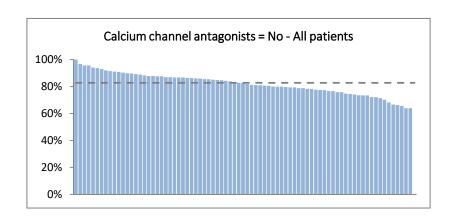
Calcium channel antagonist use by diabetes type

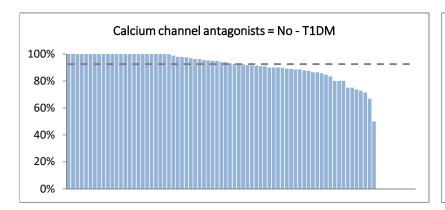
Diabetes type		Yes			No		Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%	
T1DM	129	7.5	11.6	1597	92.5	30.0	1726	26.8	
T2DM	958	23.1	86.2	3185	76.9	59.9	4143	64.4	
GDM	0	0.0	0.0	320	100.0	6.0	320	5.0	
Don't know	4	4.3	0.4	89	95.7	1.7	93	1.4	
Other	20	16.0	1.8	105	84.0	2.0	125	1.9	
Unstated	1	3.8	0.1	25	96.2	0.5	26	0.4	
Total	1112	17.3		5321	82.7		6433	·	

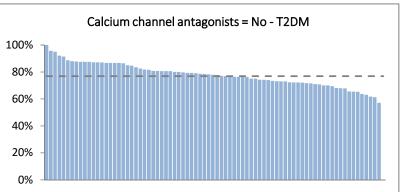






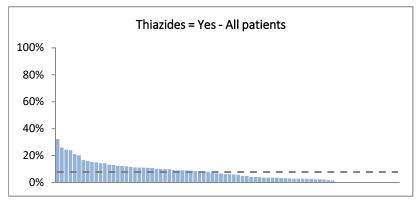


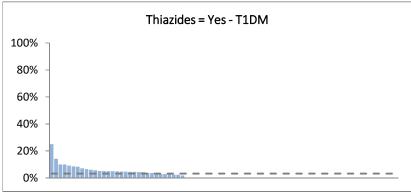


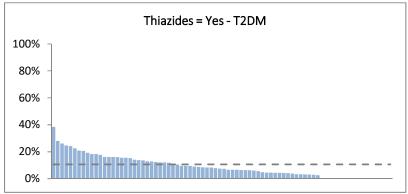


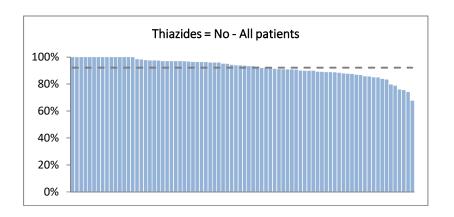
Thiazide use by diabetes type

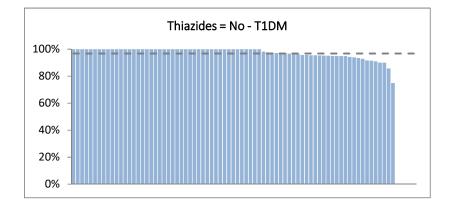
				/ I' -				
	Yes			No		Total		
n	R%	C%	n	R%	C%	n	%	
55	3.2	10.9	1674	96.8	28.2	1729	26.9	
440	10.6	87.3	3703	89.4	62.4	4143	64.4	
0	0.0	0.0	320	100.0	5.4	320	5.0	
2	2.2	0.4	91	97.8	1.5	93	1.4	
5	4.0	1.0	120	96.0	2.0	125	1.9	
2	7.7	0.4	24	92.3	0.4	26	0.4	
504	7.8		5932	92.2		6436		
	55 440 0 2 5 2	n R% 55 3.2 440 10.6 0 0.0 2 2.2 5 4.0 2 7.7	n         R%         C%           55         3.2         10.9           440         10.6         87.3           0         0.0         0.0           2         2.2         0.4           5         4.0         1.0           2         7.7         0.4	Yes         n         R%         C%         n           55         3.2         10.9         1674           440         10.6         87.3         3703           0         0.0         0.0         320           2         2.2         0.4         91           5         4.0         1.0         120           2         7.7         0.4         24	n         R%         C%         n         R%           55         3.2         10.9         1674         96.8           440         10.6         87.3         3703         89.4           0         0.0         0.0         320         100.0           2         2.2         0.4         91         97.8           5         4.0         1.0         120         96.0           2         7.7         0.4         24         92.3	Yes         No           n         R%         C%         n         R%         C%           55         3.2         10.9         1674         96.8         28.2           440         10.6         87.3         3703         89.4         62.4           0         0.0         0.0         320         100.0         5.4           2         2.2         0.4         91         97.8         1.5           5         4.0         1.0         120         96.0         2.0           2         7.7         0.4         24         92.3         0.4	Yes         No         To           n         R%         C%         n         R%         C%         n           55         3.2         10.9         1674         96.8         28.2         1729           440         10.6         87.3         3703         89.4         62.4         4143           0         0.0         0.0         320         100.0         5.4         320           2         2.2         0.4         91         97.8         1.5         93           5         4.0         1.0         120         96.0         2.0         125           2         7.7         0.4         24         92.3         0.4         26	

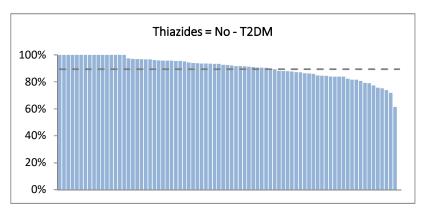






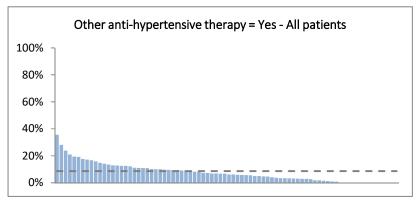


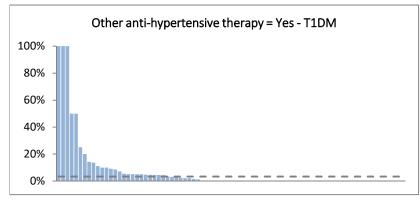


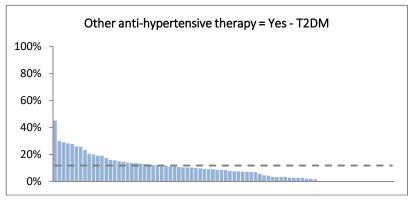


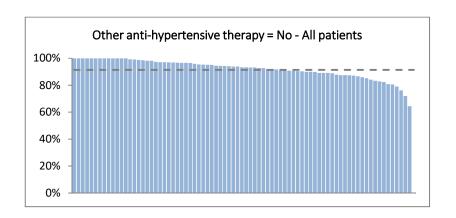
Other anti-hypertensive therapy by diabetes type

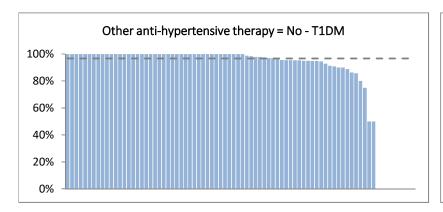
	, , ,				71			
	Yes			No		Total		
n	R%	C%	n	R%	C%	n	%	
57	3.3	10.3	1669	96.7	28.4	1726	26.8	
488	11.8	87.9	3654	88.2	62.2	4142	64.4	
2	0.6	0.4	318	99.4	5.4	320	5.0	
3	3.2	0.5	90	96.8	1.5	93	1.4	
4	3.2	0.7	121	96.8	2.1	125	1.9	
1	3.8	0.2	25	96.2	0.4	26	0.4	
555	8.6		5877	91.4		6432		
	57 488 2 3 4	Yes           n         R%           57         3.3           488         11.8           2         0.6           3         3.2           4         3.2           1         3.8	Yes           n         R%         C%           57         3.3         10.3           488         11.8         87.9           2         0.6         0.4           3         3.2         0.5           4         3.2         0.7           1         3.8         0.2	Yes         n         R%         C%         n           57         3.3         10.3         1669           488         11.8         87.9         3654           2         0.6         0.4         318           3         3.2         0.5         90           4         3.2         0.7         121           1         3.8         0.2         25	Yes         No           n         R%         C%         n         R%           57         3.3         10.3         1669         96.7           488         11.8         87.9         3654         88.2           2         0.6         0.4         318         99.4           3         3.2         0.5         90         96.8           4         3.2         0.7         121         96.8           1         3.8         0.2         25         96.2	Yes         No           n         R%         C%         n         R%         C%           57         3.3         10.3         1669         96.7         28.4           488         11.8         87.9         3654         88.2         62.2           2         0.6         0.4         318         99.4         5.4           3         3.2         0.5         90         96.8         1.5           4         3.2         0.7         121         96.8         2.1           1         3.8         0.2         25         96.2         0.4	Yes         No         To           n         R%         C%         n         R%         C%         n           57         3.3         10.3         1669         96.7         28.4         1726           488         11.8         87.9         3654         88.2         62.2         4142           2         0.6         0.4         318         99.4         5.4         320           3         3.2         0.5         90         96.8         1.5         93           4         3.2         0.7         121         96.8         2.1         125           1         3.8         0.2         25         96.2         0.4         26	

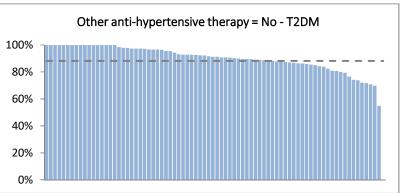






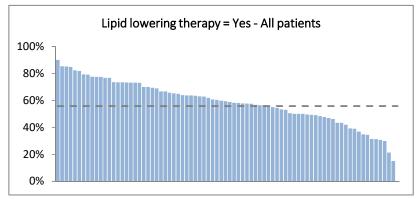


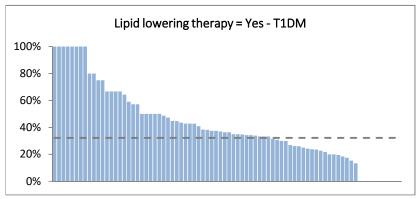


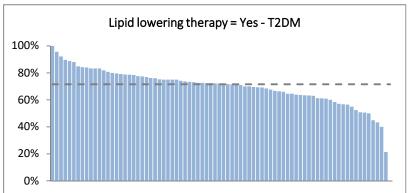


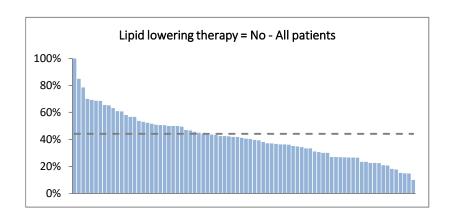
Lipid lowering therapy by diabetes type

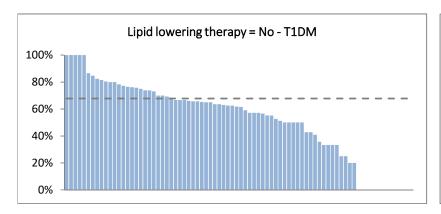
District		Yes		, . ,	No		Total		
Diabetes type	n	R%	C%	n	R%	C%	n	%	
T1DM	555	32.2	15.5	1168	67.8	41.2	1723	26.8	
T2DM	2955	71.5	82.4	1178	28.5	41.6	4133	64.4	
GDM	2	0.6	0.1	318	99.4	11.2	320	5.0	
Don't know	16	17.2	0.4	77	82.8	2.7	93	1.4	
Other	46	36.8	1.3	79	63.2	2.8	125	1.9	
Unstated	11	42.3	0.3	15	57.7	0.5	26	0.4	
Total	3585	55.8		2835	44.2		6420		

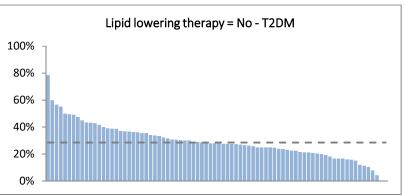








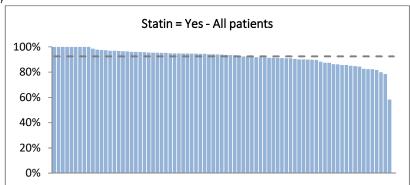


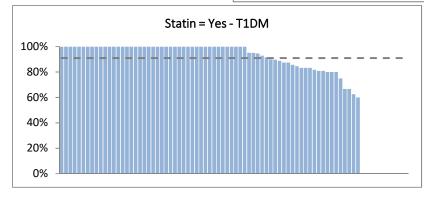


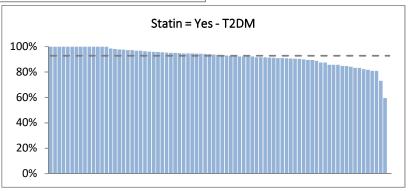
Statin\* use by diabetes type

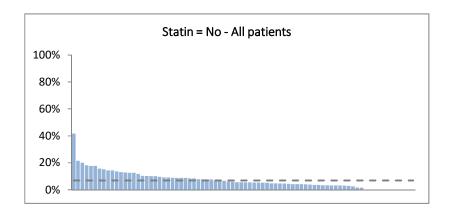
Diabetes type		Yes		No				ntraindica Iot graphe	То	tal	
	n	R%	С%	n	R%	C%	n	R%	C%	n	%
T1DM	504	91.0	15.2	46	8.3	18.6	4	0.7	17.4	554	15.5
T2DM	2740	92.8	82.8	194	6.6	78.5	17	0.6	73.9	2951	82.4
GDM	1	50.0	0.0	1	50.0	0.4	0	0.0	0.0	2	0.1
Don't know	16	100.0	0.5	0	0.0	0.0	0	0.0	0.0	16	0.4
Other	39	86.7	1.2	6	13.3	2.4	1	2.2	4.3	45	1.3
Unstated	10	100.0	0.3	0	0.0	0.0	1	10.0	4.3	10	0.3
Total	3310	92.5		247	6.9		23	0.6		3580	

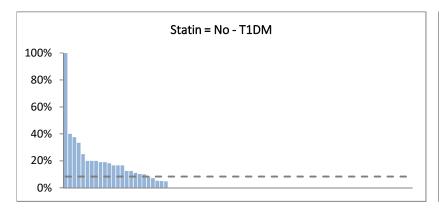
<sup>\*</sup>of patients who take lipid lowering therapy

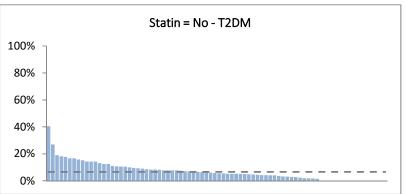








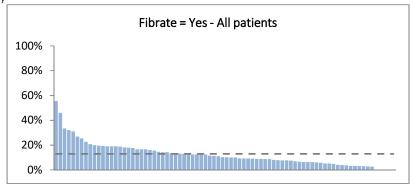


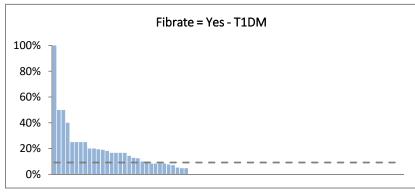


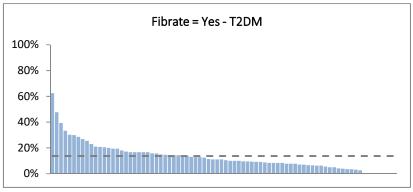
Fibrate\* use by diabetes type

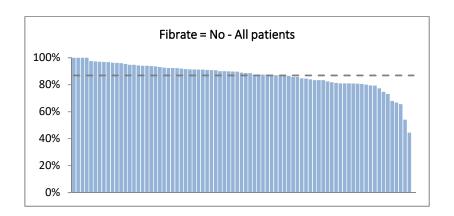
Diabetes type		Yes		No				ntraindica Iot graphe	То	Total	
	n	R%	C%	n	R%	С%	n	R%	С%	n	%
T1DM	50	9.2	11.0	493	90.6	16.1	1	0.2	11.1	544	15.4
T2DM	399	13.7	87.7	2507	86.1	81.8	7	0.2	77.8	2913	82.5
GDM	0	0.0	0.0	2	100.0	0.1	0	0.0	0.0	2	0.1
Don't know	0	0.0	0.0	16	100.0	0.5	0	0.0	0.0	16	0.5
Other	6	13.3	1.3	38	84.4	1.2	1	2.2	11.1	45	1.3
Unstated	0	0.0	0.0	10	100.0	0.3	0	0.0	0.0	10	0.3
Total	455	12.9		3066	86.9		9	0.3		3530	

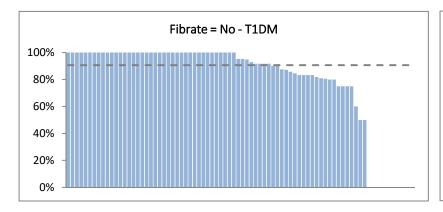
\*of patients who take lipid lowering therapy

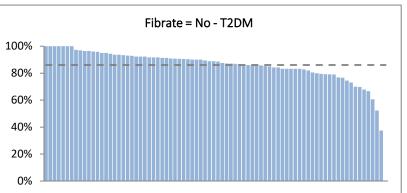








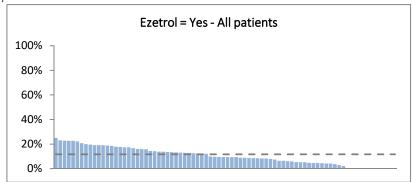


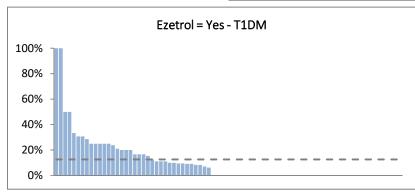


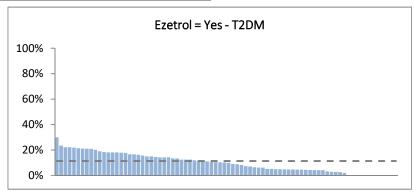
Ezetrol\* use by diabetes type

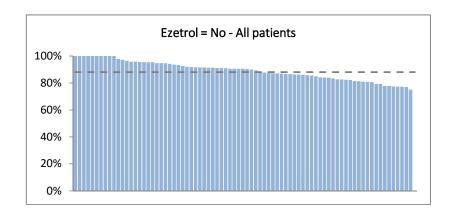
Diabetes type		Yes		No				ntraindica Iot graphe	То	Total	
	n	R%	C%	n	R%	С%	n	R%	С%	n	%
T1DM	69	12.7	16.7	474	87.0	15.3	2	0.4	28.6	545	15.4
T2DM	332	11.4	80.4	2572	88.4	82.8	4	0.1	57.1	2908	82.4
GDM	0	0.0	0.0	2	100.0	0.1	0	0.0	0.0	2	0.1
Don't know	3	18.8	0.7	13	81.3	0.4	0	0.0	0.0	16	0.5
Other	6	13.3	1.5	38	84.4	1.2	1	2.2	14.3	45	1.3
Unstated	3	27.3	0.7	8	72.7	0.3	0	0.0	0.0	11	0.3
Total	413	11.7		3107	88.1		7	0.2		3527	

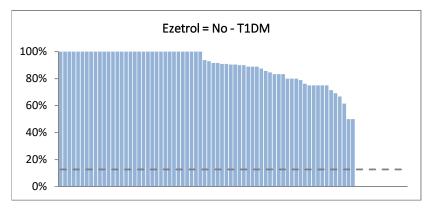
<sup>\*</sup>of patients who take lipid lowering therapy

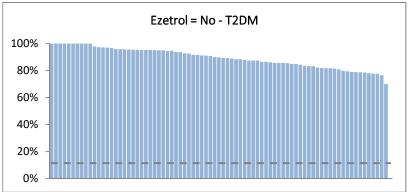








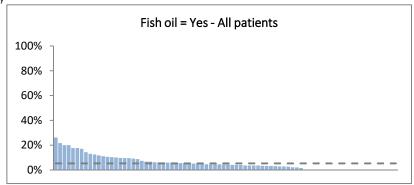


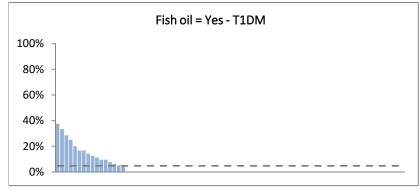


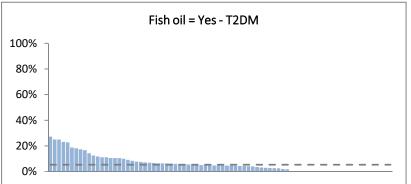
Fish oil\* use by diabetes type

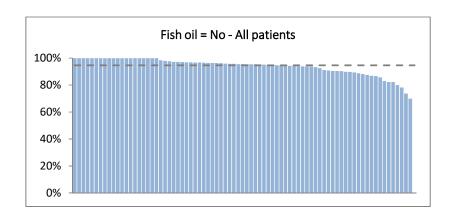
Diabetes type		Yes		No				ntraindica Iot graphe	То	tal	
	n	R%	C%	n	R%	С%	n	R%	C%	n	%
T1DM	26	4.8	14.1	518	95.2	15.5	0	0.0	0.0	544	15.4
T2DM	156	5.4	84.3	2747	94.6	82.4	2	0.1	66.7	2905	82.3
GDM	1	50.0	0.5	1	50.0	0.0	0	0.0	0.0	2	0.1
Don't know	1	6.3	0.5	15	93.8	0.4	0	0.0	0.0	16	0.5
Other	1	2.2	0.5	43	95.6	1.3	1	2.2	33.3	45	1.3
Unstated	0	0.0	0.0	10	100.0	0.3	0	0.0	0.0	10	0.3
Total	185	5.3		3334	94.7		3	0.1		3522	

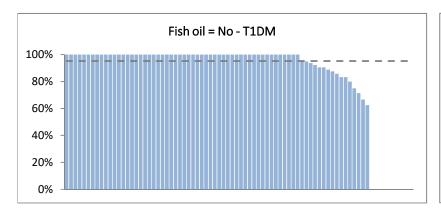
\*of patients who take lipid lowering therapy

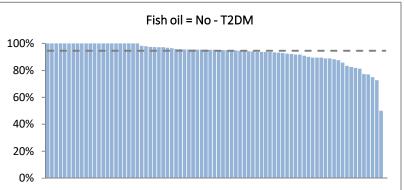






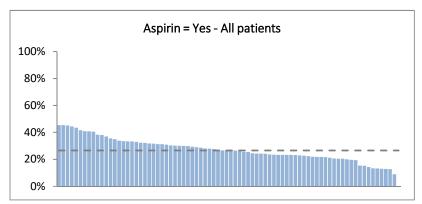


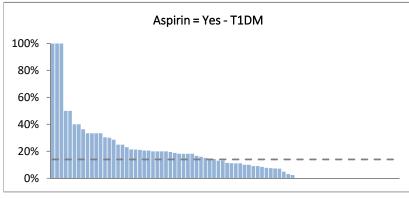


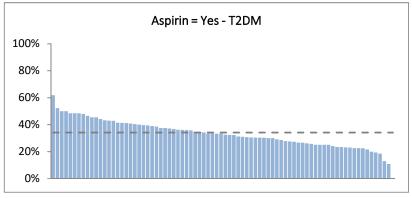


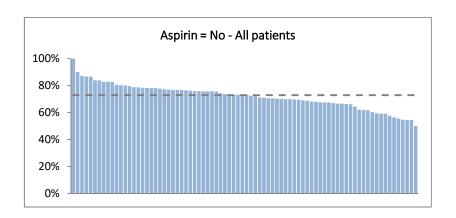
Aspirin use by diabetes type

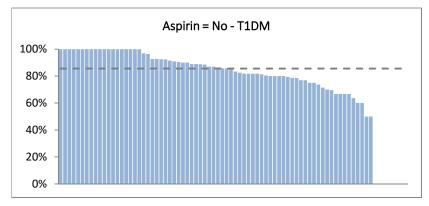
	Yes			No		Contraindicated			Total	
n	R%	C%	n	R%	C%	n	R%	C%	n	%
242	14.0	14.2	1477	85.6	31.6	7	0.4	18.9	1726	26.9
1411	34.1	82.7	2692	65.2	57.5	29	0.7	78.4	4132	64.3
17	5.3	1.0	303	94.7	6.5	0	0.0	0.0	320	5.0
7	7.5	0.4	86	92.5	1.8	0	0.0	0.0	93	1.4
23	18.4	1.3	101	80.8	2.2	1	0.8	2.7	125	1.9
6	23.1	0.4	20	76.9	0.4	0	0.0	0.0	26	0.4
1706	26.6		4679	72.9		37	0.6		6422	
	242 1411 17 7 23 6	n R% 242 14.0 1411 34.1 17 5.3 7 7.5 23 18.4 6 23.1	n         R%         C%           242         14.0         14.2           1411         34.1         82.7           17         5.3         1.0           7         7.5         0.4           23         18.4         1.3           6         23.1         0.4	n         R%         C%         n           242         14.0         14.2         1477           1411         34.1         82.7         2692           17         5.3         1.0         303           7         7.5         0.4         86           23         18.4         1.3         101           6         23.1         0.4         20	n         R%         C%         n         R%           242         14.0         14.2         1477         85.6           1411         34.1         82.7         2692         65.2           17         5.3         1.0         303         94.7           7         7.5         0.4         86         92.5           23         18.4         1.3         101         80.8           6         23.1         0.4         20         76.9	Yes         No           n         R%         C%         n         R%         C%           242         14.0         14.2         1477         85.6         31.6           1411         34.1         82.7         2692         65.2         57.5           17         5.3         1.0         303         94.7         6.5           7         7.5         0.4         86         92.5         1.8           23         18.4         1.3         101         80.8         2.2           6         23.1         0.4         20         76.9         0.4	Yes         No         Cor           n         R%         C%         n         R%         C%         n           242         14.0         14.2         1477         85.6         31.6         7           1411         34.1         82.7         2692         65.2         57.5         29           17         5.3         1.0         303         94.7         6.5         0           7         7.5         0.4         86         92.5         1.8         0           23         18.4         1.3         101         80.8         2.2         1           6         23.1         0.4         20         76.9         0.4         0	Yes         No         Contraindicate           n         R%         C%         n         R%         C%         n         R%           242         14.0         14.2         1477         85.6         31.6         7         0.4           1411         34.1         82.7         2692         65.2         57.5         29         0.7           17         5.3         1.0         303         94.7         6.5         0         0.0           7         7.5         0.4         86         92.5         1.8         0         0.0           23         18.4         1.3         101         80.8         2.2         1         0.8           6         23.1         0.4         20         76.9         0.4         0         0.0	Yes         No         Contraindicated           n         R%         C%         n         R%         C%           242         14.0         14.2         1477         85.6         31.6         7         0.4         18.9           1411         34.1         82.7         2692         65.2         57.5         29         0.7         78.4           17         5.3         1.0         303         94.7         6.5         0         0.0         0.0           7         7.5         0.4         86         92.5         1.8         0         0.0         0.0           23         18.4         1.3         101         80.8         2.2         1         0.8         2.7           6         23.1         0.4         20         76.9         0.4         0         0.0         0.0	Yes         No         Contraindicated         To           n         R%         C%         n         R%         C%         n           242         14.0         14.2         1477         85.6         31.6         7         0.4         18.9         1726           1411         34.1         82.7         2692         65.2         57.5         29         0.7         78.4         4132           17         5.3         1.0         303         94.7         6.5         0         0.0         0.0         320           7         7.5         0.4         86         92.5         1.8         0         0.0         0.0         93           23         18.4         1.3         101         80.8         2.2         1         0.8         2.7         125           6         23.1         0.4         20         76.9         0.4         0         0.0         0.0         26

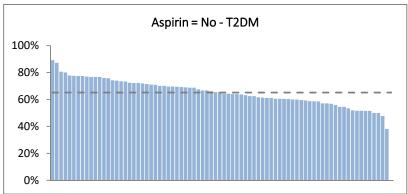


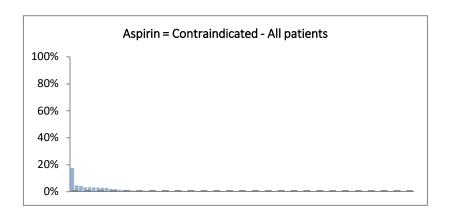


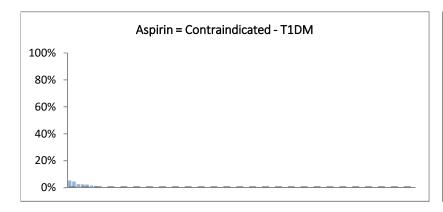


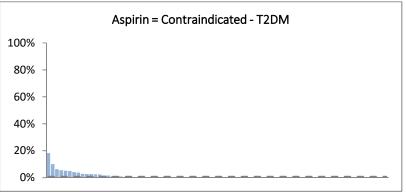






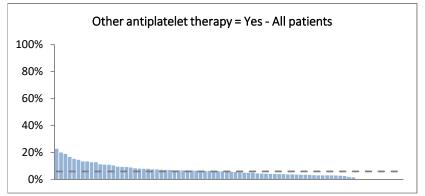


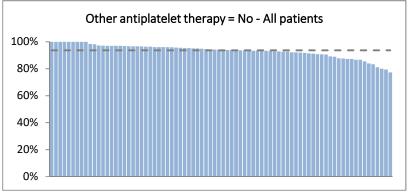




Other antiplatelet therapy by diabetes type

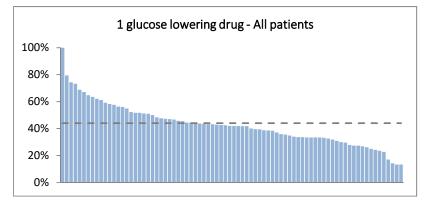
Diabetes type		Yes		No				ntraindica ot graphe	То	Total	
	n	R%	С%	n	R%	C%	n	R%	C%	n	%
T1DM	37	2.1	9.7	1682	97.6	28.0	5	0.3	23.8	1724	26.9
T2DM	341	8.3	89.3	3771	91.4	62.7	15	0.4	71.4	4127	64.3
GDM	0	0.0	0.0	320	100.0	5.3	0	0.0	0.0	320	5.0
Don't know	4	4.3	1.0	89	95.7	1.5	0	0.0	0.0	93	1.4
Other	0	0.0	0.0	124	99.2	2.1	1	0.8	4.8	125	1.9
Unstated	0	0.0	0.0	26	100.0	0.4	0	0.0	0.0	26	0.4
Total	382	6.0		6012	93.7		21	0.3		6415	·



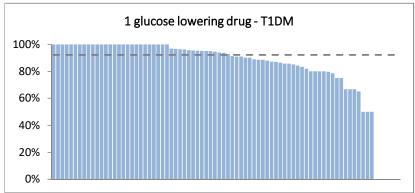


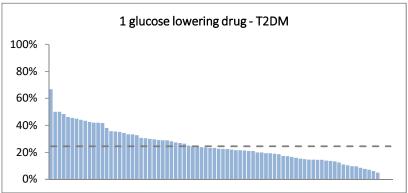
Number of glucose lowering drugs by diabetes type

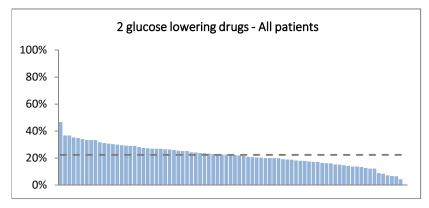
Dishetes tune	0 (1	0 (Not graphed)		1				2			3		≥4 (Not graphed)		hed)
Diabetes type	n	R%	С%	n	R%	C%	n	R%	С%	n	R%	C%	n	R%	C%
T1DM	0	0.0	0.0	1594	92.2	56.3	121	7.0	8.4	13	0.8	1.0	1	0.1	0.3
T2DM	212	5.1	46.1	1013	24.5	35.8	1257	30.3	87.3	1289	31.1	97.1	372	9.0	98.9
GDM	186	58.1	40.4	122	38.1	4.3	11	3.4	0.8	1	0.3	0.1	0	0.0	0.0
Don't know	45	48.4	9.8	21	22.6	0.7	18	19.4	1.3	9	9.7	0.7	0	0.0	0.0
Other	9	7.2	2.0	74	59.2	2.6	26	20.8	1.8	13	10.4	1.0	3	2.4	0.8
Unstated	8	30.8	1.7	8	30.8	0.3	7	26.9	0.5	3	11.5	0.2	0	0.0	0.0
Total	460	7.1		2832	44.0		1440	22.4		1328	20.6		376	5.8	

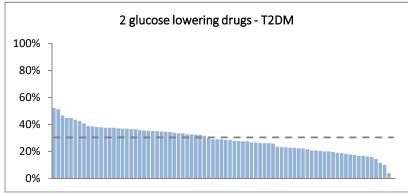


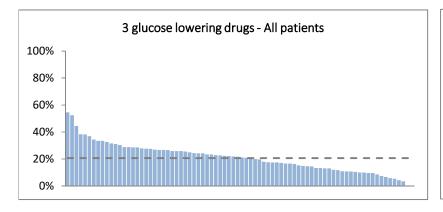
Dishetes Type	То	tal
Diabetes Type	n	%
T1DM	1729	26.9
T2DM	4143	64.4
GDM	320	5.0
Don't know	93	1.4
Other	125	1.9
Unstated	26	0.4
Total	6436	

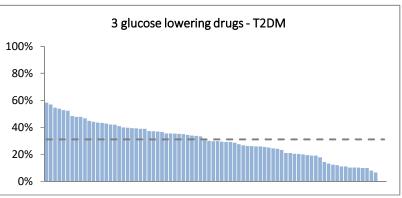








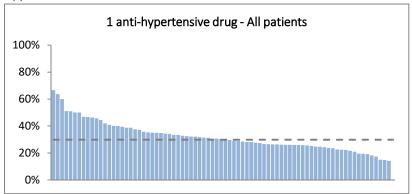


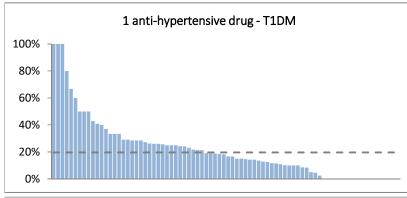


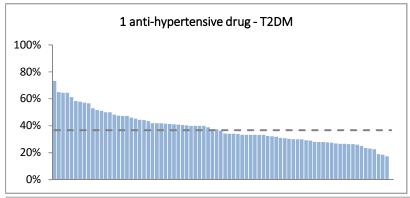
Number of anti-hypertensive drugs by diabetes type

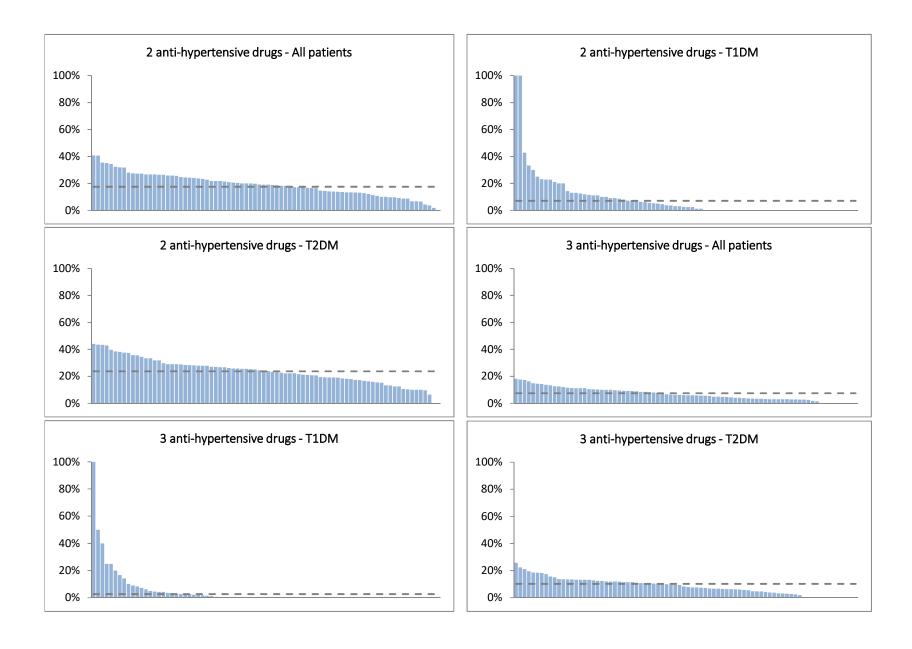
Pichetes tune 1			2 3		≥4 (Not graphed)		То	tal						
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	R%	С%	n	%
T1DM	339	19.6	17.6	122	7.1	10.8	46	2.7	9.6	16	9.7	9.7	1729	26.9
T2DM	1520	36.7	79.1	984	23.8	87.4	424	10.2	88.5	147	3.5	89.1	4143	64.4
GDM	8	2.5	0.4	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	320	5.0
Don't know	12	12.9	0.6	5	5.4	0.4	2	2.2	0.4	1	1.1	0.6	93	1.4
Other	35	28.0	1.8	13	10.4	1.2	6	4.8	1.3	1	0.8	0.6	125	1.9
Unstated	7	26.9	0.4	2	7.7	0.2	1	3.8	0.2	0	0.0	0.0	26	0.4
Total	1921	29.8		1126	17.5		479	7.4		165	2.6		6436	

<sup>\*</sup> of patients who take anti-hypertensive therapy





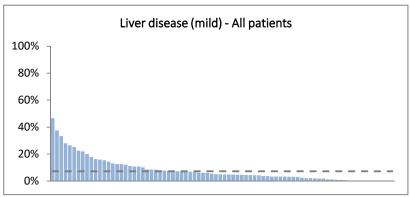


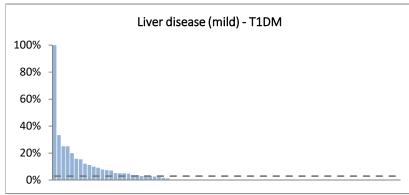


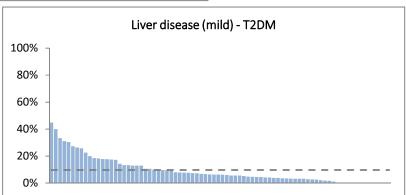
### 6.7 Comorbidities

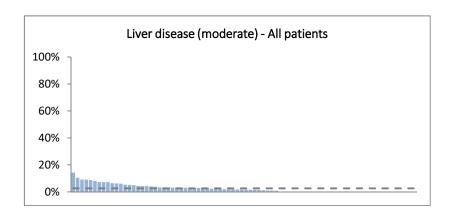
Liver disease by diabetes type

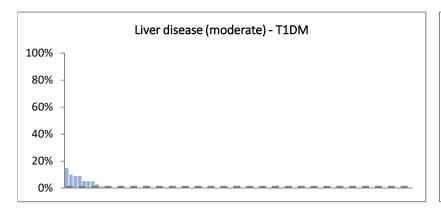
					•	, ,					
Dishetes tune		Mild			Moderate	е	Nil (	Not grapl	ned)	То	tal
Diabetes type	n	R%	C%	n	R%	C%	n	R%	C%	n	%
T1DM	45	2.9	10.6	15	1.0	9.6	1501	96.2	28.5	1561	26.7
T2DM	369	9.7	87.2	132	3.5	84.6	3319	86.9	63.0	3820	65.4
GDM	2	0.6	0.5	1	0.3	0.6	316	99.1	6.0	319	5.5
Don't know	2	11.1	0.5	0	0.0	0.0	16	88.9	0.3	18	0.3
Other	5	4.6	1.2	7	6.5	4.5	96	88.9	1.8	108	1.8
Unstated	0	0.0	0.0	1	5.6	0.6	17	94.4	0.3	18	0.3
Total	423	7.2		156	2.7		5265	90.1		5844	

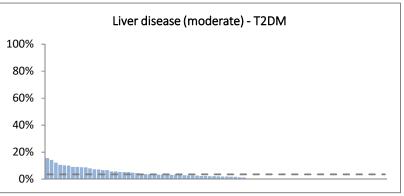












## 7. Historical Comparison of Pooled Data

Table 7.1 Demographic data

Category	2019	2017	2015	2013
Number of sites	80	63	50	30
Number of patients	6436	5719	5183	3843
Mean age (years)	56.0 ± 17.7	55.4 ± 17.8	55.9 ± 17.4	57.1 ± 17.1
Mean diabetes duration (years)	14.5 ± 11.7	14.6 ± 11.8	14.1 ± 11.3	14.3 ± 11.0
Sex (%) (male)	50.0	51.2	50.3	52.3
Pregnant (%) (females 18-55 years)	27.1	26.3	25.1	19.2
Diabetes type (%)				
T1DM	27.0	25.5	23.0	21.1
T2DM	64.6	67.1	68.5	72.8
GDM	5.0	5.0	4.4	2.9
Don't know	1.5	0.8	2.5	0.5
Other	2.0	1.6	1.6	2.7
Unstated	0.4	0.3	1.5	1.5
Initial visit (%)	20.8	15.5	16.5	16.5
Aboriginal/Torres Strait Islander (%)	4.7	4.2	4.7	6.1
DVA patient (%)	1.1	1.2	1.3	NA
NDSS member (%)	94.2	91.8	92.7	NA

Table 7.2 Overall mean data

Fields	2019	2017	2015	2013
rieius	(Mean + SD)	(Mean + SD)	(Mean + SD)	(Mean + SD)
BMI (kg/m²)	31.7 ± 9.3	31.4 ± 7.6	31.5 ± 7.7	31.1 ± 7.3
Systolic BP (mmHg)	131 ± 18	130 ± 17	130 ± 19	129 ± 18
Diastolic BP (mmHg)	76 ± 11	75 ± 11	74 ± 11	74 ± 11
HbA <sub>1c</sub> (%)	8.1 ± 1.8	8.1 ± 1.8	8.2 ± 1.9	8.2 ± 1.9
HbA <sub>1c</sub> (mmol/mol)	64.9 ± 20.0	65.0 ± 19.1	64.4 ± 19.5	64.4 ± 19.5
Total cholesterol (mmol/L)*	4.3 ± 1.2	4.4 ± 1.3	4.3 ± 1.2	4.3 ± 1.6
HDL cholesterol (mmol/L)*	1.2 ± 0.4	1.3 ± 0.5	1.2 ± 0.4	1.2 ± 0.4
Triglyceride (mmol/L)*	2.0 ± 2.1	2.1 ± 2.2	2.1 ± 1.9	2.0 ± 2.3
LDL cholesterol (mmol/L)*	2.2 ± 0.9	2.3 ± 1.0	2.2 ± 1.2	2.2 ± 1.4

<sup>\*</sup> Irrespective of fasting status

Table 7.3 Complications

Complications	2019 (%)	2017 (%)	2015 (%)	2013 (%)
Foot ulceration	4.9	5.6	3.4	2.8
Peripheral vascular disease	7.3	7.8	9.9	9.6
Peripheral neuropathy	18.9	20.6	22.5	22.3
Lower limb amputation	2.7	1.7	1.0	1.1
Microalbuminuria	27.9	30.1	33.8	39.8
Macroalbuminuria	11.4	10.2	17.0	13.8
Proteinuria >300mg/24hr	16.7	33.3	27.3	46.4
eGFR <90 (ml/min/1.73m²)	60.0	44.7	57.7	76.9
eGFR <60 (ml/min/1.73m²)	24.0	17.8	23.4	33.1

#### Table 7.4 Risk factor data

Risk factors	2019 (%)	2017 (%)	2015 (%)	2013 (%)
Current smoker	11.9	12.7	13.8	11.4
Past smoker	30.7	31.8	31.8	26.3
On anti-hypertensive therapy	57.7	58.6	60.7	61.1
On lipid lowering therapy	55.8	59.0	58.0	63.2
BP >130/80	52.4	49.9	45.5	44.3
Raised total cholesterol ≥4.0 mmol/L	58.1	60.4	58.3	56.7
Raised LDL cholesterol ≥2.0 mmol/L	55.2	57.6	55.1	55.5
Reduced HDL cholesterol <1.0 mmol/L	25.1	25.1	28.6	27.4
Raised triglycerides ≥2.0 mmol/L	35.5	36.3	36.8	34.2
Overweight/obese ≥25 kg/m²	81.7	80.2	81.1	80.9

Table 7.5 Complication/event in the last 12 months

Complication/event	2019 (%)	2017 (%)	2015 (%)	2013 (%)
Myocardial infarction	2.3	2.7	3.8	4.8
CABG/angioplasty/stent	2.3	3.1	2.7	3.1
Cerebral stroke	1.4	1.5	1.4	2.2
Congestive cardiac failure	4.3	4.3	3.9	NA
End stage renal disease	3.9	3.8	3.6	4.5
Blindness	1.3	1.0	1.0	1.2
Sexual dysfunction	11.5	NA	NA	NA
Severe hypoglycaemia	5.6	6.5	5.4	6.1

Table 7.6 Complication/event (prior to the last 12 months)

Complication/event	2019 (%)	2017 (%)	2015 (%)	2013 (%)
Myocardial infarction	9.1	9.0	11.0	11.7
CABG/angioplasty/stent	9.4	10.3	10.9	10.4
Cerebral stroke	4.2	4.8	5.5	5.2
Congestive cardiac failure	5.0	4.7	5.0	NA
End stage renal disease	4.6	4.0	4.5	5.3
Blindness	1.6	1.2	1.4	1.3
Sexual dysfunction	11.0	NA	NA	NA
Severe hypoglycaemia	9.6	9.8	NA	NA

Table 7.7 Any complication/event (during or prior to the last 12 months)

Complication/event	2019 (%)	2017 (%)	2015 (%)	2013 (%)
Myocardial infarct	10.2	10.0	12.4	12.3
CABG/angioplasty/stent	10.6	11.9	11.4	10.8
Cerebral stroke	5.1	5.4	5.7	5.5
Congestive cardiac failure	5.9	5.4	5.9	NA
End stage renal disease	4.8	4.8	4.9	4.7
Blindness	1.4	1.4	1.6	13
Sexual dysfunction	12.5	NA	NA	NA
Severe hypoglycaemia	11.6	11.6	NA	NA

Table 7.8 Blood glucose control, BMI, age and diabetes duration

Catagony	2019	2017	2015	2013
Category	(Mean + SD)	(Mean + SD)	(Mean + SD)	(Mean + SD)
Blood Glucose Control (%)				
Mean HbA <sub>1c</sub> T1DM	8.4 ± 1.7	8.5 ± 1.8	8.5 ± 1.8	8.5 ± 1.8
Mean HbA <sub>1c</sub> T2DM	8.1 ± 1.8	8.1 ± 1.7	8.2 ± 1.8	8.0 ± 1.8
Mean HbA <sub>1c</sub> T2DM diet only	6.5 ± 1.3	6.5 ± 1.3	6.5 ± 1.2	6.7 ± 1.6
Mean $HbA_{1c}$ T2DM tablets only	8.1 ± 1.8	8.1 ± 1.7	8.3 ± 1.8	7.5 ± 1.6
Mean $HbA_{1c}$ T2DM insulin only	8.5 ± 1.9	8.4 ± 1.7	8.6 ± 1.8	8.3 ± 1.7
Mean HbA $_{1c}$ T2DM insulin & tablets	8.6 ± 1.8	8.5 ± 1.7	8.7 ± 1.8	8.5 ± 1.7
BMI (kg/m²)				
Mean BMI T1DM	26.6 ± 5.3	26.6 ± 5.3	26.6 ± 5.3	26.6 ± 5.7
Mean BMI T2DM	32.6 ± 7.2	32.6 ± 7.2	32.6 ± 7.2	32.5 ± 7.2
Mean BMI T2DM diet only	$31.3 \pm 6.4$	31.8 ± 6.1	31.9 ± 6.7	30.2 ± 5.9
Mean BMI T2DM tablets only	33.6 ± 8.3	$33.3 \pm 7.4$	33.4 ± 7.6	31.8 ± 7.0
Mean BMI T2DM insulin only	33.7 ± 7.9	33.6 ± 7.5	33.7 ± 7.6	32.3 ± 7.4
Mean BMI T2DM insulin & tablets	34.1 ± 8.0	34.0 ± 7.4	34.3 ± 7.7	33.7 ± 7.3
Age (years)				
Mean age T1DM	43.0 ± 16.9	40.3 ± 16.6	40.0 ± 16.7	40.7 ± 17.0
Mean age T2DM	63.5 ± 13.3	63.1 ± 12.9	62.9 ± 12.5	62.7 ± 13.0
Mean age T2DM diet only	65.7 ± 15.9	65.7 ± 14.4	61.5 ± 13.8	65.0 ± 15.7

Category	2019 (Mean + SD)	2017 (Mean + SD)	2015 (Mean + SD)	2013 (Mean + SD)
	(IVICALL 1 3D)	(IVICALL 1 3D)	(IVICALL 1 3D)	(IVICALL 1 3D)
Mean age T2DM tablets only	63.0 ± 12.9	62.6 ± 12.7	62.4 ± 12.2	61.2 ± 13.7
Mean age T2DM insulin only	64.1 ± 12.8	63.9 ± 12.4	63.5 ± 12.1	65.2 ± 12.8
Mean age T2DM insulin & tablets	63.7 ± 12.4	63.4 ± 12.2	62.8 ± 11.7	62.9 ± 12.8
Duration of diabetes (years)				
Mean duration T1DM	20.3 ± 14.2	19.6 ± 14.3	19.2 ± 14.4	18.3 ± 13.5
Mean duration T2DM	13.4 ± 9.5	13.9 ± 10.0	13.5 ± 9.4	13.6 ± 9.8
Mean duration T2DM diet only	6.5 ± 6.2	6.2 ± 7.3	5.5 ± 6.4	5.1 ± 6.0
Mean duration T2DM tablets only	13.3 ± 9.3	13.6 ± 9.6	13.0 ± 8.9	9.6 ± 7.7
Mean duration T2DM insulin only	16.6 ± 9.5	16.9 ± 10.0	16.2 ± 9.3	18.5 ± 10.5
Mean duration T2DM insulin & tablets	16.4 ± 9.3	16.6 ± 9.6	15.6 ± 8.8	15.4 ± 8.7

Table 7.9 Treatment of cardiovascular risk factors

Treatment	2019 (%)	2017 (%)	2015 (%)	2013 (%)
On anti-hypertensive therapy	57.7	58.6	60.7	61.1
On lipid lowering therapy	55.8	59.0	58.0	63.2
On anti-platelet therapy	29.2	32.4	36.2	40.5

Participating sites were asked to complete the first of two questionnaires at the completion of the data collection phase, to assess the participating sites' satisfaction with the overall process of data collection. The second questionnaire was forwarded with their site report, to assess their response on the individual site report. Free text responses to questions and to other items are reviewed individually and utilised to refine the data collection instrument and reporting process to assist in running future audits.

Table 7.10 shows the results of the feedback (the Likert Scale responses) from participating sites to the specific questions related to the data collection. Both the number of responses and the results improved in 2019 compared to previous years. This may be due in part to the increased number of participating sites and the introduction of the web-based electronic data capture in the clinical audit.

Table 7.10 Questionnaire results

	Like	Likert Scale: 1 = Poor, 3 = Midpoint, 5 = Good			
Questionnaire category	2019 (n=68) (Mean + SD)	2017 (n=43) (Mean + SD)	2015 (n=37) (Mean + SD)	2013 (n=20) (Mean + SD)	
Information package/letters	4.4 ± 0.7	4.1 ± 0.7	4.3 ± 0.7	4.1 ± 1.1	
Data definitions form	4.3 ± 0.7	4.0 ± 0.8	4.0 ± 0.7	3.9 ± 1.1	
Format (layout of data items)	4.0 ± 1.0	3.7 ± 1.0	3.8 ± 0.9	3.6 ± 0.9	
Ease of form completion	3.7 ± 1.0	3.4 ± 1.2	3.7 ± 1.1	3.5 ± 1.2	
Time to complete the form	3.1 ± 1.1	2.6 ± 1.7	3.1 ± 1.0	2.8 ± 1.5	

The results in Table 7.11, from 68 respondents, showed that there was general approval of the 'Process' including the information provided, data definitions form and overall format. These findings are similar to previous collections, and encouraging given some of the participating sites in 2019

were new to the audit. The ease and time needed to complete the data collection form remains of concern to participating sites.

Table 7.11 Questionnaire 1- Response by data collection method

	Likert Scale - 1= Poor, 3= Midpoint, 5= Good			
Questionnaire category	Paper-based (n=46)	Web-based (n=20)	Data extraction (n=2)	
	(Mean ± SD)	(Mean ± SD)	(Mean ± SD)	
Information package/letters	4.5 ± 0.7	4.2 ± 0.7	$4.0 \pm 1.4$	
Data Definitions form	$4.5 \pm 0.7$	$4.1 \pm 0.7$	$4.5 \pm 0.7$	
Format (layout of data items)	$4.1 \pm 0.8$	$4.0 \pm 0.9$	NA	
Ease of completion	$3.6 \pm 0.9$	$3.9 \pm 0.9$	NA	
Time to complete the form	$3.1 \pm 1.1$	$3.2 \pm 1.0$	NA	



# Diabetes Publications & Resource List 2019

There are many resources available nationally that provide evidence based guidelines on how care should be provided and what outcomes should be achieved for people living with diabetes.

The following is a list of commonly used resources in Australia. The list also includes health care organisations involved in the provision of diabetes care. These links have been divided into topics. Please click on the topic of interest.

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Detection and Diagnosis of Type 2 Diabetes  National Evidence Based Guideline for the Primary Prevention of Type 2 Diabetes  To 1	read or download your copy, please <u>click here</u> read or download your copy, please <u>click here</u>
Detection and Diagnosis of Type 2 Diabetes  National Evidence Based Guideline for the Primary Prevention of Type 2 Diabetes  The Australian Diabetes Educators Association  To a	
Prevention of Type 2 Diabetes  The Australian Diabetes Educators Association  To 1	read or download your copy, please click here
	, <u>——</u>
Position Statement on Prediabetes	read or download your copy, please <u>click here</u>
Australian Diabetes Society Position Statement: To	read or download your copy, please <u>click here</u>
The Prevention and Management of Type 2 Diabetes in the Context of Psychotic Disorders	
aim by e	Life! program is a free Victorian lifestyle modification program and at type 2 diabetes and cardiovascular disease risk reduction. Run expert health professionals, the program is delivered as a group arse or a telephone health coaching service. Find out more HERE
Hospital Guidelines	
ADS Guidelines for Routine Glucose Control in Hospital	read or download your copy, please <u>click here</u>
Guidelines pra the with you	se guidelines are primarily intended to provide assistance for those ctitioners whose primary focus is not diabetes or who do not have support of local diabetes expertise in their management of patients h diabetes undergoing surgical procedures. To read or download ir copy, please click here
Obesity Management	
rep and Aus The  1) A pre  2) F exis sett	s statement has been developed by a working group with resentatives from the Australian Diabetes Society, the Australian I New Zealand Obesity Society and the Obesity Surgery Society of stralian and New Zealand.  a aims of the document are to:  assist general practitioners (GPs) in treatment decisions for nongnant adults with obesity  Provide a practical clinical tool to guide the implementation of sting guidelines for the treatment of obesity in the primary care ting in Australia.  Tead or download your copy, please click here (Posted: October, 66)
Type 2 Diabetes: A Joint Statement by International Diabetes Organizations  recc class class glycometric class class class glycometric class class class glycometric class class class class glycometric class cla	ADS has recently endorsed international guidelines that commend metabolic surgery for patients with type 2 diabetes and is III (BMI ≥40 kg/m2) obesity and patients with type 2 diabetes with II (BMI 35.0–39.9 kg/m2) obesity who have had inadequate caemic control with lifestyle and pharmacotherapy.
Type 1 Diabetes	143

Alcohol and type 1 diabetes	To view or download your copy, please <u>click here</u>
Diabetes in Pregnancy booklet for women with type 1 – Having a Healthy Baby	To view or download your copy, please <u>click here</u>
Drug use and type 1 diabetes	To view or download your copy, please <u>click here</u>
Guidelines for Sick Day Management for People with Diabetes	Provides readily accessible information recommending strategies for managing sick days in diabetes. To view the technical document for health professional, please click here  To view the sick day management of adults with type 1 diabetes consumer resources, please click here
NDSS Pregnancy and Diabetes Website	Information for women with type 1 or type diabetes planning a pregnancy now or in the future  To view this website, please click here
National Evidence Based Clinical Care Guidelines for Type 1 Diabetes in Children, Adolescents and Adults	To view or download your copy, please <u>click here</u>
Travelling and type 1 diabetes	To view or download your copy, please <u>click here</u>
Understanding Hypoglycaemia	The International Hypoglycaemia Study Group (IHSG) has launched a website providing information about hypoglycaemia in diabetes. It includes statements and guidelines, practice tools for health professionals and much more.  To view this website, please click here
Type 2 Diabetes	
ADS Position Statement on A New Blood Glucose Management Algorithm for Type 2 Diabetes	This position statement developed by the Australian Diabetes Society outlines the risks, benefits and costs of the available therapies and suggests a treatment algorithm incorporating the older and newer agents. Summary of this ADS Position Statement is as follows:  To read or download the full version of the ADS A New Blood Glucose Management Algorithm for Type 2 Diabetes Position Statement please click here (Updated: December, 2016)
T2D Treatment Website (A New Blood Glucose Management Algorithm for Type 2 Diabetes)	The blood glucose management algorithm for type 2 diabetes outlines the risks, benefits and costs of available therapies and provides an approach for how to incorporate older and newer agents. To view the algorithm and associated resources, including case studies please <a href="click here">click here</a>
Diabetes Management in General Practice 2016/18	General practitioners continue to provide most of the medical support to people with type 2 diabetes. This guide plays an important role in providing a readable summary of current guidelines and recommendations from various sources on the management of type 2 diabetes in the general practice setting. To read or download your copy, please click here
Australian Diabetes Society Position Statement:	To read or download your copy, please <u>click here</u>
The Prevention and Management of Type 2	144

Provides readily accessible information recommending strategie for managing sick days in diabetes. To view the technical docume health professional, please click here. To view the sick day management of adults with type 2 diabetes consumer resources, please - TBA    To view the sick day management of adults with type 2 diabetes consumer resources, please - TBA    The ADS has recently endoored international guidelines that commend metabolic surgery for patients with type 2 diabetes class III (BMI 240 kg/m2) obesity and patients with type 2 diabetes class III (BMI 240 kg/m2) obesity and patients with type 2 diabetes class III (BMI 240 kg/m2) obesity and patients with type 2 diabetes class III (BMI 250-49 sg/m2) obesity who have had inadequate glycaemic control with lifestyle and pharmacotherapy.  To read or download the full version of the 'Metabolic Surgery in Treatment Algorithm for Type 2 Diabetes: A loint Statement by international Diabetes Organizations' Guidelines please click here (Posted: June, 2016)    National Evidence Based Guideline for Diagnosis, Prevention and Management of Chronic Kidney Disease in Type 2 Diabetes    National Evidence Based Guidelines for the Management of Type 2 Diabetes   To read or download your copy, please click here	
Metabolic Surgery in the Treatment Algorithm for Type 2 Diabetes: A Joint Statement by International Diabetes Organisations  The ADS has recently endorsed international guidelines that recommend metabolic surgery for patients with type 2 diabetes class III (BMI 240 Rg/m2) obesity and patients with type 2 diabete class III (BMI 240 Rg/m2) obesity and patients with type 2 diabete class III (BMI 250-29.9 kg/m2) obesity who have had inadequate glycaemic control with lifestyle and pharmacotherapy.  To read or download the full version of the 'Metabolic Surgery in Treatment Algorithm for Type 2 Diabetes: A Joint Statement by International Diabetes Organizations' Guidelines please click here (Posted: June, 2016)  National Evidence Based Guideline for Diagnosis, Prevention and Management of Chronic Kidney Disease in Type 2 Diabetes  National Evidence Based Guidelines for the Management of Type 2 Diabetes  National Evidence Based Guidelines for the Guidelines developed in 2009 under a funding agreement between the Department of Health and Ageing and the Debetses Australia Guideline Development Consortium. The five Guidelines in the symbol consortium and the Department of Health and Ageing and the Department of Health and Ageing and the Debetses Australia Guideline Development Consortium. The five Guidelines in the symbol consortium and the properties of the Propertie	
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Diabetes: Information for Registered and Enrolled Nursesthe Australian Disease Management Association (ADMA) Online Clearinghouse site. To read or download the information please	
Glucose Lowering Medicines: Information for Older People with Diabetes and their Family Members  This is the links to the Q-Med project resources which are available the Australian Disease Management Association (ADMA) Online Clearinghouse site. To read or download the information please here	
Aged Care Diabetes Care Checklist  This is a checklist to assist in the management of diabetes of the aged. To read or download your copy please click has been discovered by the company of the aged.	

Diabetes Management in Aged Care: A practical handbook	This is an updated version of the resource developed in 2012 and is aimed at care staff. To read or download your copy of the E-book, please <u>click here</u> To read or download your PDF copy, please <u>click here</u>
Diabetes Management in Aged Care: Fact sheets for care workers	The diabetes management in aged care fast facts for care workers is a booklet of quick reference sheets that aim to give care staff basic information on how to manage diabetes in a residential care setting: To read or download your copy of the E-book, please click here  To read or download your PDF copy, please click here
Guidelines for the Management and Care of Diabetes in the Elderly	Focuses on the 'healthy' person over 65 years of age. Provides readily accessible information about diabetes prevention, diagnosis, treatment and long term management option for elderly people at risk of or living with diabetes. To view or download your full copy, please click here.
Guidelines for Managing Diabetes at the End of Life	These guidelines were developed in 2014 to assist with the management of Diabetes at the End of Life. To access these guidelines, search for these on the ADMA website. To access the ADMA website please click here
Older People – Healthy Eating Guide	To read or download your copy, please <u>click here</u>
Older People – Managing Diabetes as You Age	To read or download your copy, please <u>click here</u>
Older People – You and your Health Care Team	To read or download your copy, please <u>click here</u>
The McKellar guidelines for Managing Older people with Diabetes in Residential and Other Care Settings	These Guidelines were developed in 2014 to assist with the management of Diabetes in Residential Care Facilities. To access these guidelines, search for these on the ADMA website. To access the ADMA website please click here
Consulting / Diabetes Education	
A new language for diabetes – Improving communications with and about people with diabetes	Diabetes Australia has released an updated version (May 2016) of their position statement on language around diabetes. To view or download your copy, please click here
The use of Language in Diabetes Care and Education	Article from The American Association of Diabetes Educators (AADE) and American Diabetes Association on the use of language in Diabetes Care and Education. To view or download your copy, please click here
Enhancing your consulting skills	"Enhancing Your Consulting Skills" was developed by the ADS for the NDSS. It is now available in electronic format through the ADS website. Please click here to access this. It can be downloaded free of charge for individual use. Please note that you will be required to submit a request for download and obtain your password prior to receiving the download link. Hard copies of the resource are available from the ADS Secretariat.
National Evidenced Based Guideline for Patient Education in Type 2 Diabetes	This document provides minimum standards for development and facilitation of diabetes education programs. To view or download your copy, please click here
Outcomes and Indicators for Diabetes Education: National Consensus Position Information and Education for People with Diabetes: a 'Best Practice' Strategy	This report details a systematically derived framework of nationally agreed goals, outcomes and indicators for diabetes education. It provides a benchmark and policy platform for refining and evaluating the consistency, quality and effectiveness of diabetes education

	services which can be applied nationally and/or at a regional or local service level. To view or download your copy, please click here
Person Centred Care & Health Literacy ADEA project	In 2013-2014 ADEA completed a revision of the information sheet 'Person Centred Care for people with diabetes' and developed an information sheet on Health literacy for people with diabetes. To view or download your copy, please - TBA
Management of Diabetes in the General Care	ASM 2014 Presentation by Giuliana Murfet can be viewed at - TBA
Setting Update	
Renal Information	
National Evidence Based Guideline for Diagnosis,	To view or download your copy, please <u>click here</u>
Prevention and Management of Chronic Kidney	
Disease in Type 2 Diabetes	

## Foot Care

- Australasian Podiatry Council
- <u>Limbs 4 Life</u>
- <u>Diabetic Foot Australia</u>

National Evidence Based Guidelines on Prevention, Identification and Management of Foot Complications in Diabetes	Approved by the NHMRC, the full guideline, clinical guide, consumer guides and technical report can be downloaded <a href="https://example.com/here">here</a>
Standards for High Risk Foot Services (HRFS) in NSW	To view or download your copy, please <u>click here</u>
Promoting Optimal Diabetes Foot Care	"Promoting Optimal Diabetes Foot Care" is a set of audio-visual resources based on national and international guidelines. The resources have been designed to help health professionals develop the clinical skills required to deliver high quality foot care to people with diabetes. The set is comprised of three learning modules:  1. The Foot Examination  2. Preventative Foot Care  3. Managing basic diabetes foot complications
Wound Institute of Australia	The Wound Healing Institute of Australia has developed a comprehensive set of modules on wound care, including specific modules on foot ulcers and leg ulcers.  Find out more about these modules at: <a href="https://www.whia.com.au/product-category/online-learning/">https://www.whia.com.au/product-category/online-learning/</a>
NADC Foot Network	2017 ASM Presentation by Stephen Twigg and Leanne Mullan – Slides can be viewed, <u>HERE</u> (part 1), <u>HERE</u> (part 2)
Eye Care	
Optometrists Association of Australia	

Eye care for diabetes: an Indigenous Perspective	ASM 2014 Presentation by Hugh Taylor can be viewed at nadc.net.au/video/2/
Diabetes Educators	
National Core Competencies for Credentialled	Provides a reference and a framework for guiding policy on the training
Diabetes Educators	and credentialling of diabetes educators. To view or download your

	copy, please <u>click here</u>
National Standards of Practice for Diabetes Educators	One of the strategies developed by ADEA to promote a quality professional diabetes education practice. To view or download your copy, please click here
The Credentialled Diabetes Educator in Australia – Role and Scope of Practice	Reflects the position of their unique and integral role in enabling people with diabetes manage their condition and as part of the multidisciplinary diabetes care team. To view or download your copy, please click here
The Role of Credentialled Diabetes Educators and Accredited Practising Dietitians in the Delivery of Diabetes Self-Management and Nutrition Services for People with Diabetes	To view or download your copy, please <u>click here</u>
Fact Sheets / Patient Resources	
Baker IDI Fact Sheets	These materials have been developed by Baker IDI experts for use by clients and health professionals for patient education. The Institute is committed to providing credible, evidence-based health information regarding optimum approaches to the prevention and management of disease. To view or download these resources, please click here
Diabetes Australia patient information and resources	To view or download these resources, please click here
National Diabetes Services Scheme (NDSS) resources including fact sheets	35 facts sheets including those in other languages are available through the NDSS website. To view or download these resources, please click here
Diabetes and Emotional Health Handbook and Toolkit	'Diabetes and Emotional Health' is a handbook and toolkit developed as part of the National Diabetes Services Scheme Mental Health and Diabetes National Development Programme. The handbook has been designed as an evidence-based, practical resource to enable health professionals to identify, address, and communicate about emotional problems during consultations with adults with diabetes. A related toolkit contains resources to complement the handbook, including summary cards of several chapters, questionnaires for routine clinical use, and related 'factsheets' for people with diabetes. The latter provide information about the psychological topics covered in the chapters of the handbook, tips about what people with diabetes can do when they experience this problem and where they can get further support. Both the handbook and the toolkit can be accessed electronically via the Health Professionals tab of the NDSS website (ndss.com.au). The direct link is <a href="www.ndss.com.au/online-resources-for-health-professionals">www.ndss.com.au/online-resources-for-health-professionals</a> (you will need to 'sign up' to view it). The 'factsheets' are also available directly to people with diabetes electronically via the NDSS website. The direct link is <a href="https://www.ndss.com.au/diabetes-and-emotional-health">https://www.ndss.com.au/diabetes-and-emotional-health</a> .

## **Nutrition / Diet**

- <u>Dietitians Association of Australia</u> (DAA)
- <u>Food Standards Australia New Zealand</u> (FSANZ)
- Glycemic Index Ltd
- Nutrition Australia
- <u>Coeliac Australia</u>
- <u>Diabetes Australia recipes</u>

Healthy Eating Guide for Older Australians with Diabetes	To view or download your copy, please <u>click here</u>
Diabetes and Ramadan	To assist health professionals, religious leaders and people with diabetes who fast during Ramadan, the Australian Diabetes Society, in conjunction with the International Diabetes Federation and Diabetes and Ramadan International Alliance, has endorsed the following brochures:
	<ul> <li><u>Diabetes during Ramadan: Patient Guide</u></li> <li><u>Ramadan and Diabetes: Guidance Sheet for Imam</u></li> <li><u>Management of Diabetes During Ramadan: Quick Reference Guide for Health Professionals</u></li> </ul>
	In February 2017 the NADC joined representatives from the ADS and the Diabetes and Ramadan (DaR) International Alliance at the first-ever Diabetes and Ramadan Symposium at Concord Repatriation General Hospital. The event promoted the new IDF-DaR Diabetes and Ramadan Practical Guidelines, which aim to support healthcare professionals to better support patients during this important religious period.
	A copy of the guidelines can be downloaded from the IDF website at <a href="http://www.idf.org/guidelines/diabetes-in-ramadan">http://www.idf.org/guidelines/diabetes-in-ramadan</a> and presentations from the event can be viewed here: <a href="http://nadc.net.au/video/">http://nadc.net.au/video/</a>
	or via the NADC YouTube channel - <u>NADC Australia</u> .
	<u>Diabetes and Ramadan Overview</u> <u>Diabetes and Ramadan Symposium Introduction - Dr Sof Andrikopoulos</u>
	<u>Diabetes and Ramadan Dr Marwan Obaid</u>
	<u>Diabetes and Ramadan 2 Case Studies Dr Elif Ekinci</u>
	Ramadan, Diabetes and Pregnancy Dr Sarah Abdo
	IDF DAR Practical Guidelines Dr Mohamed Hassanein
Pregnancy	

#### Pregnancy

- The Australasian Diabetes in Pregnancy Society (ADIPS)
- Pregnancy and Diabetes

Diabetes in Pregnancy booklet for women with type	To view or download your copy, please <u>click here for the e-book</u>
1 – Having a Healthy Baby	Click here for the PDF
Diabetes in Pregnancy booklet for women with type	To view or download your copy, please <u>click here</u>
2 – Having a Healthy Baby	Click here for the PDF
Gestational Diabetes - Caring for Yourself and Your	To view or download your copy, please <u>click here</u>
Baby	
Life after Gestational Diabetes	To view or download your copy, please <u>click here</u>
	<u> </u>
NDSS Understanding Gestational Diabetes Factsheet	To view or download your copy, please <u>click here</u>
	Also available in 10 different languages, to view or download translated
	factsheets, please <u>click here</u>

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NDSS Pregnancy and Diabetes Website	Information for women with type 1 or type diabetes planning a pregnancy now or in the future  To view this website, please <u>click here</u>
NDSS Pregnancy Planning Checklist	To view or download your copy, please <u>click here</u>
NDSS Pregnancy and Diabetes Factsheet	To view or download your copy, please <u>click here</u> Also available in 10 different languages, to view or download translated factsheets, please <u>click here</u>

# **Aboriginal and Torres Strait Islander**

• <u>HealthInfoNet</u>

Aboriginal and Torres Strait Islander Resources – NDSS	To view or download resources, please <u>click here</u>
Aboriginal and Torres Strait Islander Resources – Diabetes Australia State Branches	Diabetes Victoria - <a href="https://www.diabetesvic.org.au/ATSI-resources">https://www.diabetesvic.org.au/ATSI-resources</a>
	Diabetes Queensland - https://www.diabetesqld.org.au/managing-diabetes/aboriginal- and-torres-strait-islander.aspx https://www.diabetesqld.org.au/managing-diabetes/aboriginal-
	and-torres-strait-islander/diabetes-and-me.aspx  Diabetes Western Australia - <a href="https://diabeteswa.com.au/manage-your-diabetes/resources/aboriginal-health-resources/">https://diabeteswa.com.au/manage-your-diabetes/resources/aboriginal-health-resources/</a> Diabetes Tasmania - <a href="https://www.diabetestas.org.au/News-and-Resources/Resources/Aboriginal-and-Torres-Strait-Islander-NDSS-">https://www.diabetestas.org.au/News-and-Resources/Resources/Aboriginal-and-Torres-Strait-Islander-NDSS-</a>
	Resources  Diabetes NSW and ACT - https://diabetesnsw.com.au/useful-tools/information-sheets/indigenous-information-sheets/
	Feltman Training - http://www.aboriginalhealthdiabeteswa.com.au/health- professionals/feltman-training/ http://www.diabetessa.com.au/resources/feltman-diabetes-education- resource.html
Online Diabetes Education Training Manual for Aboriginal Health Workers	An online training manual has been developed to increase diabetes knowledge among Aboriginal Health Workers to better support Aboriginal and Torres Strait Islander peoples with diabetes and assist them in self-managing their diabetes.
	This training is targeted to Aboriginal and Torres Strait Islander Health Practitioners and Aboriginal and Torres Strait Islander Health Workers who have completed a minimum of Certificate IV in Aboriginal and/or Torres Strait Islander Primary Health Care (Community Care) or (Practice).
	This course is available through the ADEA Learning Management System at: <u>learning.adea.com.au</u>

Your guide to Medicare for Indigenous health services	The department of Human Services have updated the newly launched education resource, "Your guide to Medicare for Indigenous health services" to incorporate the important 1 July 2018 Medicare changes.
	To find more <b>Indigenous health education</b> resources please visit <u>Human Services <b>TBA</b></u>
Eye care for diabetes: An Indigenous Perspective	ASM 2014 Presentation by Hugh Taylor can be viewed at - TBA

## CALD / Multilingual

- NDSS translated resources
- $\underline{\text{Health Translations}} \text{ by the Victorian Government includes translated health information}$
- <u>Multicultural Health</u> by the Queensland Government

<ul> <li><u>Multicultural Health Communication</u> by NSW</li> </ul>	Health
Translated resources for CALD groups	All of the NDSS's translated resources are now also available on our Multicultural Diabetes Portal. The portal provides access to a broad range of diabetes resources for people from culturally and linguistically diverse (CALD) backgrounds.  Resources contained on the site have been sourced from Diabetes Australia and its agents and from other reputable sources. All content has undergone a quality assessment process and guidelines are in place to ensure periodic review. To view or download this content, please click here
Web portal for information about diabetes for people from culturally and linguistically diverse backgrounds	To view or download your copy, please <u>click here</u>
Diabetes and Ramadan	To assist health professionals, religious leaders and people with diabetes who fast during Ramadan, the Australian Diabetes Society, in conjunction with the International Diabetes Federation and Diabetes and Ramadan International Alliance, has endorsed the following brochures:   • Diabetes during Ramadan: Patient Guide • Ramadan and Diabetes: Guidance Sheet for Imam • Management of Diabetes During Ramadan: Quick Reference Guide for Health Professionals  In February 2017 the NADC joined representatives from the ADS and the Diabetes and Ramadan (DaR) International Alliance at the first-ever Diabetes and Ramadan Symposium at Concord Repatriation General Hospital. The event promoted the new IDF-DaR Diabetes and Ramadan Practical Guidelines, which aim to support healthcare professionals to better support patients during this important religious period.  A copy of the guidelines can be downloaded from the IDF website at <a href="http://www.idf.org/guidelines/diabetes-in-ramadan">http://www.idf.org/guidelines/diabetes-in-ramadan</a> and presentations from the event can be viewed here: <a href="http://nadc.net.au/video/">http://nadc.net.au/video/</a> or via the NADC YouTube channel - <a href="NADC Australia">NADC Australia</a> . <a href="Diabetes and Ramadan Overview">Diabetes and Ramadan Overview</a> Diabetes and Ramadan Dr Marwan Obaid

<u>Diabetes and Ramadan 2 Case Studies Dr Elif Ekinci</u>

Ramadan, Diabetes and Pregnancy Dr Sarah Abdo

IDF DAR Practical Guidelines Dr Mohamed Hassanein

## Data / Research / Quality Improvement

- <u>Diabetes Australia Research Program</u>
- <u>Juvenile Diabetes Research Foundation</u> (JDRF)
- The Australian Centre for Behavioural Research in Diabetes
- The Diabetes Research Centre
- The Diabetes Research Foundation Western Australia
- The John Curtin School of Medical Research
- The NHMRC Centre of Clinical Research Excellence on Clinical Science in Diabetes (Diabetes CCRE)
- Baker IDI
- The Walter and Eliza Hall Institute of Medical Research

Australian National Diabetes Audit (ANDA) reports	The primary aim of ANDA is to:
	·conduct a survey that will assess a standardised set of predefined clinical (AQCA) and self-management diabetes (AQSMA) indicators including demographic and biological variables, and clinical outcomes; enable diabetes services to benchmark their practice processes and clinical outcome data against that of other centres;
	·enable diabetes services to compare their practice processes and clinical outcome data over time (where participation in previous collections has occurred); and
	·provide pooled national data and data grouped by state and metropolitan/regional/remote location on the clinical status of people with diabetes attending diabetes services.
	This important quality assurance activity promotes continuous improvement in the standard of service provided by diabetes centres and is the primary quality assurance activity of the NADC. To view this data please <u>click here</u>
ANDA: Lessons from the 2016 Quality Self- Management Audit	ASM 2017 Presentation Slides by Anthony Pease can be accessed <u>here</u>
Data Snapshots	NDSS national diabetes data snapshots are updated every three months, and provide key statistics for all types of diabetes, type 1 diabetes, type 2 diabetes, gestational diabetes, and insulin therapy. To view or download these snapshots, please click here
Diabetes Map Australia	The Australian Diabetes Map is the only national map monitoring the prevalence of diabetes in Australia.
	The data contained in the Australian Diabetes Map is derived from the National Diabetes Services Scheme (NDSS) Registrant database* and the Australian Bureau of Statistics (ABS) and shows people diagnosed with diabetes that are registered on the Scheme.
	It shows the numbers of people diagnosed with diabetes in all parts of Australia with information on age, gender, type of diabetes, ATSI status and socio-economic disadvantage. To view the Australian Diabetes Map, please click here
2015 Miles Youth Report	To view or download your copy, please <u>click here</u>

National Association of Diabetes Centres Accreditation	ASM 2014 Presentation by Elaine Pretorious can be viewed at <a href="mailto:nadc.net.au/video/2/">nadc.net.au/video/2/</a>
Implementing and utilising the Biogrid database in Diabetes Centres	ASM 2014 Presentation by Peter Coleman can be viewed at nadc.net.au/video/2/
HbA1c	
ADEA Position Statement on HbA1c Reporting	The ADEA supports the change in routine laboratory HbA1c reporting from the NGSP % units to International Federation of Clinical Chemists (IFCC) units (mmol/mol). To view ADEA's position statement - TBA
Individualisation of HbA1c targets for Adults with Diabetes Mellitus.	To view or download the full version of this guideline, please <u>click here</u> To view or download the short version, please <u>click here</u>
Subcutaneous Devices / Techniques	
ADEA Clinical Guiding Principles for Subcutaneous Injection Technique	The ADEA Clinical Guiding Principles for Subcutaneous Injection Technique identifies a number of broad clinical issues including optimal needle length and angle of needle insertion for children/adolescents and adults of varying anatomical size. These clinical recommendations reinforce the importance of documenting the process of teaching and reviewing injection technique. To view or download your copy, please - TBA
Use of subcutaneous insulin delivery devices	This position statement outlines ADEA recommendations for use of subcutaneous insulin delivery devices. To view or download your copy, please - TBA
Australian New Zealand (ANZ) Forum for Injection Technique & Therapy Expert Recommendations (FITTER)	ANZ FITTER Speaker Presentation Slides: Introduction to FITTER Presentation – Prof Glen Maberly  IT in Adults & AU ITQ Findings – Michelle Robins  IT In Children – Prof Paul Hofman  NZ Perspective & IT Trends – Dr Helen Snell & Dr Brandon Orr-Walker  The Role of General Prac in IT Education for Patients – Dr Kean-Seng Lim  The Role of Pharmacy in IT Education for Patients – Teresa Di Franco
Driving	
ADEA Fitness to Drive	The goal of the roll out of the Support for Health Professionals in the assessment of a person with diabetes and their fitness to drive program is to ensure a large percentage of health professionals are exposed to the online program and are aware of their obligations under AustRoad's Assessing Fitness to Drive for commercial and private drivers; Medical Standards for Licensing and Clinical Management Guidelines.  Templates have been developed to assist general practice in implementing discussions around diabetes and driving during consultations:  Rich text format template - TBA
	Rich text format template - TBA

Assessing Fitness to Drive	The National Transport Commission and Austroads have released Assessing Fitness to Drive 2016, a new edition of national
	medical standards for driver licensing. To view or download a copy,
	please <u>click here</u>
Driving and Diabetes in Australia Booklet	To view or download a copy please <u>click here</u>
Driving and Recent Severe Hypoglycaemia Flyer	To view or download a copy, please <u>click here</u>
ADS Position Statement on Insulin-requiring	To view or download your copy, please <u>click here</u>
diabetes and recreation diving	
Workplace	This hooklet was developed in response to sucrtices as a second
An Employee's Guide to Diabetes in the Workplace	This booklet was developed in response to questions, concerns and suggestions Diabetes Australia received from members of the diabetes
	community about diabetes in the workplace. To view or download your
	copy, please <u>click here</u>
Diabetes Victoria Diabetes in the Workplace	Diabetes Victoria have developed booklets about diabetes in the workplace for people with diabetes, their employees and co-workers.
	workplace for people with diabetes, their employees and co-workers.
	To access these booklets and additional information from Diabetes
	Victoria <u>click here</u> or click below to view or download your PDF copy of a specific booklet.
	An employer's guide to diabetes in the workplace (PDF)
	<ul> <li>An employee's guide to diabetes in the workplace (PDF)</li> <li>Diabetes in the workplace: explanatory notes for health</li> </ul>
	professionals (PDF)
	Diabetes in the workplace checklist (PDF)
NDSS	
Blood Glucose Test Strip Six Month Approval – NDSS	To download your copy, please <u>click here</u>
Medication Change Form – NDSS	To download your copy, please <u>click here</u>
Registration Form - NDSS	To download your copy, please <u>click here</u>
Personal Details Update Form - NDSS	To download your copy, please <u>click here</u>
Insulin Pump Consumables Assessment Form - NDSS	To download your copy, please <u>click here</u>
The second state of the se	administration of the control of
Continuous Glucose Monitoring Eligibility	To download your copy, please <u>click here</u>
Assessment Form – NDSS	
Continuous Glucose Monitoring Update or	To download your copy, please <u>click here</u>
Termination Form – NDSS	
NDSS Resource Library	To access resources, please <u>click here</u>
·	10 decess resources, pieuse citek nere
Diabetes Related Organisations In Australia	

#### Diabetes Related Organisations In Austral

- <u>Australian Diabetes Society</u>
- Australian Diabetes Educators Association
- <u>Diabetes Australia</u>

- National Diabetes Services Scheme
- National Association of Diabetes Centres

Diabetes Australia Position Statements	To view or download all current Diabetes Australia position
	statements, please <u>click here</u>

## **Australian Government Departments**

- Australian Department of Health
  - BPDC 2016 Minister for Health Presentation Priorities for the Government in Health can be viewed at <a href="https://www.youtube.com/watch?v=w-0QRgDISS8">https://www.youtube.com/watch?v=w-0QRgDISS8</a>
- Australian Institute of Health and Welfare
- Federation of Ethnic Communities Council Australia
- Healthdirect Australia
- Food Standards Australia and New Zealand
- Medicare Australia
- National Health and Medical Research Council (NH&MRC)
- Pharmaceutical Benefits Scheme
- Therapeutic Goods Administration

## **Professional Associations & Organisations**

- Australian Diabetes Society (ADS)
- Australian Diabetes Educators Association (ADEA)
- Australian Medicare Local Alliance (AMLA) formerly AGPN
- Australian Practice Nurses Association (APNA)
- Australasian Diabetes In Pregnancy Society (ADIPS)
- Australasian Paediatric Endocrine Group (APEG)
- Australasian Podiatry Council
- Cancer Council Australia
- Dietitians Association of Australia
- National Heart Foundation
- Kidney Health Australia
- National Aboriginal Community Controlled Health Organisation
- National Stroke Foundation
- Optometrists Association of Australia
- Palliative Care Australia
- Pharmaceutical Society of Australia
- The Royal Australian College of General Practitioners
- Pharmacy Guild of Australia

### **International Diabetes Associations**

- International Diabetes Federation
- American Diabetes Association
- Canadian Diabetes Association
- Diabetes New Zealand
- <u>Diabetes United Kingdom</u>
- Glycosmedia

### Support

- <u>Children with Diabetes</u> (part of the Johnson & Johnson Diabetes Franchise)
- <u>Diabetes Counselling Online</u>
- Munted Pancreas
- Reality Check Inc.
- Diabetes and Emotional Health Handbook and Toolkit

updated 30.08.2018

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