



Dentistry Productivity Reporting

Faculty Guide

Business Intelligence Team, Shared Platform and Development Services

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1 GENERAL INFORMATION

1.1 SYSTEM OVERVIEW

The Dentistry Productivity Reporting Power BI solution was implemented to provide data on dentistry students clinical progress during their third and fourth years. The data in the reports has been calculated based on the established business rules set forth by the Faculty of Dentistry to measure student progress toward meeting the minimum clinical requirements.

This service is available to third and fourth year dentistry students and certain authorized staff in the Faculty of Dentistry. Students with access to the Abident clinical software system will be authorized to use this service.

1.2 POINTS OF CONTACT

Contact	Unit
Dr. Jeffrey Myers (Jeffrey.myers@mcgill.ca)	Faculty of Dentistry
Dr. Nathalie Morin (Nathalie.morin@mcgill.ca)	Faculty of Dentistry

1.3 SECURITY

Access to reports is managed by the Faculty of Dentistry and is granted to members of the following Active Directory (AD) groups:

AD Group	Users
023-Dentistry_Students_U3	Third year Dentistry students
023-Dentistry_Students_U4	Fourth year Dentistry students
023-Dentistry Student Promotions	Dentistry Promotions Committee

1.4 DATA SOURCES

The sources of data for the productivity reports are the Abeldent system database and a separate table of dentistry codes and categories stored in McGill’s Master Data Services (MDS) database.

The accuracy of the reports is dependent on the data entered in Abeldent and in the procedure code categories table.

1.5 DATA REFRESH

The data is refreshed from Abeldent twice daily at 1:00 am and 1:00 pm, seven days per week. When data has been changed in either source, the reports will reflect the new data after the next scheduled refresh time.

For example, if a student completes a procedure by 12 pm on a given day, the data on that procedure should be reflected in the report just after 1:00 pm. If a procedure is completed after 1:00 pm, it will be reflected in the report the following morning.

1.6 MAINTAINING PROVIDER INFORMATION IN ABELDENT

To maintain the integrity of the productivity reports, several columns in the Abeldent database must contain data in a certain format moving forward. The reports have been built on the assumption that the data in following fields will be entered according to established business rules for calculating the procedures for each student.

Abeldent Field	Column in dbo.DNT	Business Rule
Provider ID	did	Provider IDs must be four numerical characters. The first two characters must be the last two digits of the student's graduating year. If the student is to graduate in 2022, the provider ID must start with '22'. The next two digits will be unique for each student, 1-40. For example, Provider ID '2307' would be assigned to the seventh student expected to graduate in 2023.
Professional Title	dttitle	This field should remain empty unless the student has failed the third or fourth year. If the student has failed their 3 rd year, the number '3' should be entered. If the student has failed their fourth year, the number '4' should be entered. Otherwise, no value should be entered in this field.
Email	demail	Student access to the individual student productivity report is based on their email address. Each student must have their valid McGill email address assigned to this field.

2 ACCESSING THE REPORTS

2.1 POWER BI REPORT SERVER

The reports are hosted on McGill's Power BI Report Server and can be accessed directly through a browser at the following address:

URL: <https://pbipwrrs.campus.mcgill.ca/Reports/browse/Dentistry-Productivity>

You will need to sign in using your [McGill username and password](#).

- Students will have access to their individual report by selecting the 'Student_View' report.
- Faculty will have access to both student and cumulative reports through the 'Faculty_View' report.

Please note that this service will require you to logon to the VPN to obtain access.

3 FACULTY VIEW REPORTS

After logging in, you will land on the Dentistry Productivity reports page. Click the 'Faculty_View' report to open the report series.



The Faculty View report contains three separate reports, identified by the tabs at the bottom of the page:

- Student Productivity
- Cumulative Productivity
- Class Productivity Ranking

McGill | Power BI Report Server

Home > Dentistry_Productivity > Faculty_View

File View Edit in Power BI Desktop Explore Refresh

Student Productivity Report LastName, FirstName

Class/Student	Academic Session(s)	Status Report	Attempted	Delivered	Minimal Experience
Multiple selections 3rd Year		Procedure	Total	Total	
		Complete Dentures	4		3
		Endodontic Canals			12
		Extractions			0
		Fixed Units			9
		Implants			1
		Partial Dentures			3
		Pediatric Exams			0
		Perio Surgery Assist		1	3
		Periodontal Examinations		1	6
		Periodontal Surgery			3
		Post and Cores			1
		Pulpotomy Primary			0
		Root Planning/Debridement		9	16
		Quadrants			34
		Scaling			50
		Sealants			0
		Simple Restorative		12	75
		Simple Restorative Primary			0
		Space Maintainers			0
		Stainless Steel Crowns Primary			0

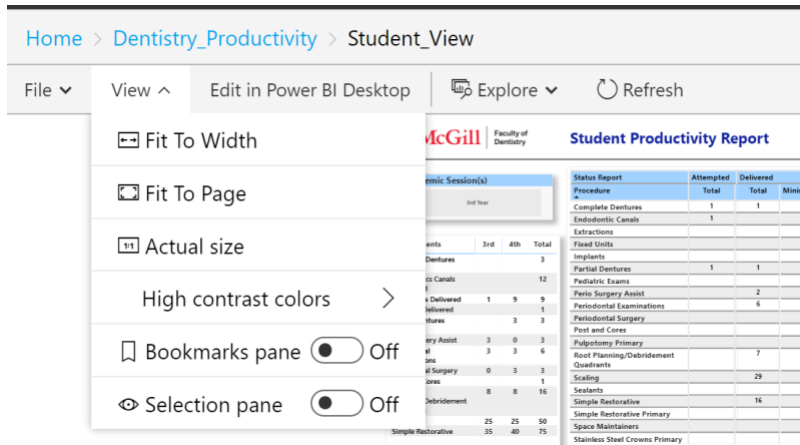
Requirements	3rd	4th	Total
Complete Dentures Delivered			3
Endodontics Canals Completed			12
Fixed Units Delivered	1	9	9
Implants Delivered			1
Partial Dentures Delivered			3
Perio Surgery Assist	3	0	3
Periodontal Examinations	3	3	6
Periodontal Surgery	0	3	3
Post and Core	8	8	16
Root Planning/Debridement Quadrants	25	25	50
Scaling	35	40	75
Simple Restorative			

Navigation tabs: Student Productivity (selected), Cumulative Productivity, Class Productivity Ranking

3.1 NAVIGATING IN POWER BI

Power BI uses ‘visuals’ or graphs to display the data within a report and ‘slicers’ to filter the data. Additional filtering options are available, but not recommended as the reports have been prefiltered for you.

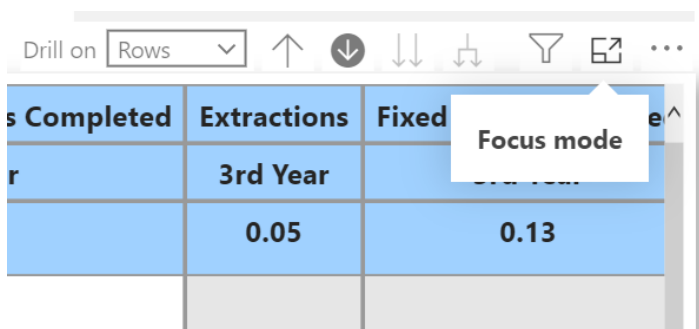
To enlarge the entire report click ‘View’ and select ‘Fit to Width’ or ‘Actual Size’ depending on your preference.



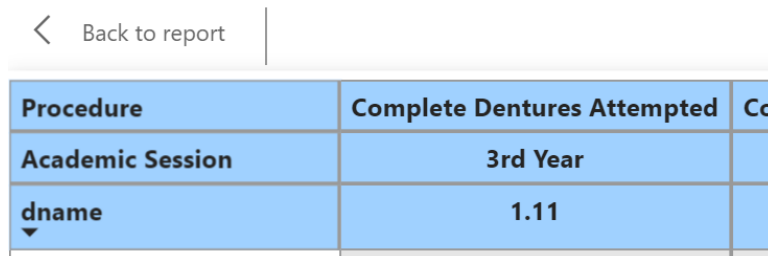
Additionally, each visual can be enlarged and displayed on a single page by using 'Focus mode'.

To view a visual in focus mode:

1. Click anywhere on the visual. Viewing options will appear at the top right of the visual.



2. Click the 'Focus mode' icon to enlarge the visual on a separate page.
3. When finished with focus mode, click 'Back to report' to return to the report page.



3.2 STUDENT PRODUCTIVITY

Class / Student & Academic Slicers

Requirements Table

Requirements	3rd	4th	Total
Complete Dentures Delivered			3
Endodontics Canals Completed			12
Fixed Units Delivered	1	9	9
Implants Delivered			1
Partial Dentures Delivered		3	3
Perio Surgery Assist	3	0	3
Periodontal Examinations	3	3	6
Periodontal Surgery	0	3	3
Post and Cores			1
Root Planning/Debridement Quadrants	8	8	16
Scaling	25	25	50
Simple Restorative	35	40	75

Status Report

Procedure	Attempted		Delivered	
	Total	Minimal Experience	Total	Minimal Experience
Complete Dentures	4			3
Endodontic Canals				12
Extractions				0
Fixed Units				9
Implants				1
Partial Dentures				3
Pediatric Exams				0
Perio Surgery Assist			1	3
Periodontal Examinations			1	6
Periodontal Surgery				3
Post and Cores				1
Pulpotomy Primary				0
Root Planning/Debridement Quadrants			9	16
Scaling			34	50
Sealants				0
Simple Restorative			12	75
Simple Restorative Primary				0
Space Maintainers				0
Stainless Steel Crowns Primary				0

Productivity Gauges

- Complete Dentures: 0 (Blank) 3
- Partial Dentures: 0 (Blank) 3
- Fixed Units: 0 (Blank) 9
- Root Planning/Debridement Quadrants: 0 9 16
- Endodontic Canals: 0 (Blank) 12

The Student Productivity report displays student progress towards meeting the minimal requirements set by the Faculty of Dentistry.

This report includes a table of requirements of which the source data is the code categories table in MDS, a status report on the attempted and delivered procedures, along with gauge visuals for five specific procedures. The data in the status report is pulled directly from Abeldent.

3.3 CUMULATIVE PRODUCTIVITY

Class & Session Slicers

Procedure Filter

Procedure	Complete Dentures Attempted	Complete Dentures Delivered	Endodontic Teeth Attempted	Endodontics Canals Completed	Extractions	Fixed Units Attempted
Academic Session	3rd Year	3rd Year	3rd Year	3rd Year	3rd Year	3rd Year
Session Average	1.11	0.39	0.39	0.32	0.05	0.13
2021						
WISEMAN, Stephanie			1	1		
WEINSTEIN, Nathaniel	1	1	1	1		
WANG, Frances	2	2	1			
VUONG, Thien						
Tarar, Maryam	1					
SOHAL, Amanpreet						
SHEN, Nicole	2					
SBAYTE, Hassan						
POURESA, Sepehr	2					
OUELLET, Nicolas	1					
O'MALLEY, Keelan			1	1		
NGUYEN, Yen-Chau	1					
MARCIL, Lorenzo	2	1		1		

Report

The Cumulative Productivity report provides cumulative totals for each procedure per class per academic session, along with the session average.

- A grey cell indicates that the student did not complete the procedure listed in that column.
- A red flag indicates that the total for the procedure is less than 50% of the class average.

Use the scroll bar at the bottom to view all the procedures and the scroll bar on the right to view all the students.

If two sessions are selected, averages will appear for each academic session.

3.4 CLASS PRODUCTIVITY RANKING



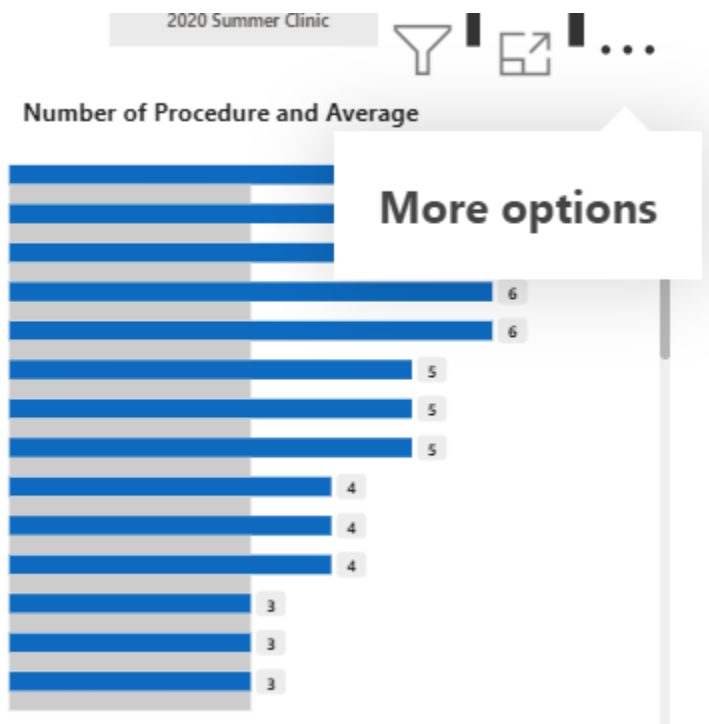
The Class Productivity Ranking report provides a visual ranking of the number of completed procedures by the students in descending order. Students who have delivered or completed the highest number of a given procedure will appear at the top of the graph, while students who have not completed a procedure will be listed at the bottom.

The class average for a given procedure is indicated by the grey bars. Hover the mouse pointer over the grey bar to view the class average.

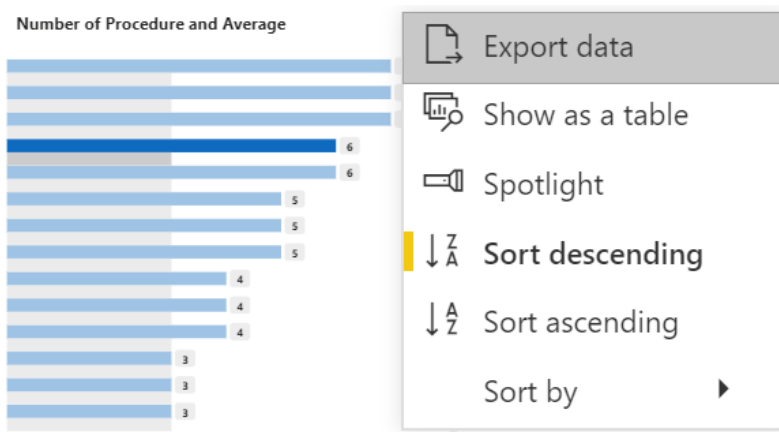
Note: The average value is not meaningful unless a single procedure is selected!

To change the order of the Class Ranking graph:

1. Click anywhere on the graph. Three dots will appear at the top right.



2. Click on the three dots then select 'Sort ascending'.



The graph will readjust to display the students in ascending order; students who have not completed a single procedure will be displayed first.