

# Accessing AIR using Provider Digital Access (PRODA)

<u>STEP 1 -</u> Go to the Health Professionals Online Services (HPOS) home page <u>https://www.humanservices.gov.au/health-professionals/services/medicare/hpos</u> and click 'Log on'

Log on Log on to HPOS.	>	Register Register for HPOS.	Services You can access a variety of services, payments and programs using HPOS.	>
Resources Tools, information and other services we offer to help you with the HPOS.	>			

STEP 2 - Scroll down the page and click on the PRODA tab.

### Access HPOS and Digital Health Services with PRODA or PKI



<u>STEP 3 -</u> You will then be prompted to the PRODA Login page. Enter the Username and Password you created in the registration process and click on the **Login** button on the left bottom corner of the page.

If you have already created your PRODA account, login below.

	Username	
$\rightarrow$	Enter username	
	Forgot your username?	
	Password	
$\rightarrow$	Enter password	<u>Show</u>
	Forgot your password?	
C	Login	



<u>STEP 4 –</u> A verification code will be sent to your nominated device (email/SMS). Checked your nominated device and enter the code in the **Verification code** field then click **Submit**.

require 2-step verification due to the sensitive nature of the information our services hold. Enter a passcode from your SMS below. ou cannot access your SMS at this time we can send a code to a backup channel instead.		Help 👔
erification code Resend code Submit	Ve require 2-step verification due to the sensitive	anature of the information our services hold. Enter a passcode from your SMS below.
Resend code	you cannot access your SMS at this time we can	n send a code to a backup channel instead.
	Rese	end code

<u>STEP 5 – The Terms and Conditions page will be displayed</u>. Scroll down and click the **I agree** button

By clicking the "I Agree" b	putton, you acknowledge that you have read and accept the above Terms and Conditions.
I agree	I decline

STEP 6 - The HPOS Main menu will be displayed.

Practice staff who had been delegated to do AIR can access AIR using their own PRODA account, but will need to click on '**My Providers'** button on the top right corner of the page and select the provider / the organisation they would like to act on behalf of.



STEP 7 - Click on 'My programs' menu.





#### STEP 8 - Click on the 'Australian Immunisation Register (AIR)' menu in the top left-hand corner.

My programs				My providers
My program	S			
	Australian Immunisation Register (AIR)	Authorised Recipient	Centrelink Forms	Department of Veterans' Affairs (DVA)
	Healthcare Identifiers and My Health Record	PBS Authorities	PBS Stationery Online Ordering	Practice Incentives Program (PIP)
	Prescription Shopping Patient Summary reports	Therapeutic Goods Administration (TGA) Recall/Hazard Alerts	Workforce Incentive Program (WIP) - Doctor Stream	Workforce Incentive Program (WIP) - Practice Stream

<u>STEP 9</u>- When you successfully log in, the Main menu page will appear (see below). From here you can access and check the immunisation history of a child, request immunisation reports, record and submit immunisation encounters, view your claims summary and most recent statement of payment, update your contact details and contact AIR using the secure email function.



Main Menu	Welcome
Claims	The AIR is a national register that records all vaccinations given to individuals of all ages, including National Immunisation Program (NIP) schedule vaccines, flu, shingles and travel vaccines. The AIR is administered under the <i>Australian Immunisation Register Act 2015</i> and AIR data is protected under the <i>Privacy Act 1988</i> .
ldentify Individual	Please ensure you are aware of the Terms and Conditions of accessing this site.
	Click on a Main Menu link to:
Payment Statements	Claims - Upload claims or view details of claims submitted to the AIR     Identify Individual - Search an Individual to:     View immunisation history information
Provider Menu	<ul> <li>Record immunisation encounters</li> <li>View and/or print an immunisation history statement</li> <li>Submit an immunisation medical exemption (if you are an eligible vaccination provider*)</li> </ul>
Reports	<ul> <li>Record a catch up schedule</li> <li>Edit an immunisation encounter where incorrect details were previously submitted (if you submitted the original record to the AIR)</li> </ul>
	Payment Statements - View your payment and financial statements
	<ul> <li>Provider Menu - Review location, email and address details</li> <li>Reports - Generate and view immunisation reports. This includes a variety of statistical and detailed reports.</li> </ul>
	* See the agency's website or the AIR education resources to learn more about immunisation medical exemptions.

#### **GUIDE TO MAIN MENU:**

<u>Claims Menu</u> Allows you to upload claims or view details of claims submitted to the AIR

<u>Identify Individual</u> Allows you to view an individual's immunisation history information; record immunisation encounters; view and/or print an immunisation history statement; submit an immunisation medical exemption (if you are an eligible vaccination provider); record a catch up schedule; edit an immunisation encounter where incorrect details were previously submitted (if you submitted the original record to the AIR)

<u>Payment Statement Menu</u> Allows you to view your immunisation encounter payment and financial statement for the month selected

Provider Menu Allows you to review and update your location, email and address details

<u>Reports Menu</u> Allows you to generate and view immunisation reports. This includes a variety of statistical and detailed reports

### **Recording Immunisation Encounter**

<u>STEP 1</u> - In the Main menu, click on 'Identify Individual' and select 'Record Encounter' in the drop-down menu.

<u>STEP 2</u> - Enter the individual's Medicare Number and IRN (Individual Reference Number) if possible <u>OR</u> enter individual's Surname, First Name & DOB (dd/mm/yyyy)

- Click the 'Search' button.



Main Menu	An individual must be identified to use this option.	
Claims	Identify Individual	
ldentify Individual	Medicare Number	
Identify Individual	IRN	
Individual Details	Surname	
Record Encounter	First Name	
Update Encounter	Date of Birth	dd/mm/yyyy
Medical Contraindication	Postcode	
Natural Immunity		
Payment		Search Clear

STEP 3 - If the individual's details are matched, the 'Individual details' are displayed. You can update the individual's Indigenous status and notify AIR if a letter sent to parent/guardian has been returned from the sender by ticking the appropriate box, then click 'Save' button.

Update Individual	
Indigenous Status Notification of an Indigenous status is voluntary. The existing status recorded on the AIR will not be updated if no selection is made. Return Mail Indicator Notify returned mail for this individual	<ul> <li>Indigenous</li> <li>Non-indigenous</li> </ul>
	Save

- On this page, you also can view Planned Catch up, Due Details and Immunisation Details by clicking on the drop-down arrow on the right end.

- To view more of the Immunisation History, CLICK

10 25 50 100

Click <sup>10</sup> <sup>25</sup> <sup>50</sup> <sup>100</sup> to view the numbers of encounter displayed per page.
You can now sort by Date/Vaccine/Brand/Status/Reason Code by clicking on the arrow next to its column.

- Click on Immunisation History Statement box to print the statement.



n Code 🔺

Due Details					
Dise	ease	Dos	e	Due Date 🔺	
There are no	vaccinations due for thi	s individual.			
•					
mmunication	Details				
mmunisation	Details				
mmunisation H	listory			Immunisation Hi	story State
Date 🔺	Vaccine/Brand [Batch Number] 🔺	Dose	School Name 🔺	Status 🔺	Reaso
04 Jan 2002	H-B-Vax II	в		Accepted	
03 Mar 2002	Infanrix HepB	1		Accepted	
03 Mar 2002	Oral Polio	1		Accepted	
03 Mar 2002	PedvaxHIB	1		Accepted	
05 May 2002	Infanrix HepB	2		Accepted	
05 May 2002	Oral Polio	2		Accepted	
05 May 2002	PedvaxHIB	2		Accepted	
30 Jun 2002	Infanrix HepB	3		Accepted	
30 Jun 2002	Oral Polio	3		Accepted	
12 Jan 2003	MMRII	1		Accepted	

<u>STEP 4</u> - To record encounter, click 'Record encounter' on the left-side column and complete the relevant information in the 'New encounter details' section.

- Click on the drop-down arrow in the box next to 'Who performed this Immunisation Encounter': If the Doctor working in the practice performed the immunisation encounter, select 'I performed this encounter'. If the encounter was performed by another vaccination provider in Australia, select 'Another provider performed this encounter in Australia'. If the encounter was performed outside Australia then select 'The encounter was performed overseas'.

1 2 3 »

**Planned Catch up** 

Catch up schedule expired on 04 January 2007

50 100

10 25



- Click on the drop-down arrow in the box next to 'Schedule' and select appropriate age tab, ie. 'Birth', '2 months', '4 months', '6 months', '12 months', '18 months', '4 years', 'Adolescent' or 'Other'.
- Type vaccine or antigen in the 'Vaccine/Brand' box to select the vaccine/brand performed. Enter Batch Number in the Batch Number box (optional). The vaccine dose is required for vaccination catch-up only. Click on the drop-down arrow in the box next to 'Dose' and select the dose for the vaccine.
- To add another vaccine/brand for the same encounter, click on the **Plus (+) sign** at the end of the row.

New Encounter		
Who performed this Immunisation Encounter *	This encounter was performed overseas	
Schedule *	Other	
Date of Service *	17/05/2018	
pisode Details		
Vaccine/Brand *	Batch Number Dose *	(+)
Infanrix Hexa		
Infanrix Hexa Antigens Diphtheria Hepatitis	s B) (HIB Schedule A) (Pertussis) (Poliomyelitis) (Tetanus)	$\cup$

- After all vaccines have been entered, click the 'Add' button.

<u>STEP 5</u> - The following screen will appear. Check the details and if correct click 'Submit' button. \*\*Note: On this stage, you can edit or delete an encounter before submitting by clicking on the appropriate icon as below.

Record Enco	unter					
Date	Vaccine/Brand [Batch Number]	Schedule	Dose	Performed by	Practice Location Acti	ions
17 May 2018	<u>Infanrix Hexa</u> [A70CD147C]	Other	2	Overseas		Ī
		Add Ar	nother	Submit		



<u>STEP 6</u> - After submitting, the confirmation screen will appear saying that your vaccination details entered have been received successfully with the **Claim ID**.

**\*\*Note:** It may take a few hours for the newly recorded encounter to be displayed in the individual's Immunisation History and the Update Encounter page for editing.

Confirmation	
Success! The vaccination details entered for	have been received successfully.
Claim ID -	

# Updating an encounter

You can still modify immunisation encounters after they have been submitted. To do so, select **'Update encounter'** on the left-side column and click onto the **pen icon** under **'Action'** column belonging to the Vaccine/Brand you wish to edit.

Individual Details								
Record Encounter	Update En	counter						
Update Encounter							Clear	Filters
Medical Contraindication	Date of _ Service	Vaccine/Brand [Batch Number]	Schedule	Dose	School Name	Status	Reason Code	Action
Payment Statements								$\sim$
Provider	10 Nov 2014	<u>Gardasil</u> [J010758]	-	3	[2165/43488] Patrician Brothers' College Fairfield	Accepted		
Reports	24 Jun 2014	Gardasil [J004276]		2	[2165/43488] Patrician Brothers' College Fairfield	Accepted		
Secure Email	02 Apr 2014	Gardasil	-	1	[2165/43488] Patrician	Accepted		
Lockup		[J007808]			Brothers' College Fairfield			

The following screen will appear. You can modify the clear fields e.g. Date of Service, Schedule, Vaccine/Brand and Dose only. Then click **'Update'** button.

Edit Encounter	
Submitted Date	18 May 2017
Who performed this Immunisation Encounter $st$	I performed this encounter
Practice Location *	×
Date of Service *	17/05/2017
Episode Details	
Schedule * Other • Va	accine/Brand * Priorix-Tetra Dose * Dose 4 *
	Antigens Measles Mumps Rubella Varicella
	Update Cancel



# Downloading 10A Due/Overdue Report in AIR

STEP 1 - Log on to AIR Main Menu (please refer to 'Accessing to AIR' steps above).

<u>STEP 2 –</u> To access the 10A report of overdue patients in your practice, click on the '**Reports'** menu. Select the '**AIR010A-Due/Overdue Report - by Immunisation Practice'** 'report.

Main Menu	Reports				
Claims	Request Modify View				
Identify Individual	Request a Report Please select a report you require.				
Payment	Required Report				
Statements	O AIR001A-Number of Individuals Registered with AIR	More info 💙			
Provider Menu	O AIR002A-Number (or percentage) of individuals who have received valid vaccinations More info 💙				
Peparts	AIR010A-Due/Overdue Report - by Immunisation Practice	More info 🂙			
Reports	O AIR011B-Due/Overdue Report - by Vaccination Provider	More info 🌱			
	O AIR021A-Due/Overdue Report - by Medicare GP	More info 🂙			
	Next				

<u>STEP 3 –</u> Click 'Next' button. The 'Request New Report' page will appear.



### **Request New Report**

AIR010A - Due/Overdue Report - by Immunisation Practice

Report Criteria	All fields marke	d with <b>*</b> are mandatory
Name of Report * 1	Overdue immunisation - Sep 2020	
Frequency of Report * 2	Once Only Weekly Monthly Quarterly	
Report End Date *	Enter an end date to cease production of Monthly report, e.g. 20/08/2014	
Output of Report *	Comma Separated (single file) Comma Separated (multiple files) Help	
PIP Practice Id * 5	Enter a PIP Practice Id.	
MBS Service Period *	Include Individuals seen for a MBS service within the practice in the past: 3 months Help	
Immunisation Status *	Select the immunisation status of individuals to include in this report.           All Individuals         Not Fully Immunised Individuals	
Due/Overdue by Disease *	Include individuals overdue for:	
Age Selection Range * 9	By Birth Date     By Age       The maximum Age Selection Range permitted is 10 years.       From       Birth   To 10 year	
Include individuals who have	<ul> <li>Select all</li> <li>A Natural Immunity recorded.</li> <li>A Medical Contraindication recorded.</li> <li>Made a single visit to the practice during the MBS service period.</li> <li>Returned mail.</li> </ul>	
Output settings		
A separate file will be produced Only one file will be produced v	for each section identified below only when options have been selected f vith each individual's personal details when all options of each section are	rom that section. not selected.
Details to include Help~	Individual details	0/9 selected 💙
	Overdue details	0/1 selected 💙
	Vaccine details	0/1 selected 💙
	Exemptions	0/2 selected 💙
	11 <b>(</b> R	equest Report Back



#### **STEP 4** – Complete the **Report Requirements** form:

- 1. Name of Report Give a name for the report e.g. Overdue Immunisation << Drs Name>>
- 2. **Frequency of Report** How often you would like to receive the report. We recommend *monthly*, this will mean that you only need to request the report once and AIR will automatically send you a report every month.
- 3. **Report End Date -** End report date is when you want AIR to stop sending you the report. E.g. if you complete this form on the 12th January 2016 and select the monthly frequency option, you will receive the report on the 12th of every month up until the report end date you select (Date ranges not required when using the *once only* frequency)
- 4. Output of report select Comma Separated (single files) or Comma Separated (multiple files) so that the report will be produced in a CSV file that can be opened in Excel.
- 5. **PIP Practice ID** Enter your Practice Incentive Payment (PIP) Number.
- 6. **MBS Service Period** Includes patients seen for MBS service at your practice e.g. in the last 24 months.
- 7. Immunisation Status We recommend Not Fully Immunised Individuals.
- 8. Date/Overdue by Disease We recommend All diseases.
- Age Selection Range Select the age range for the individuals you wish to include. The default age range is from *Birth* to 10 years. Please be noted that the Age Breakdown Range for the 10A Report is from Birth to 80+ years.
- Include individuals who have If you wish, you could select to include individuals of the ranges of conditions e.g. Natural immunity recorded, a Medical contraindication recorded, a single visit to the practice during the MBS service period and/or an Individual has returned mail to be included in the report.
- 11. Click 'Request Report' button at the bottom of the window to complete the request.

<u>STEP 5 –</u> If your report has gone through to AIR successfully the below message will appear. It will take half an hour for AIR to produce the report and make it available on the secure site.

Any messages relating to the Request Report process will appear below

Your request for the report has been successful. This report will be displayed on the View Reports page once it has been produced.

#### NOTE/

i

- If you have more than one GP at your practice you will need to log on to AIR using Organisation PRODA when requesting the 10A Report

- Refer to <u>Accessing AIR Using PRODA For Organisation User Guide</u> for more information on How to register organisation, How to add and link AIR to your organisation and How to access the AIR on behalf of your organization

- Also refer to <u>Managing Nominee Delegation</u> for how to nominate a member of your organisation to interact with the service provider on your behalf



### **Modifying reports**

In the Reports menu, select 'Modify' tab.

A list of the reports you have previously requested will appear. Select the report you would like to modify, then select the **Modify** link from the **Options** menu to modify a report. You may delete a report by selecting the **Remove** link from the **Options** menu

Reports	;						
Request	: Modify	View					
Modify I Listed below a report by selec	Reports re the reports you have pre cting the Remove link from	eviously requested. Select t the Options menu.	he Modify link from	the Options i	menu to modif	y a report. You	may delete a
Report number	Title			Frequency	Requested <del>•</del>	Produced	Options
All	All			All	dd/MM/	dd/MM/	Clear filters
AIR010A	Due/Overdue Report - by	Immunisation Practice		Quarterly	03/07/2017	01/04/2018	Options

# Viewing reports

In the Reports menu, select 'View' tab.

A list of the reports you have previously requested will appear. Select the report you would like to modify, then select the **Recall** link from the **Options** menu to download a report. You may delete a report by selecting the **Remove** link from the **Options** menu

Reports	5						
Request	t Modify	View					
View Re Listed below a menu. You ma	<b>ports</b> are the reports you have p ay delete a report by selec	previously requeste	d. You may download a repo hk from the Options menu.	ort by selecting	the Download	/Recall link fro	m the Options
Papart		-	·				
Number	Title			Frequency	Requested	Produced •	Options
All	<b>Title</b>			<b>Frequency</b> All	Requested	Produced ▼ dd/MM/	Options Clear filters

If you chose 'Comma Separated (multiple files}' as Output of the Report when requesting the report:

- i. Once the report is downloaded, click 'Open' to see all files in a new window.
- ii. The zip file contains the following files:



Name		Size	Packe	Modified
BP200925.t	xt	8 610	2 003	2020-09
IH200925.c	sv	103	94	2020-09

**BP file:** An explanatory document of the report; **IH file:** Details of individuals;

- iii. Open the **IH file** and select '**File**' > '**Save As**' and save in a folder on your pc (We suggest creating a new folder titled 'AIR Overdue Lists')
- iv. Rename the file: e.g. **File name:** the current year, month, **Save as type**: select Excel Workbook (\*.xlsx) e.g. "2017January.xlsx"
- v. Open the saved copy, and right click on the first date in the column titled 'Date due', select 'Sort by Newest to Oldest'
- vi. Your overdue list is now sorted by the most recently overdue at your practice
- vii. Work through your list, comparing it with your practice software patient information:
  - If the patient has had the immunisation/s they are listed as overdue for, notify AIR via regular means
  - If the patient has not had the immunisation/s they are listed as overdue for, use the recall/reminder system

#### **Providers registered at Practice location/s**

The 10A report lists the vaccination providers who were registered within your practice during MBS services period. If you have any enquiries regarding the providers' information, please contact the **Practice Incentives Program (PIP) 1800 222 032**.

#### Further support:

If you are having difficulty with AIR online access or these reports, please call the **AIR online** helpdesk 1300 650 039.

# Viewing Claims Summary

<u>STEP 1</u> – Select 'Claims Menu' then 'Claims Summary'. Type the 'Receipt date' range within the last 3 months. Click on 'Search' and the summary of claims you've submitted online through the AIR will display.





Search Results		
Receipt Date	Number of Claims	Details
24/09/2020	1	View
19/09/2020	1	View
14/09/2020	2	View
13/09/2020	1	View
11/09/2020	2	View
07/09/2020	1	View
05/09/2020	3	View
31/08/2020	1	View
29/08/2020	1	View
24/08/2020	1	View
« <b>1 2</b> »		<b>10</b> 25 50 100

#### STEP 2 - Click on the View link next to the Receipt Date you want to view the claim.

### Uploading Internet Data Interchange (IDI) Claims

STEP 1 - Select 'Claims Menu' then 'Claims Upload'

<u>STEP 2</u> – Click on the '**Browse**...' button to locate and attach a file. Once the file name has been entered, click on the '**Upload'** button and your immunisation data will be uploaded to the Immunisation Register.

Claims will be available for viewing via the Claims Summary facility the following day.

Main Menu	Claims Upload				
Claims	This facility allows you to upload immunisation data to the Immunisation register. IDI (Immunisation Data Interchange) files uploaded using this facility must be formatted using the approved IDI format				
Claims Summary	Only one file can be uploaded at a time.				
Claims Upload	Attached File				
ldentify Individual	Drop a file to attach				
Payment Statements	Browse				
Provider Menu	Upload				
Reports					
	Authorised by: Director of Innovation and Partnerships				



**IMPORTANT NOTE/** An IDI claim file must follow a specific format and consists of the following four sections:

- 1. **Transmission Header:** There can be only one Transmission Header record. It contains details of number of claims, date of transmission and Customer Id. This sections start is identified by: \*T.
- 2. Claim Header: There should be at least one or more Claim Header records. It contains the details of the Claim Id, Receipt Date, Information provider and Servicing provider. This sections start is identified by: \*C.
- Encounter Voucher: Encounter Voucher record may occur multiple times. It contains individual details such as Medicare number, name, date of birth and date of service. This sections start is identified by: \*V.
- 4. **Episode:** Episode record may also occur multiple times. It contains the details of the immunisation, vaccine and dose. This sections start is identified by: \*E.

# Viewing Recent Statement of Payment

To view the Immunisation Payment Statement for the month selected, select **Immunisation Payment Statement** under **Payment Statements**, choose the **provider location** for the statement you want to view and '**Statement Date**' then click on '**View PDF**' or '**View CSV**' link.

Claims	Immunisation payment statements						
Identify Individual	The immunisation payment statement contains information about your Australian Immunisation Register (AIR) immunisation encounter payments for the month selected.						
Identify Individual							
Individual Details			Clear filters				
Record Encounter	Provider Number - Statement Date -	Immunisation payment statement	Immunisation notifications reconciliation report				
Update Encounter							
Payment Statements	22 Jun 2017	View PDF	View CSV				
Immunisation Payment Statement	20 Apr 2017	View PDF	View CSV				
Immunisation Financial Statement			10 25 50 100				

To request Immunisation Financial Statement for a financial year, select 'Immunisation Financial Statement' tab under 'Payment Statements', select Provider Number and Financial Year then click on 'Request Statement' button.



Claims	Immunisation financial statement				
Identify Individual	Request statement				
Identify Individual	The immunisation financial statement contains info encounter payments for the financial year.	ormation about your Australian Immunisation Register (AIR) immunisation			
Individual Details	Provider Number Pleas	se select			
Record Encounter	Financial Year Pleas	e select			
Update Encounter					
Payment Statements	Requ	lest Statement			
Immunisation Payment Statement					
Immunisation Financial Statement					

You can also choose to receive your payment statements 'Online' or 'Paper' at any time. Select **Statement Preferences** on the left column, tick the preferred option then click the **'Confirm'** button.

Claims	Immunisation payment statement preferences					
Identify Individual	You can stop receiving any time.	g paper based statement by sele	cting the online option. You can change your statement preferences a	эt		
Identify Individual	Provider number	Provider address	Preferences			
Individual Details			Dnline   Paper			
Record Encounter			Cance			
Update Encounter						
Payment Statements						
Immunisation Payment Statement						
Immunisation Financial Statement						
Statement Preferences						

# **Updating Provider Details**

To stay informed, please ensure that your contact details are up to date. From this screen you can elect to alter your mailing address by selecting those for another location. You can also change your email settings. Your information will not be released to any other parties.

### STEP 1 – In the Main Menu, select 'Provider Menu'

	Main Menu	Provider Details
	Claims	<i>i</i> To stay informed, address by select
	ldentify Individual	any other parties
	Payment Statements	
4	Provider Menu	
	Reports	



<u>STEP 2</u> – Click on 'Update' button next to 'Current Mailing Address' or 'Email Address' to update your mailing address or email address. If 'Email notifications' set to 'Yes' you will be notified when your reports are available.

**NOTE/** Updating your contact details in AIR will not update your details in HPOS. If you cannot find your provider location in AIR or you would like to add a new location, you should update your provider location details in HPOS.

### Contacting AIR using the secure email function

You can correct or modify immunisation details, for example, a vaccination date of service or vaccine brand name already in AIR using the HPOS Messages function in HPOS to access your mailbox or your organisations(s) mailbox.

Refer to the <u>Using the HPOS Messages</u> to find more information.

**NOTE/** Do **NOT** use the secure email function to submit new or confirm existing immunisation details. Submit new immunisation details through the **Record Encounter** function and confirm details using the **Identity** function or by requesting an AIR report.

# REFERENCES

Department of Human Services. 2018. Health Professionals Online Services. [ONLINE] Available at: <u>https://www.humanservices.gov.au/organisations/health-professionals/services/medicare/hpos</u>. [Accessed 25 September 2020].