

# Best Start Pregnancy Tool

## Indici End User Guide

### Best Start background

Best Start Kōwae (modules) provides tools which enable consistent comprehensive best practice assessment of health and wellbeing needs of a hāpū māmā and her pēpī throughout the pregnancy utilising appropriate enquiry, investigations, management and referral to support services.

The Best Start Pregnancy tool has been developed by considering what constitutes best practice in pregnancy care in New Zealand and consolidates this in one tool.

Wellbeing, equity and child health are key government priorities.

The point of difference for the Best Start Pregnancy tool is the built-in decision support, enabling identification of issues and early intervention, which ultimately will improve health and wellbeing outcomes for hāpū māmā and pēpī.

Generation2040 proposes a focus on pēpī Māori, from conception (or confirmation of pregnancy Māori), maternal antenatal care to the 6-week pēpī assessment and helping māmā access existing services.

### About this manual

This manual explains Best Start functionality for end users and describes how to use the workflow to capture data for assessment of hāpū māmā.

### Glossary

Abbreviation	
EDD	Estimated Date of Delivery
EPAT	Early Pregnancy Assessment Tool
LMP	Last menstrual period
PMS	Patient Management System
URL	Uniform resource locator, a protocol for specifying addresses on the internet

### Document Control

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Best Start End User Guide	V0.1	Bronnie Farnell	Author	29/09/2020
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## Introduction and overview

The workflow expectation is that the Best Start form will follow common practice , with embedded tools to support decision making activities and provide information on best practice presented in support of an assessment response.

## Access

Best Start Assessment tool is embedded into the PMS, the tool is available via secure URL for end users without access via PMS.

PMS	Tool access
Indici SEHR	Yes
Medtech 32	Yes
Medtech Evolution	Yes
My Practice	Yes
Intrahealth-ProfileMac	Browser version
I'health Profile Windows	Browser version
Best Practice VIP Gold	Yes

## Functionality

The tool has the following functionality:

- Is a web form embedded into the Practice Management System (PMS)
- It can be parked and resumed at another time
- The tool requires a consent to view after the initial submission
- The user interface is a set of 'tabs' to enable easy workflow navigation
- The form writes back to the PMS system.
- The workflow provides access to evidence-based decision support including links to HealthPathways

## Decision Support

The tool provides a means to build algorithm for decision support, used for complex assessments facilitating early intervention for best practice in primary care.

## Icons

The icons serve as a "traffic sign" leading the user to a function, data file or recommendation.

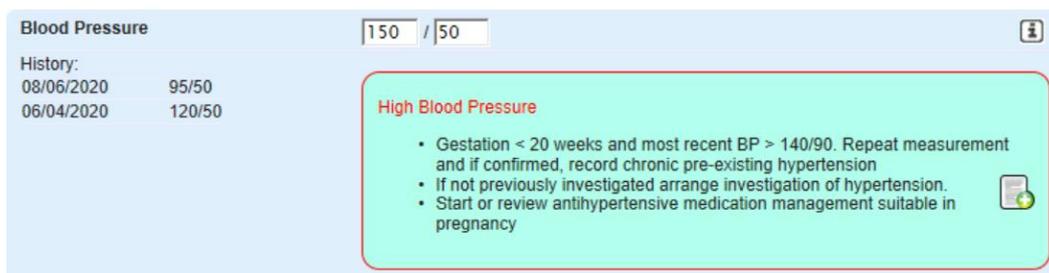
Icon	Description
	Decision support information detail relating to the question
	Launches Health Pathways or practice equivalent assessment, management information guide
	Launches community pharmacy guide on safe medication practice in pregnancy
	Patient handout on ante natal blood tests
	Refresh the current text with any updates you've made within the PMS since launching the form e.g. immunisations
	Opens website for additional information

## Workflow

Navigation is via a set of tabs, within each tab are question sets, responses are captured using a checkbox, radio button (yes/no) or free text fields (max. characters 125). On the **next** command the next tab opens, the ability to move between tabs is at user discretion. Once questions have been answered the tab is ticked ✓, categories with outstanding questions to be answered are denoted by **X**, unanswered questions within the tab are displayed in **red** font.

Note that very few fields are mandatory – the minimum requirement is to record the mother's name, NHI, ethnicity, date of birth, and estimated date of delivery.

Decision Support is triggered by answers to questions, the support can be recommendations which land in the Actions tab, the recommendations appear in an aqua filed alongside or below the question



**Blood Pressure**  /

History:

08/06/2020	95/50
06/04/2020	120/50

**High Blood Pressure**

- Gestation < 20 weeks and most recent BP > 140/90. Repeat measurement and if confirmed, record chronic pre-existing hypertension
- If not previously investigated arrange investigation of hypertension.
- Start or review antihypertensive medication management suitable in pregnancy

Recommendations are supported by links to Healthpathways. The information fields provide an additional layer of support as to why the questions have been asked.

#### PMS Assessment form feed

Best Start writes back to the PMS the following

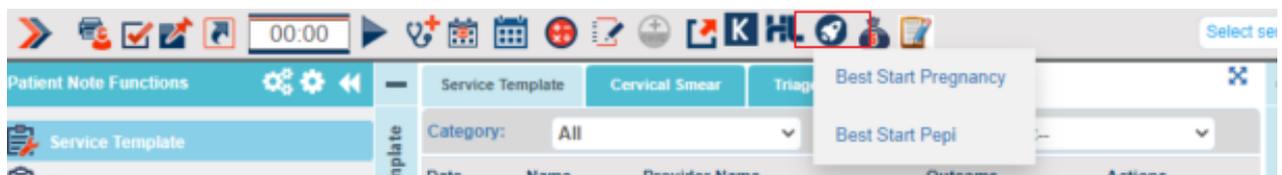
- A short consult note confirming that a Best Start Pregnancy Assessment has been completed.
- The LMP and EDD
- Height
- Weight
- Screening (which can be interpreted by Patient Dashboard and other tools e.g. Mōhio)
- Blood Pressure
- Recall for Pertussis
- Recall checking on midwife engagement
- Recall for Fluvax.

The form, as completed, is saved to "Forms". The formatted assessment is saved to the patient's outbox. PMS integrates to Best Start with

- Medical history
- Medications
- Height
- Weight
- BP history
- Immunisations
- Recalls

#### To start an assessment

1. Click on the Rocket icon on the toolbar
2. Select Best Start, the form will now launch
3. Click ok to start a new form



The form will auto populate with data from the PMS; demographics, medical conditions, and regular medications.

Any triggers set in the form will activate from the PMS.

#### To access a parked form

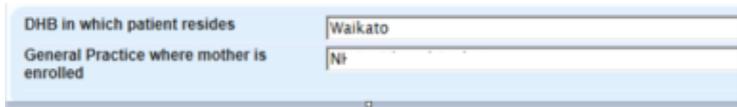
1. Click on Rocket icon
2. Select assessment type
3. Acknowledge information permissions consent using check box, this acknowledges the user has permission to access the assessment previously started.

**Get Consent**

A parked form recording information about this woman's pregnancy has been submitted previously by Bronnie Farnell at Prooon Indici Test Practice. Tick this box to confirm you wish to load the data from the parked form.

## Localisation

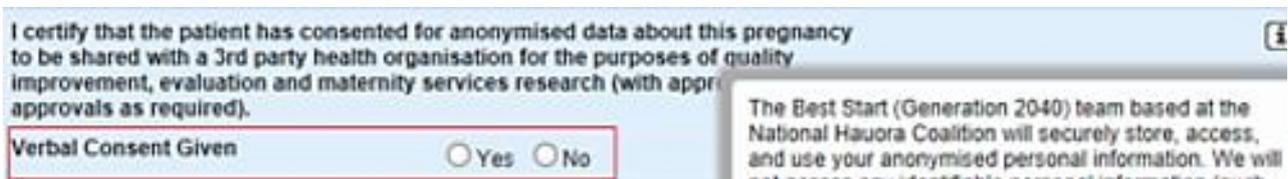
On Mothers Detail tab, enter DHB using drop down list.



## Consent

The 'tick box' indicates the woman has given verbal consent to data collection for the purpose of the Gen2040 Project. The non-identifiable data is solely for the purpose of evaluation and improving outcomes for hapū Māmā and their pēpi, particularly pēpi Māori.

The **information button** activates a descriptive summary of the data collection request for the Gen2040 equity project.



## Best Start Pregnancy

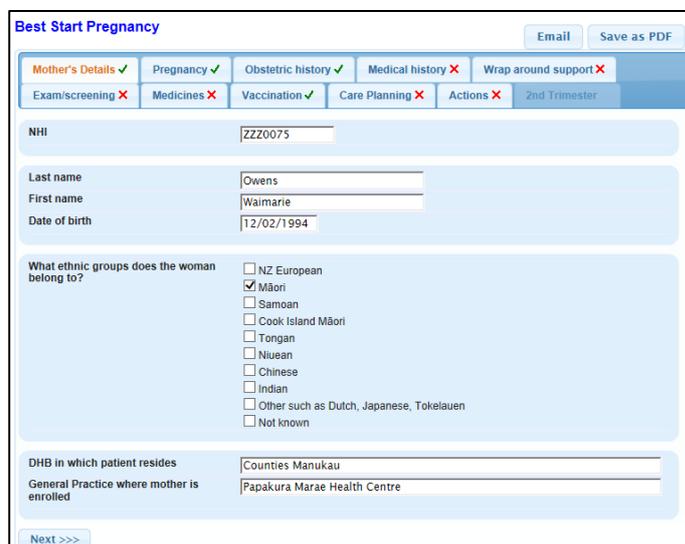


Best Start Tabs

The following summarises each category.

### Mothers Details

Populates from the PMS; provides NHI, Last and First Names, DoB, and Ethnic Groups. The DHB is identified to link the localised support services, the General Practice enables us to provide reporting.



### Pregnancy

Covering EDD, LMP, confirmation of pregnancy by method, Urine BHCG or Blood BHCG. ethnic group pēpi belongs to, IWI affiliation, and initial response to pregnancy news.

On selection of Māori, the IWI selection fields are activated. By consenting to sharing iwi data we can provide non-identifiable information to iwi to support the well-being of their iwi.

Date of LMP	<input type="text" value="08/10/2019"/>
Estimated delivery date	<input type="text" value="16/07/2020"/> 8.6 weeks pregnant.
Calculation method	<input checked="" type="radio"/> Calculated <input type="radio"/> Scan <input type="radio"/> Unsure
Periods	<input checked="" type="radio"/> Regular <input type="radio"/> Irregular < 8 weeks apart <input type="radio"/> Irregular > 8 weeks apart

New Pregnancy LMP EDD

### Obstetrics History

Gravida and Parity, and partner detail.

Gravida	<input type="text" value="2"/>	
Parity	<input type="text" value="1"/>	
Is this the first pregnancy you have had with your current partner?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know	
<b>Previous Births</b> (> 20 weeks gestation)		<div style="border: 1px solid gray; padding: 5px; width: fit-content;">         Is this the first pregnancy with the person who is the father of this pregnancy (question assumes this is the mother's current partner)       </div>

Add Baby captures detail of previous births; including names, year of birth, gestation, gender, weight, birth method, outcome, common complications and congenital problems. This information needs to be manually entered once, it will auto-populate with each subsequent pregnancy.

**Add Baby** ✕

Baby's first name

Year born

Gestation (in weeks)

Gender  Male  Female  Indeterminate

Ethnicities of the baby

- NZ European
- Māori
- Samoan
- Cook Island Māori
- Tongan
- Niuean
- Chinese
- Indian
- Other such as Dutch, Japanese, Tokelauen
- Not known

Multiple birth?  Single  Twin  Triplet  Other

Birth method  Spontaneous  Vacuum Extraction (Ventouse)  Forceps  Caesarean - Emergency  Caesarean - Elective

Birth weight  grams, or  lb  oz

Outcome  Alive  Stillbirth  Other cause of death 

Did you have any pregnancy-related health conditions in this pregnancy?  Yes  No

Congenital problems

Obstetric History Outcomes



### Medicines

Current medications will populate from PMS with fields to capture supplements, remedies and rongoā (traditional medicines). Pregnancy Medications; Folic Acid, Iodine, Aspirin, Calcium and Vitamin D questions and decision support recommendations triggered by data capture in previous categories.

**Review Medications: (Long term or prescribed in last 6 months)**

No long term medications recorded.

**Medication review**

Nil

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**Any supplements or alternative medications?**  Yes  No

**Rongoā or other cultural or traditional healing practices?**  Yes  No

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**Already taking folic acid?**  Not currently  Regular dose (0.8mg daily)  High dose (5mg daily)

**Reasons for high dose folic acid**

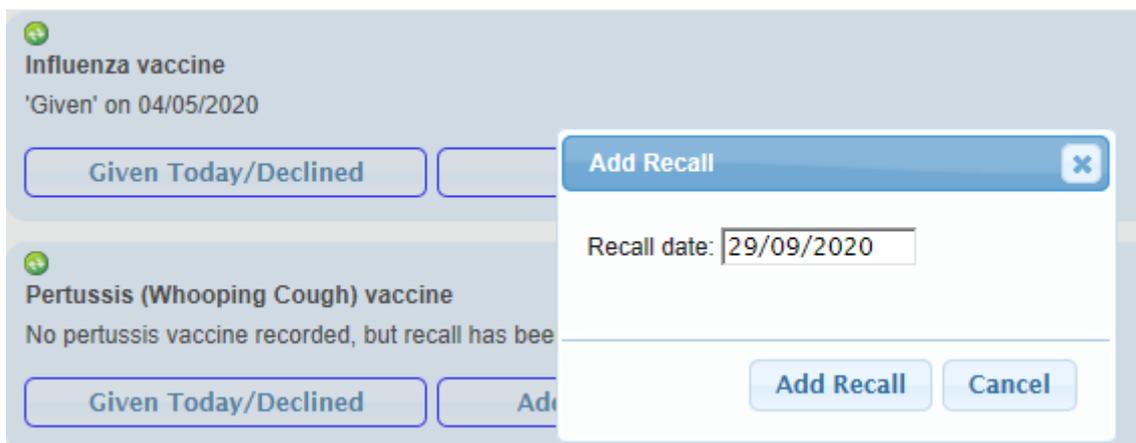
- History of neural tube defect in mother, father or their children
- Maternal diabetes mellitus
- Coeliac disease (or other malabsorption state)
- Sickle cell anaemia
- Spina bifida
- Anencephaly
- Taking antiepileptic medications
- No reasons for high dose folic acid

**Prescribed today**  Not required  Regular dose (0.8mg daily)  High dose (5mg daily)

Medications

### Vaccinations

Influenza and Pertussis vaccination status, with the ability to add a Recall, when selected an “Add Recall” pop up window appears, providing the user with a date picker to enter recall date, this functionality is only supported in PMS.



The screenshot shows two vaccine entries: 'Influenza vaccine' with status 'Given' on 04/05/2020, and 'Pertussis (Whooping Cough) vaccine' with status 'No pertussis vaccine recorded, but recall has been...'. A pop-up window titled 'Add Recall' is open over the Pertussis entry, showing a 'Recall date' field with the value '29/09/2020' and 'Add Recall' and 'Cancel' buttons.

Vaccinations Add Recall

The Given Today/Decline button in the assessment opens the "immunisation" section in the PMS enabling the user to record either a decline or a given (or anything else appropriate). Once the user has recorded status in PMS the user clicks on the "refresh" button, the display will update the status.

Care Planning

Capturing delivery choices, during pregnancy, labour and birth and post-natal contraception.

Identifying and confirming a LMC, with links through to Find Your Midwife website and the ability to add a recall to follow up on LMC engagement.



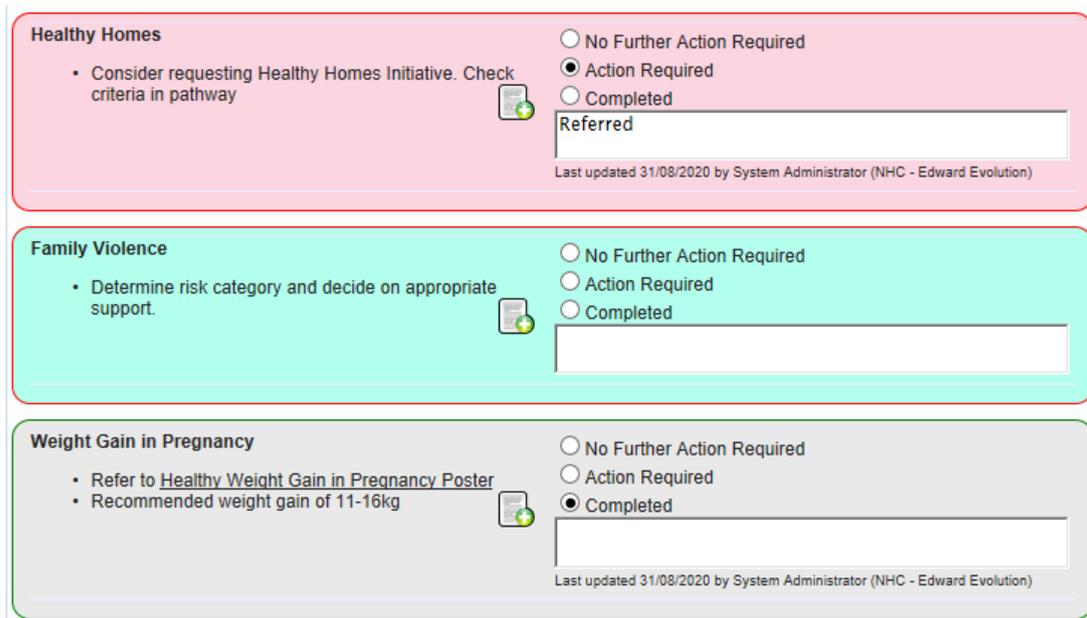
Care Planning Birthing choices

Actions

Summarises assessment data capture that has triggered an action.

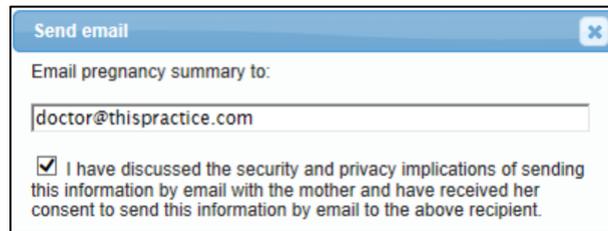
Action required	
Not yet actioned	
No further action required	

Action Summary Tasks



## Send email

The form can be sent as a pdf within the assessment, the end user must gain consent and acknowledge in the popup window.



A screenshot of a 'Send email' popup window. The title bar says 'Send email' with a close button. The main text reads 'Email pregnancy summary to:' followed by a text input field containing 'doctor@thispractice.com'. Below the input field is a checkbox that is checked, with the text: 'I have discussed the security and privacy implications of sending this information by email with the mother and have received her consent to send this information by email to the above recipient.'

## Save as a PDF

Summarises assessment into Report format and presents as pdf. Annotates name of assessor and date of assessment. PDF can be saved to desktop/file and emailed to referral agency.

To **edit** a saved assessment

1. Launch the patient on the palette
2. Click on Module,
3. Click on Advanced Forms
4. Click on New
5. Click on Best Start Pregnancy or Shift F3, a popup window will alert the user to "Get Consent" to access the form.

## Park

Enables the user to park the form to complete later.

To park

1. Click on Park for Later Completion
2. Click ok.



A screenshot of the 'Best Start Pregnancy' form interface. At the top right, there are buttons for 'Email', 'Save as PDF', 'Submit', and 'Park for Later Completion'. The 'Park for Later Completion' button is highlighted with a red box. Below the buttons is a progress bar with various sections: 'Mother's Details' (green check), 'Pregnancy' (green check), 'Obstetric history' (green check), 'Medical history' (red X), 'Support' (red X), 'Exam/screening' (red X), 'Medicines' (red X), 'Vaccination' (green check), 'Care Planning' (red X), 'Actions' (red X), and '2nd Trimester'. Below the progress bar, there is a section for 'Review Medications: (Long term or prescribed in last 6 months)' with the text 'No long term medications recorded.'

## HealthPathways

We rely on your local HealthPathways editor to provide us with the links, we work to have these localisations ready for Go Live, rarely they are not available. If not, and the PHO wishes to proceed with some form of pathways support we can with consent from Auckland Regional Pathways team install their pathways as a short-term solution.

If we have a link but it is not localised:

