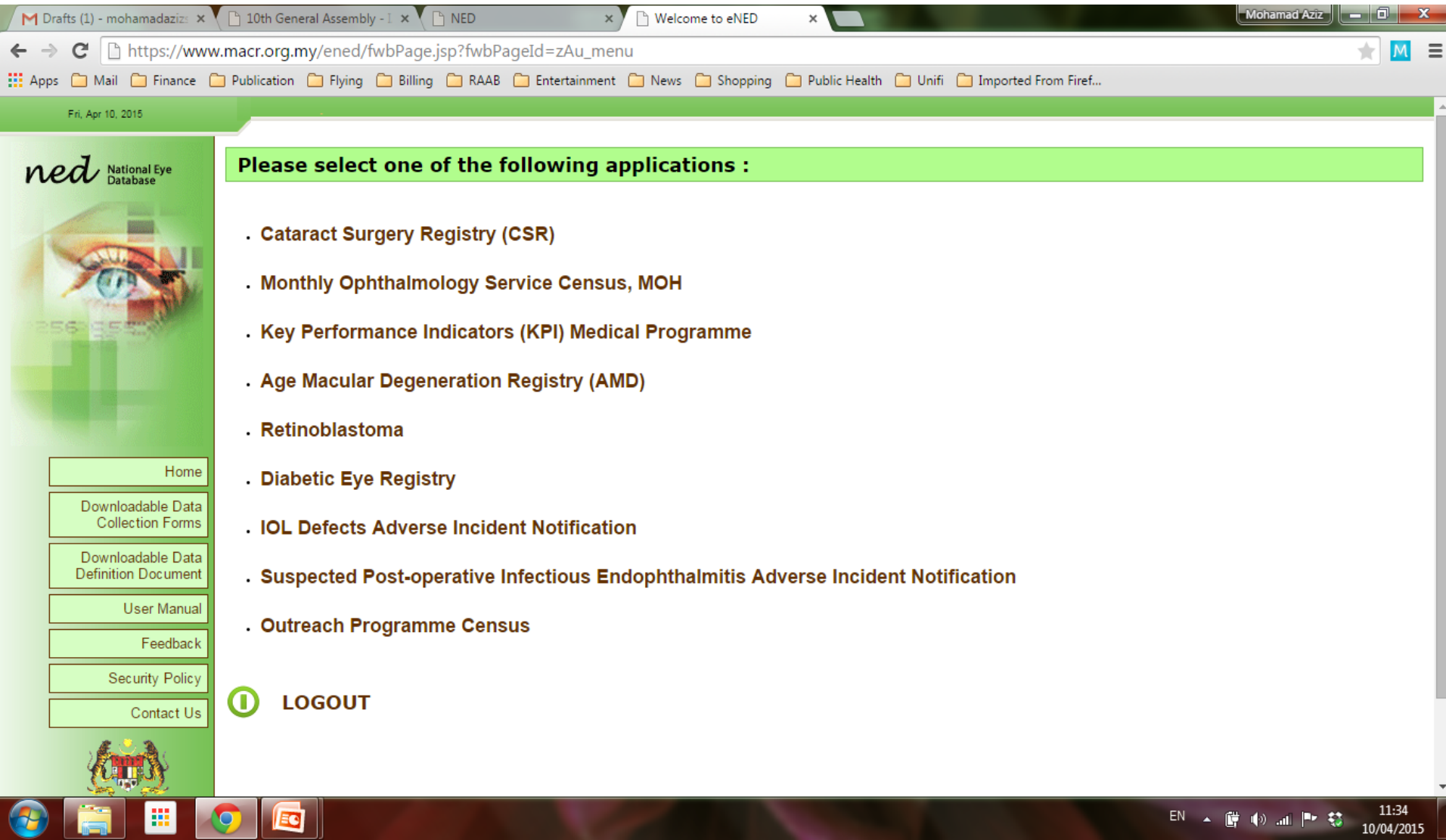


e-KPI



# List of NED web-application



The screenshot shows a web browser window with the URL [https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=zAu\\_menu](https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=zAu_menu). The page title is "Please select one of the following applications :". The sidebar on the left contains the following navigation links: Home, Downloadable Data Collection Forms, Downloadable Data Definition Document, User Manual, Feedback, Security Policy, and Contact Us. The main content area lists the following applications:

- . Cataract Surgery Registry (CSR)
- . Monthly Ophthalmology Service Census, MOH
- . Key Performance Indicators (KPI) Medical Programme
- . Age Macular Degeneration Registry (AMD)
- . Retinoblastoma
- . Diabetic Eye Registry
- . IOL Defects Adverse Incident Notification
- . Suspected Post-operative Infectious Endophthalmitis Adverse Incident Notification
- . Outreach Programme Census

At the bottom of the main content area, there is a "LOGOUT" button with an information icon.

EN 11:34 10/04/2015



that selected data in CSR are auto-mined by e-CUSUM to generate charts for PCR and Visual Outcome

**DID YOU  
KNOW**



that selected data in CSR are also auto-mined by e-KPI to generate results for KPI endophthalmitis, KPI Visual Outcome and PCR?

# The difference....

## **e-CUSUM**

- Automines data from CSR to generate CUSUM charts for PCR and Visual Outcome
- Comes with auto-cataract logbook
- Benefits individual surgeons

## **e-KPI**

- Automines data from CSR to generate results for Endophthalmitis (KPI 2), Visual Outcome (KPI 3) and PCR
- Allows comparison and trending
- Benefits department



**But please remember that in order for both eCUSUM and eKPI to fully function, data entry for CSR has to be in real-time and complete!**

# Properties of e-KPI

- Only for departmental Key Performance Indicator (KPI), Performance Indicator (PI) and PCR
- Individual KPIs are excluded
- Provides effortless data management as data on endophthalmitis, visual outcomes and PCR are directly linked to CSR
- Downloadable PDF and graphical report
- Can be used for trending and comparison



How to use e-KPI?



# Please click: <http://www.acrm.org.my/ned/>

Friday, April 10, 2015

## NED National Eye Database

Registries			Performance Monitoring				Service Monitoring and Surveillance		
CSR	Retinoblastoma	Diabetic Eye	AMD	eKPI	eCUSUM	Monthly Census	IOL	Infectious Endophthalmitis	Outreach Programme Census

**National Eye Database (NED)**

The National Eye Database (NED) is a service supported by the Ministry of Health (MOH) as an approach to collect health information. It collects data on incidences and distributions, and evaluates risk factors as well as treatment outcome of visually threatening eye diseases such as cataract, diabetic retinopathy, glaucoma and contact lens related corneal ulcer. In the initial phase, NED will collect data on cataract surgery, status of diabetic retinopathy in new diabetic patients, contact lens related corneal ulcer and glaucoma patients. Besides disease registry, NED also collects monthly service census of MOH Ophthalmology departments. The census serves as an effort to monitor key performance indicators of each ophthalmology department in the MOH.

Information collected at NED w program planning and evaluatic

sting the MOH, Non-Governmental Organizations, private healthcare providers and industry in prevention and control as well as continuous improvement of ophthalmic service in the nation.

**Registries**

- [Click here](#)
- [Age Related Macular Degener](#)


**Performance Monitoring**

- [Key Performance Indicators \(](#)
- [Cusum Ophthalmology](#)

**Service Monitoring and Surveillance**

- [Monthly Ophthalmology service census](#)
- [Adverse Incident Reporting for Ophthalmology](#)
- [Adverse Incident Endophthalmitis](#)
- [Outreach Programme Census](#)

**SPONSORS**



**MALYSIAN SOCIETY OF OPHTHALMOLOGY**

**CONTACT US**

**Manager,**  
The Manager  
National Eye Database  
Clinical Research Centre  
Kepong-Selayang Highway  
68100, Batu Caves  
Selangor.

Phone: 603-6120 3233 ext 4320  
Fax: 603-6120 2761  
Email: [ned@acrm.org.my](mailto:ned@acrm.org.my)  
Website: <http://www.acrm.org>

Dropbox 3.2.9  
Up to date

10:48  
10/04/2015

# Username and Password

ned National Eye Database

256 353

Home

Downloadable Data Collection Forms

Downloadable Data Definition Document

User Manual

Feedback

Security Policy

Contact Us

Malaysia

>Welcome to  
National Eye Database -  
NED Web Application

To access eNTR Cornea Transplant, click [here](#)

To access NED web application  
Sign in to NED

Username:

Password:

**Sign in**

[Forgot password?](#)

**Need Assistance?**

Registration  
Contact the eNED Manager at:  
Tel: 603 - 6120 3233 ext 4320

Technical problem  
Contact the eNED Administrator at:  
Tel: +603-40418615 / +603-40428615

Monday - Friday 8.30am - 5pm

Enter username and password

Mohamad Aziz

11:22  
10/04/2015

# Authorization code

The screenshot shows a web browser window with the URL `https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=zAu_MobileAuth`. The page title is "National Eye Database" and the date is "Fri, Apr 10, 2015".

**Confidentiality Statement**

You are about to gain access to the National Eye Database (eNED) Web Application. By proceeding, you are agreeing to maintain the confidentiality of all information made available to you through this application. Any unauthorized access, use and/or disclosure of information shall be construed under the laws of Malaysia, and any action instituted pursuant to the terms of the Confidentiality Statement in the Governance Manual of the NED, shall be brought in the Court of Malaysia. Actions may include but not limited to suspension or dismissal, an action for civil damages, an action for criminal charges, and/or disciplinary action including but not limited to suspension or dismissal.

The security of your data is of utmost concern to us. We practice strong security measures to prevent unauthorised access and interference of transactions and data. Read more about our policies and practices.

Please key in the authentication code that has just been sent to you via SMS.

Username: aziz

Auth Code:

[Submit](#)

[Auth Code help](#)

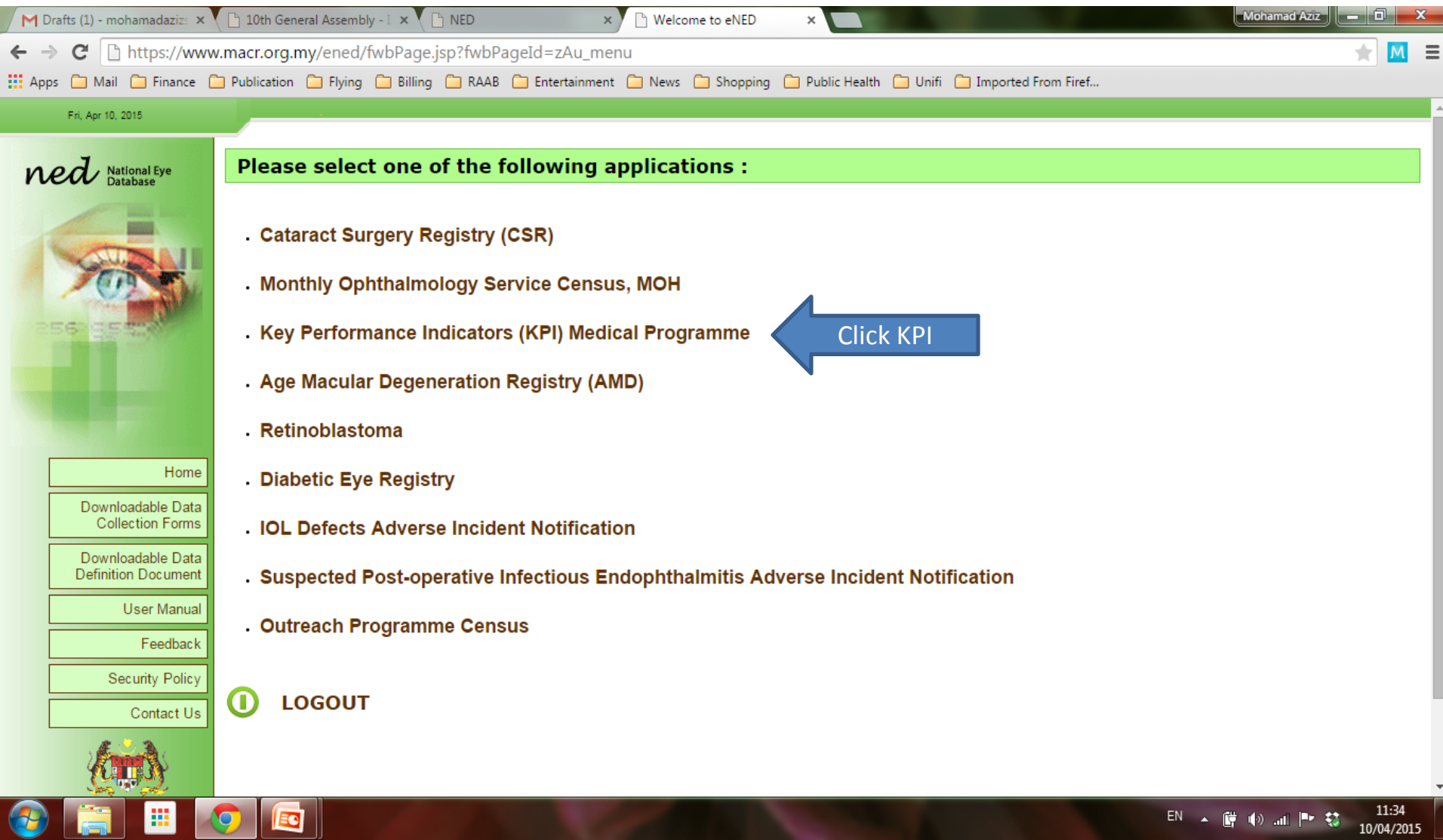
**Enter code** (indicated by a blue arrow pointing to the Auth Code input field)

**Navigation Menu:**

- Home
- Downloadable Data Collection Forms
- Downloadable Data Definition Document
- User Manual
- Feedback
- Security Policy
- Contact Us

**System Tray:** 11:32, 10/04/2015

# The first page you will see after you logged in



The screenshot shows a web browser window with the URL [https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=zAu\\_menu](https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=zAu_menu). The page title is "Please select one of the following applications :". The left sidebar contains the "ned National Eye Database" logo and a navigation menu with the following items: Home, Downloadable Data Collection Forms, Downloadable Data Definition Document, User Manual, Feedback, Security Policy, and Contact Us. The main content area lists the following applications:

- . Cataract Surgery Registry (CSR)
- . Monthly Ophthalmology Service Census, MOH
- . Key Performance Indicators (KPI) Medical Programme
- . Age Macular Degeneration Registry (AMD)
- . Retinoblastoma
- . Diabetic Eye Registry
- . IOL Defects Adverse Incident Notification
- . Suspected Post-operative Infectious Endophthalmitis Adverse Incident Notification
- . Outreach Programme Census

A blue arrow points to the "Key Performance Indicators (KPI) Medical Programme" option, with the text "Click KPI" written inside the arrow. At the bottom left of the main content area, there is a "LOGOUT" button with an information icon.

At the bottom of the browser window, the Windows taskbar is visible, showing the system tray with the date and time: 10/04/2015 11:34.































# You will arrive at this page...

5 5 : 4 2

## Key Performance Indicators (KPI)

aziz - (Manager)

[KPI List](#)
[Register KPI](#)
[User Admin](#)
[Site Management](#)
[Change Password](#)
[Home](#)
[Logout](#)

Ophthalmology Service Performance Measurement							
Measurement	Indicators		Blank Form	Guideline	Data Entry	Auto PDF	Graphical Report
PI 1		Percentage of patients with waiting time of $\leq 90$ minutes to see the doctor at specialist clinic					
PI 2	KPI 1	Percentage of diabetic patients who were given an appointment for first consultation within 6 weeks					
PI 3		Percentage of patients with waiting time of within 16 weeks for cataract surgery					
PI 4	KPI 2	NIA Rate of infectious endophthalmitis following cataract surgery (2 cases per 1000 operations)					
PI 5	KPI 3	NIA Percentage of patients with post-operative visual acuity of 6/12 or better within 3 months following cataract surgery in patients without ocular co-morbidity (850 cases 1000 operations)					
PI 6		Cancellation rate of patients listed for cataract surgery under local anaesthesia					
PI 7		Number of mortality/morbidity audits/ meetings conducted in the Department (in 6 months)					
Cataract Surgery Performance Monitoring							
		Rate of Posterior Capsular Rupture during Cataract Surgery					

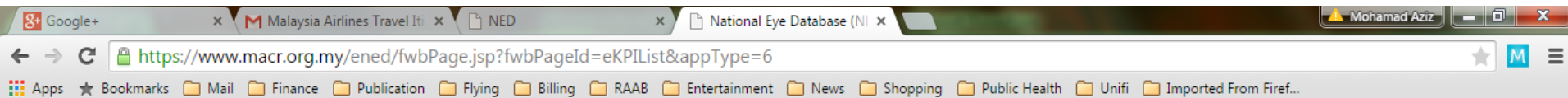
- PI = Performance Indicator
- KPI = Key Performance Indicator
- NIA = National Indicator Approach

\* You will need an Adobe Reader to access the PDF files. If you haven't got one, click here:





# You will arrive at this page...



## Key Performance Indicators (KPI)

aziz - (Manager)

- KPI List
- Register KPI
- User Admin
- Site Management
- Change Password
- Home
- Logout

### Ophthalmology Service Performance Measurement

Measurement	Indicators	
PI 1		Percentage of patients with waiting time of $\leq 90$ minutes to see the doctor at specialist clinic
PI 2	KPI 1	Percentage of diabetic patients who were given an appointment for first consultation within 6 weeks
PI 3		Percentage of patients with waiting time of within 16 weeks for cataract surgery
PI 4	KPI 2	NIA Rate of infectious endophthalmitis following cataract surgery (2 cases per 1000 operations)
PI 5	KPI 3	NIA Percentage of patients with post-operative visual acuity of 6/12 or better within 3 months following cataract surgery in patients without ocular co-morbidity (850 cases 1000 operations)
PI 6		Cancellation rate of patients listed for cataract surgery under local anaesthesia
PI 7		Number of mortality/morbidity audits/ meetings conducted in the Department (in 6 months)

### Cataract Surgery Performance Monitoring

Rate of Posterior Capsular Rupture during Cataract Surgery

- PI = Performance Indicator
- KPI = Key Performance Indicator
- NIA = National Indicator Approach

When it was first developed, NED listed 8 departmental KPIs including 3 NIAs. But due to some unavoidable processes over the years, 5 KPIs were removed (4 were downgraded to PI and became optional. PCR was removed from both KPI and NIA but was maintained as cataract surgery monitoring indicator). The sequence and numbering were not changed as we wanted to avoid confusion.

\* You will need an Adobe Reader to access the PDF files. If you haven't got one, click here:



# KPI

Google+ Malaysia Airlines Travel Iti NED National Eye Database (NI x Mohamad Aziz

← → ↻ <https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=eKPIList&appType=6> ★ M ☰

Apps ★ Bookmarks Mail Finance Publication Flying Billing RAAB Entertainment News Shopping Public Health Unifi Imported From Firef...

## Key Performance Indicators (KPI)

aziz - (Manager)

- KPI List
- Register KPI
- User Admin
- Site Management
- Change Password
- Home
- Logout

### Ophthalmology Service Performance Measurement

Measurement	Indicators	
PI 1		Percentage of patients with waiting time of ≤ 90 minutes to see the doctor at specialist clinic
PI 2	KPI 1	Percentage of diabetic patients who were given an appointment for first consultation within 6 weeks
PI 3		Percentage of patients with waiting time of within 16 weeks for cataract surgery
PI 4	KPI 2	NIA Rate of infectious endophthalmitis following cataract surgery (2 cases per 1000 operations)
PI 5	KPI 3	NIA Percentage of patients with post-operative visual acuity of 6/12 or better within 3 months following cataract surgery in patients without ocular co-morbidity (850 cases 1000 operations)
PI 6		Cancellation rate of patients listed for cataract surgery under local anaesthesia
PI 7		Number of mortality/morbidity audits/ meetings conducted in the Department (in 6 months)

### Cataract Surgery Performance Monitoring

		Rate of Posterior Capsular Rupture during Cataract Surgery
--	--	--

- PI = Performance Indicator
- KPI = Key Performance Indicator
- NIA = National Indicator Approach

You notice that recently developed individual KPIs are not included. This is because data management for these individual KPIs are not compatible with data entry process in NED.

\* You will need an Adobe Reader to access the PDF files. If you haven't got one, click here:



Windows taskbar icons: Internet Explorer, File Explorer, Start menu, Google Chrome, Microsoft Edge, Microsoft Word, Microsoft Excel, Microsoft PowerPoint

# KPI

Google+ Malaysia Airlines Travel Iti NED National Eye Database (NI x Mohamad Aziz

← → ↻ <https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=eKPIList&appType=6> ★ M ☰















Apps ★ Bookmarks Mail Finance Publication Flying Billing RAAB Entertainment News Shopping Public Health Unifi Imported From Firef...

## Key Performance Indicators (KPI)

aziz - (Manager)

- KPI List
- Register KPI
- User Admin
- Site Management
- Change Password
- Home
- Logout

### Ophthalmology Service Performance Measurement

Measurement	Indicators	Blank Form	Guideline
PI 1	Percentage of patients with waiting time of ≤ 90 minutes to see the doctor at specialist clinic		
PI 2	KPI 1 Percentage of diabetic patients who were given an appointment for first consultation within 6 weeks		
PI 3	Percentage of patients with waiting time of within 16 weeks for cataract surgery		
PI 4	KPI 2 NIA Rate of infectious endophthalmitis following cataract surgery (2 cases per 1000 operations)		
PI 5	KPI 3 NIA Percentage of patients with post-operative visual acuity of 6/12 or better within 3 months following cataract surgery in patients without ocular co-morbidity (850 cases 1000 operations)		
PI 6	Cancellation rate of patients listed for cataract surgery under local anaesthesia		
PI 7	Number of mortality/morbidity audits/ meetings conducted in the Department (in 6 months)		
<b>Cataract Surgery Performance Monitoring</b>			
	Rate of Posterior Capsular Rupture during Cataract Surgery		

- PI = Performance Indicator
- KPI = Key Performance Indicator
- NIA = National Indicator Approach

For each indicator, you can click "Guideline" to download added info regarding the indicator and guideline on how to collect data.

\* You will need an Adobe Reader to access the PDF files. If you haven't got one, click here:



Windows taskbar icons: Internet Explorer, File Explorer, Start menu, Google Chrome, Microsoft Word, Microsoft Excel, Microsoft PowerPoint



# KPI

Google+ Malaysia Airlines Travel Iti NED National Eye Database (NI x Mohamad Aziz

← → ↻ <https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=eKPIList&appType=6> ★ M ☰




















Apps ★ Bookmarks Mail Finance Publication Flying Billing RAAB Entertainment News Shopping Public Health Unifi Imported From Firef...

## Key Performance Indicators (KPI)

aziz - (Manager)

- KPI List
- Register KPI
- User Admin
- Site Management
- Change Password
- Home
- Logout

### Ophthalmology Service Performance Measurement

Measurement	Indicators	Blank Form	Guideline	Data Entry
PI 1	Percentage of patients with waiting time of ≤ 90 minutes to see the doctor at specialist clinic			
PI 2	KPI 1 Percentage of diabetic patients who were given an appointment for first consultation within 6 weeks			
PI 3	Percentage of patients with waiting time of within 16 weeks for cataract surgery			
PI 4	KPI 2 NIA Rate of infectious endophthalmitis following cataract surgery (2 cases per 1000 operations)			
PI 5	KPI 3 NIA Percentage of patients with post-operative visual acuity of 6/12 or better within 3 months following cataract surgery in patients without ocular co-morbidity (850 cases 1000 operations)			
PI 6	Cancellation rate of patients listed for cataract surgery under local anaesthesia			
PI 7	Number of mortality/morbidity audits/ meetings conducted in the Department (in 6 months)			
<b>Cataract Surgery Performance Monitoring</b>				
	Rate of Posterior Capsular Rupture during Cataract Surgery			

- PI = Performance Indicator
- KPI = Key Performance Indicator
- NIA = National Indicator Approach

5 indicators require manual data entry. Click the icon and enter data accordingly.

\* You will need an Adobe Reader to access the PDF files. If you haven't got one, click here:



# “Manual” data entry for 5 indicators

Browser tabs: Google+, Malaysia Airlines Travel It, NED, National Eye Database (NI)

Address bar: <https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=Kpi01List&fwbAction=List&appType=6>

Navigation: Apps, Bookmarks, Mail, Finance, Publication, Flying, Billing, RAAB, Entertainment, News, Shopping, Public Health, Unifi, Imported From Firef...

## Key Performance Indicators (KPI)

aziz - (Manager)

- KPI List
- Register KPI
- User Admin
- Site Management
- Change Password
- Home
- Logout

P11 ID:    
 Hospital:    
 Year:

**PI 1 - Percentage of patients with waiting time of ≤ 90 minutes to see the List**

No.	PI1 ID	Hospital	Year	(Jan - June) - N	(Jan - June) - D	(Jan - June) - %	(July - Dec) - N	(July - Dec) - D	(July - Dec) - %	GRAND TOTAL - N	GRAND TOTAL - D	GRAND TOTAL - %	
1	<a href="#">93</a>	Hospital Kangar	2015										
2	<a href="#">92</a>	Hospital Kuala Terengganu	2015	114	114	100				114	114	100	
3	<a href="#">91</a>	Hospital Selayang	2015	15337	17600	87.1				15337	17600	87.1	
4	<a href="#">90</a>	Hospital Taiping	2015	9390	9623	97.6				9390	9623	97.6	
5	<a href="#">89</a>	Hospital Sri Manjung	2015	3043	3043	100				3043	3043	100	
6	<a href="#">88</a>	Hospital Umum Sarawak	2015	12357	13660	90.5				12357	13660	90.5	
7	<a href="#">87</a>	Hospital Alor Setar	2014	624	731	85.4				624	731	85.4	
8	<a href="#">86</a>	Hospital Kuala Terengganu	2014	6280	7069	88.8	5118	6210	82.4	11398	13279	85.8	
9	<a href="#">85</a>	Hospital Batu Pahat	2014	1309	1670	78.4				1309	1670	78.4	
10	<a href="#">84</a>	Hospital Kangar	2014	2539	2632	96.5	1699	1742	97.5	4238	4374	96.9	

# KPI

Google+ Malaysia Airlines Travel Iti NED National Eye Database (NI x Mohamad Aziz

← → ↻ <https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=eKPIList&appType=6> ★ M ☰

Apps ★ Bookmarks Mail Finance Publication Flying Billing RAAB Entertainment News Shopping Public Health Unifi Imported From Firef...

## Key Performance Indicators (KPI)

aziz - (Manager)

- KPI List
- Register KPI
- User Admin
- Site Management
- Change Password
- Home
- Logout

### Ophthalmology Service Performance Measurement

Measurement	Indicators	Blank Form	Guideline	Data Entry
PI 1	Percentage of patients with waiting time of ≤ 90 minutes to see the doctor at specialist clinic			
PI 2	KPI 1 Percentage of diabetic patients who were given an appointment for first consultation within 6 weeks			
PI 3	Percentage of patients with waiting time of within 16 weeks for cataract surgery			
PI 4	KPI 2 NIA Rate of infectious endophthalmitis following cataract surgery (2 cases per 1000 operations)			
PI 5	KPI 3 NIA Percentage of patients with post-operative visual acuity of 6/12 or better within 3 months following cataract surgery in patients without ocular co-morbidity (850 cases 1000 operations)			
PI 6	Cancellation rate of patients listed for cataract surgery under local anaesthesia			
PI 7	Number of mortality/morbidity audits/ meetings conducted in the Department (in 6 months)			

### Cataract Surgery Performance Monitoring

Rate of Posterior Capsular Rupture during Cataract Surgery

- PI = Performance Indicator
- KPI = Key Performance Indicator
- NIA = National Indicator Approach

3 indicators (including PCR) automate data from CSR. So you don't have to enter data. But you have to make sure CSR data entry is complete.

\* You will need an Adobe Reader to access the PDF files. If you haven't got one, click here:



Windows taskbar icons: Internet Explorer, Google Chrome, Microsoft Word, Microsoft Excel, Microsoft PowerPoint

# KPI

Google+ Malaysia Airlines Travel Iti NED National Eye Database (NI x Mohamad Aziz

https://www.macr.org.my/ened/fwbPage.jsp?fwbPageId=eKPIList&appType=6

Apps Bookmarks Mail Finance Publication Flying Billing RAAB Entertainment News Shopping Public Health Unifi Imported From Firef...

## Key Performance Indicators (KPI)

aziz - (Manager)

- KPI List
- Register KPI
- User Admin
- Site Management
- Change Password
- Home
- Logout

### Ophthalmology Service Performance Measurement

Measurement	Indicators	
PI 1		Percentage of patients with waiting time of $\leq 90$ minutes to see the doctor at specialist clinic
PI 2	KPI 1	Percentage of diabetic patients who were given an appointment for first consultation within 6 weeks
PI 3		Percentage of patients with waiting time of within 16 weeks for cataract surgery
PI 4	KPI 2	NIA Rate of infectious endophthalmitis following cataract surgery (2 cases per 1000 operations)
PI 5	KPI 3	NIA Percentage of patients with post-operative visual acuity of 6/12 or better within 3 months following cataract surgery in patients without ocular co-morbidity (850 cases 1000 operations)
PI 6		Cancellation rate of patients listed for cataract surgery under local anaesthesia
PI 7		Number of mortality/morbidity audits/ meetings conducted in the Department (in 6 months)
<b>Cataract Surgery Performance Monitoring</b>		
		Rate of Posterior Capsular Rupture during Cataract Surgery

- PI = Performance Indicator
- KPI = Key Performance Indicator
- NIA = National Indicator Approach

All indicators allow you to download results in PDF.

3 indicators even allow you to download results in graphs for comparison and trending!

Auto PDF	Graphical Report

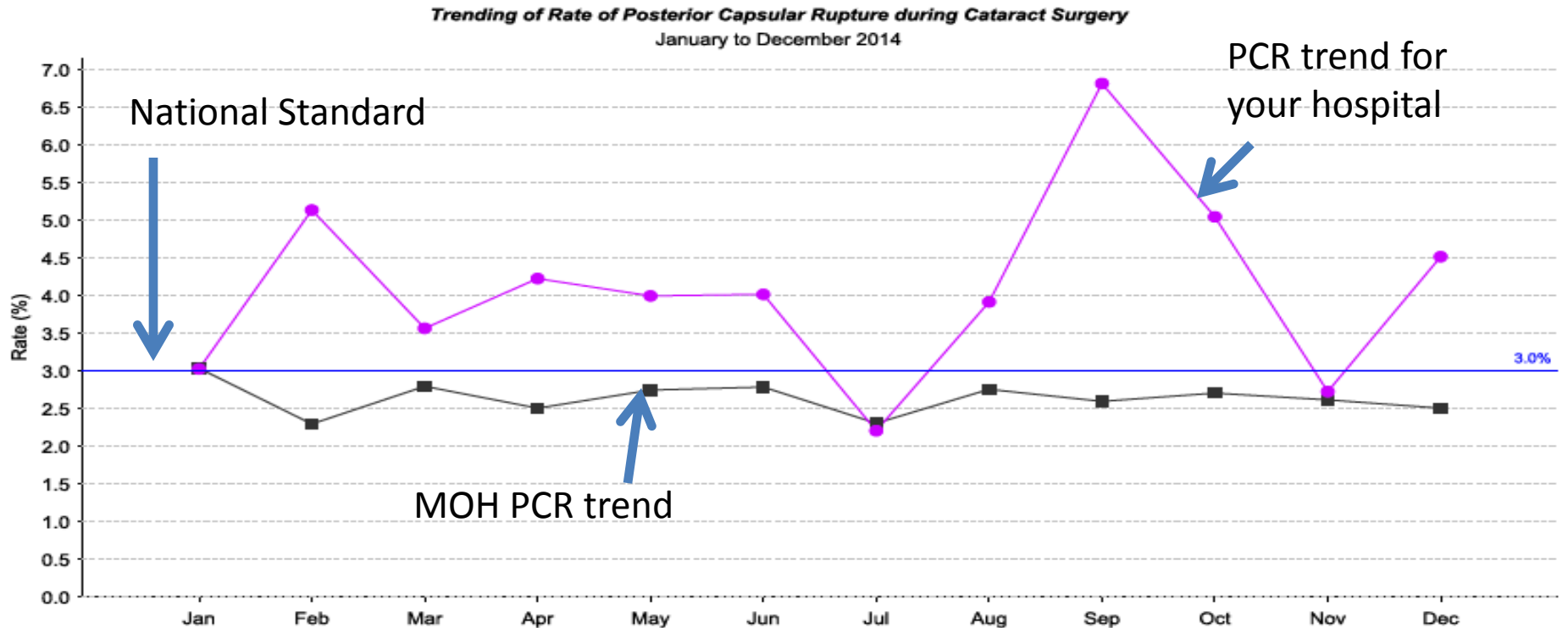
\* You will need an Adobe Reader to access the PDF files. If you haven't got one, click here:



# Example: PCR trending

Cataract Surgery Performance Monitoring  
DEPARTMENT: OPHTHALMOLOGY

Indicator : Rate of Posterior Capsular Rupture during Cataract Surgery  
Standard : 3% ( 30 cases per 1000 cataract surgery)







Please try  
yourself and  
explore !



# Good Luck



To be continued...