About

This is the first national release of data on the maternity ‘models of care’ available to women in Australia. In 2021, over 800 models of care were reported as being in use across 242 maternity services. This report explores the characteristics of these models of care, including the 11 major model categories they fall into, the women they are designed for, the maternity carers involved in providing them, and the extent of continuity of carer within them.

Cat. no: PER 118

Findings from this report:
- Just under half (45%) of all models of care have a midwife–public as the lead maternity carer
- Routine relocation is a characteristic of the model in around 6% of models of care
- Around 61% of models are targeted at specific groups of women; 39% are not targeted
- Around 44% of maternity services have 1 model of care; 56% have 2 or more models

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Maternity models of care

What is a ‘model of care’?

A maternity model of care describes how a group of women are cared for during pregnancy, birth and the postnatal period, that is, how maternity care is provided. This includes identifying: the women a model is designed for; the maternity carers involved and the role they play; and aspects of how and where care is provided. Based on these characteristics, each model of care can be grouped into one of 11 major model categories.

Why do we need to classify them?

Around 300,000 babies are born in Australia each year and while women have some choice around the health providers and care they receive during the maternity period, this may depend on where they live and their individual circumstances. Most maternity models of care in Australia include care in either a public or private hospital setting. A 2009 report on improving maternity services in Australia recommended changes to improve choices for women and the range of models of care available to them, for example by supporting an expanded role for midwives, the expansion of collaborative models of care and improving access for rural and Indigenous women (DoHA 2009). To monitor the models of care women utilise involves collecting this information in a standardised way.

What is the Maternity Care Classification System?

The Maternity Care Classification System (MaCCS) is a standardised nomenclature for maternity models of care. It can be used to identify, describe, and report on, the range of maternity models of care available to women in Australia. Funded by the Commonwealth Department of Health, the MaCCS was developed by the National Perinatal Epidemiology and Statistics Unit at the University of New South Wales and the Australian Institute of Health and Welfare (AIHW), as part of the National Maternity Data Development Project (AIHW 2014a, 2016a, 2018). This involved consultation with a range of stakeholders across the country (AIHW 2014b, 2016b).

The MaCCS underpins the AIHW’s maternity models of care data collection and the Model of Care National Best Practice Data Set (MoC NBPD). The MoC NBPD contains information about the models of care available at each maternity service. Collecting data on models of care also facilitates the inclusion of model of care data elements into the National Perinatal Data Collection (NPDC). Two model of care data elements were added to the specifications for this collection in July 2020.

The AIHW would like to thank and acknowledge the maternity services and jurisdictions that contribute to the maternity models of care data collection. While this release only reports on the characteristics of the models themselves, future reporting will be able to link data from the NPDC and the MoC NBPD. This will enable analyses on the number and characteristics of women using these models of care, and mapping and analyses at smaller geographic levels.

References

AIHW 2014b. Nomenclature for models of maternity care: a consultation report. Cat. no. PER 64. Canberra: AIHW.
AIHW 2016a. Enhancing maternity data collection and reporting in Australia: National Maternity Data Development Project Stage 2. Cat. no. PER 73. Canberra: AIHW.
AIHW 2016b. Maternity Care Classification System: Maternity Model of Care Data Set Specification national pilot report November 2014. Cat. no. PER 74. Canberra: AIHW.


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How many models of care are there?

Maternity models of care are classified at a service level, usually within each hospital. Services identify and describe their maternity models of care and each model gets a unique model of care number. Most maternity services with birth facilities in Australia (90%) have at least 1 ‘active’ model of care classified in the MoC NBPDS. These are models of care in use at a maternity service, at 30 April 2021.

There are over 800 maternity models of care currently classified in the MoC NBPDS, however it is important to note that models of care in different locations may be similar with respect to their key characteristics. All models of care can be grouped into 11 major model categories and this means it is possible to report on the range of models of care available to women using common terminology. This information sheet describes each major model category (PDF 203 kB).

Maternity models of care - at a glance

In 2021, around 830 maternity models of care were reported as being in use across Australian maternity services. Most of these (90%) were in public maternity services. Around 44% of maternity services have 1 model of care, one-third (34%) have between 2 and 5 models of care, and 22% have 6 or more models of care. The median number of models is higher in public maternity services (3 models of care), than private maternity services (1 model of care).

Around 2 in 5 models (41%) fall within the major model category of public hospital maternity care. This is followed by midwifery group practice caseload care (15% of models), shared care (15% of models), and private obstetrician (specialist) care (11% of models). The map below shows the number of models of care in use in each state and territory and the 3 most common major model categories these fall under.

Maternity models of care, by jurisdiction, Australia, 2021

The interactive map of Australia shows the total number of maternity models of care in each state and territory and the 3 most common major model categories these fall under. It also shows the range and median number of models of care for both public and private maternity services.
What do maternity models of care look like?

In 2021, around 830 maternity models of care were in use across Australia. The characteristics of these models of care can be explored in the following sections. This includes information about: the 11 categories these models fall into (major model category); the designated and collaborative carers who provide these models of care (maternity carers); the extent of continuity of carer within the models (continuity of carer); whether the models target a particular group of women (target groups); and the antenatal and postnatal care and birth settings within the models.

**Major model category**

- 41% are classified as public hospital maternity care, followed by midwifery group practice caseload care (15%), and shared care (15%)

**Maternity carers**

- 45% have a midwife—public as the designated (lead) maternity carer

**Continuity of carer**

- 30% have continuity of carer through the whole maternity period

**Target groups**

- 61% are targeted at specific groups of women who share a common characteristic

**Antenatal and postnatal care**

- 71% provide women with access to postnatal visits in a residential setting

**Labour and birth settings**

- 97% have birthing within a hospital (birth suite/labour ward) as a planned setting for birth
What do maternity models of care look like?

Major model category

Each maternity model of care in the MoC NBPDS is grouped into one of 11 major model categories, based on its specific characteristics. The 11 different categories broadly describe the intent of the model of care, although not all women in a model of care will necessarily follow the same journey or receive the same care pathway as the model intends (or was designed for). This information sheet describes each major model category (PDF 203kB).

The most common major model category is public hospital maternity care with 41% of all models of care falling into this category. This is followed by midwifery group practice caseload care (15% of models), shared care (15%) and private obstetrician (specialist) care (11%). Public hospital high risk maternity care is the major model category for around 5% of models. Other, less common major model categories include General Practitioner (GP) obstetrician care (4%), combined care (3%), team midwifery care (2%) and private midwifery care (2%).

It is important to note that there may still be differences between models of care with the same major model category. Public hospital maternity care is the major model category with the most variation (Donnelly 2017). It broadly describes a model of care where antenatal care is provided by midwives and/or doctors in onsite or outreach clinics. Intrapartum (labour and birth) and postnatal care is provided in hospital by midwives in collaboration with doctors as needed. This category is used for models that cover a range of clinics, from those run by midwives targeted at low risk women, to those led by public specialist obstetricians for women with specific obstetric complexities such as gestational diabetes, multiple pregnancy or next birth after caesarean section. Three-quarters (76%) of models classified as public hospital maternity care are targeted at a specific group of women, compared with 61% of models overall.

In comparison, models classified with a major model category of midwifery group practice caseload care have less variation. This category describes models where antenatal, intrapartum and postnatal care are provided within a publicly funded caseload model by a known primary midwife, with secondary backup midwives providing cover and assistance, and collaboration with doctors in the event of identified risk factors. Antenatal care and postnatal care is usually provided in the hospital, community or home with intrapartum care in a hospital, birth centre or home. By definition, this model category has a midwife—public as the designated carer and continuity of carer for the whole duration of maternity care. It is also more likely to have a target group of low risk or normal pregnancy (39%, compared with 21% overall) and to provide residential postnatal care (100%, compared with 71% overall).

A shared care major model category describes models where antenatal care is provided by a community maternity service provider (doctor and/or midwife) in collaboration with hospital medical and/or midwifery staff, under an established agreement. It can occur in the community and in hospital outpatient clinics. This would usually include an agreed schedule of antenatal care between the two providers. Intrapartum and early postnatal care usually takes place in the hospital, by hospital midwives and doctors, often in conjunction with the community doctor or midwife (particularly in rural settings). Around half (51%) of models of care in this category are targeted to a specific group of women, compared with 61% overall, and 29% have a target group of low risk or normal pregnancy.

Public hospital maternity care is the most common major model category in all states and territories, except the Northern Territory where shared care is more common (29% of models). Queensland has a relatively high proportion of models of care classified as midwifery group practice caseload care (26%). The data visualisation below shows maternity models of care by their major model category for each state and territory.

Proportion of models of care, by major model category, Australia, 2021.

The bar chart in the data visualisation shows the proportion of maternity models of care, by each major model category, for Australia and in each state and territory. It shows that public hospital maternity care is the most common model category in Australia (41% of maternity models of care). This is true for all states and territories, except the Northern Territory where shared care is the most common model category (29%).
References


Notes
1. Analyses are based on the number of active models of care in the MoC NBPDS, at 30 April 2021. Active models are those in use at a maternity service.
2. Some major model categories are not represented in some jurisdictions. This may be because these models of care have not yet been classified by maternity services in these jurisdictions, or because health system structures and care frameworks differ between jurisdictions.
   Source: AIHW—MoC NBPDS.
   http://www.aihw.gov.au
What do maternity models of care look like?

Maternity carers

The designated or lead maternity carer is the health professional coordinating the care for women during the antenatal, intrapartum and postnatal periods. Just under half of all models of care (45%) have a midwife—public (midwives employed in the public health system) as the designated carer. This is an essential component of all models classified as midwifery group practice caseload care (100%), but is also found in a large number of models classified as public hospital maternity care (62%). The next most common type of designated carer is a shared care arrangement (15% of models), followed by a specialist obstetrician—public (14%), and a specialist obstetrician—private (12%). Having a shared care arrangement indicates the model does not have a single designated carer and that the carer may change at different times or be shared.

Collaborative maternity carers are other health professionals that work in partnership with the designated carer to provide maternity care. Common collaborative carers include a specialist obstetrician—public (47% of models), a midwife—public (44%) and a GP obstetrician (17%). All models of care with a designated carer of specialist obstetrician—public have a midwife—public as a collaborative carer, while three-quarters (75%) of models with a midwife—public as a designated carer have a specialist obstetrician—public as a collaborative carer. In models with a designated carer of shared care, most (90%) have a midwife—public as a collaborative carer, nearly half (48%) have a GP obstetrician as a collaborative carer, and 47% have a specialist obstetrician—public as a collaborative carer.

Nearly all (97%) models of care have at least one collaborative carer, in addition to the lead or designated carer. Half (50%) of all models of care have 1 collaborative carer, and this is higher in models classified as private obstetrician (specialist) care (84%), private midwifery care (83%), and GP obstetrician care (85%). Just over one-quarter of all models (28%) have 2 collaborative carers and this is higher in models classified as public hospital high risk maternity care (43%).

Nationally, a midwife—public is the most common type of designated carer (45% of models), and this is higher in models of care in Tasmania (65%), New South Wales (55%) and the Australian Capital Territory (50%). Victoria has a higher proportion of models of care with a specialist obstetrician—private as the designated carer (20%, compared to 12%, overall). The data visualisation below shows maternity models of care by type of designated carer for each state and territory.

Proportion of models of care, by designated carer, Australia, 2021.

The data visualisation shows the proportion of maternity models of care by each type of designated carer in Australia and for each state and territory. Around 45% of all models of care have a midwife—public as the designated (i.e. lead) carer. This is followed by a shared care arrangement (15%), a specialist obstetrician—public (14%), and a specialist obstetrician—private (12%). A midwife—public is the most common designated carer across all states and territories.
### Proportion of models of care, by type of designated carer, Australia, 2021

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<th>Proportion</th>
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<tr>
<td>Specialist obstetrician—private</td>
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<tr>
<td>Multidisciplinary team</td>
<td>3.4%</td>
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<tr>
<td>Midwife—privately practising</td>
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</tr>
<tr>
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<tr>
<td>Other</td>
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</tr>
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</table>

**Notes**

1. A designated carer (otherwise known as the lead carer) is the health professional coordinating the care for women during the antenatal, intrapartum and postnatal periods.
2. Analyses are based on the number of active models of care in the MoC NEPOS, as at 30 April 2021. Active models are those in use at a maternity service.

Source: AIHW—MoC NEPOS.

What do maternity models of care look like?

Continuity of carer

The extent of continuity of carer is a measure of the one-to-one care provided by the same named caregiver across the continuum of maternity care. Over one-third (38%) of models have no continuity of carer in any stage of the maternity period, which means there is no named carer assigned to each woman and care is given by different providers. Around one-third of models have continuity of carer for some part of the maternity period, for example the antenatal period only (17%), or the antenatal and postnatal periods (12%). Just under one-third of models (30%) have continuity of carer through the whole duration of the maternity period, meaning a single named designated carer provides or leads the majority of care for the antenatal, intrapartum and postnatal periods. This is higher in Queensland (40%) and South Australia (38%) and may be related to the higher number of models classified as midwifery group practice caseload care. The data visualisation below shows maternity models of care, by the extent of their continuity of carer, for each state and territory.

Proportion of models of care, by continuity of carer, Australia, 2021.

The bar chart in the data visualisation shows the proportion of maternity models of care by the extent of their continuity of carer, for Australia and for each state and territory. Over one-third (38%) of models of care have no continuity of carer at any stage of the maternity period. Around one-third have continuity of carer for some part of the maternity period, for example the antenatal period only, or the antenatal and postnatal periods. Just under one-third (30%) have continuity of carer through the whole duration of the maternity period.

The extent of continuity of carer varies by the type of major model category. Models classified as midwifery group practice caseload care, by definition, have continuity of carer across the whole duration of the maternity period. Models classified as private midwifery care, and private obstetrician (specialist) care also have high levels of continuity of carer across the whole duration of the maternity period (100% and 89% of models in these categories, respectively). In contrast, models classified as team midwifery care, by definition, have no continuity of carer at any stage of the maternity period. Models classified as public hospital maternity care or public hospital high-risk maternity care are also more likely to have no continuity of carer (57% and 55% of models in these categories, respectively).

The extent of continuity of carer also varies by the type of designated carer. Models of care with a designated carer of midwife—privately practising, or specialist obstetrician—private, are more likely to have continuity of carer across the whole duration of the maternity period (90% and 82%, respectively). In contrast, models of care with a designated carer of specialist obstetrician—public are more likely to have no continuity of carer at any stage of the maternity period (80%).

The data visualisation below shows the extent of continuity of carer by major model category and the type of designated carer.

The extent of continuity of carer varies by the type of major model category. Models classified as midwifery group practice caseload care, by definition, have continuity of carer across the whole duration of the maternity period. Models classified as private midwifery care, and private obstetrician (specialist) care also have high levels of continuity of carer across the whole duration of the maternity period (100% and 89% of models in these categories, respectively). In contrast, models classified as team midwifery care, by definition, have no continuity of carer at any stage of the maternity period. Models classified as public hospital maternity care or public hospital high-risk maternity care are also more likely to have no continuity of carer (57% and 55% of models in these categories, respectively).

The extent of continuity of carer also varies by the type of designated carer. Models of care with a designated carer of midwife—privately practising, or specialist obstetrician—private, are more likely to have continuity of carer across the whole duration of the maternity period (90% and 82%, respectively). In contrast, models of care with a designated carer of specialist obstetrician—public are more likely to have no continuity of carer at any stage of the maternity period (80%).

The data visualisation below shows the extent of continuity of carer by major model category and the type of designated carer.
There are 2 bar charts in the data visualisation. The first shows the extent of continuity of carer by major model category. Models classified as midwifery group practice caseload care, have continuity of carer across the whole duration of the maternity period. Models classified as private obstetrician (specialist) care also have high levels of continuity of carer across the whole duration of the maternity period (89%). In contrast, models classified as team midwifery care have no continuity of carer at any stage of the maternity period and models classified as public hospital maternity care or public hospital high-risk maternity care are also more likely to have no continuity of carer (57% and 55%, respectively). The second chart shows the extent of continuity of carer by type of designated carer. Models with a designated carer of midwife—privately practising or specialist obstetrician—private, are more likely to have continuity of carer across the whole duration of the maternity period (90% and 82%, respectively). In contrast, models of care with a designated carer of specialist obstetrician—public are more likely to have no continuity of carer at any stage of the maternity period (80%).
What do maternity models of care look like?

Target groups

Some models of care are targeted at specific groups of women with similar characteristics. These may be based on geographical area, risk status, obstetric or medical conditions or social or cultural characteristics. Target groups are not mutually exclusive, so a model of care may have more than one target group. Around 500 (61%) models of care are targeted at specific groups of women who share a common characteristic or set of characteristics, while 39% of models are not specifically targeted to any group of women. The broad target groups of low risk or normal pregnancy, and all excluding high risk pregnancy, are reported in 21% and 10% of models of care, respectively. Aboriginal or Torres Strait Islander identification is a target group in 11% of models, and complex or high risk pregnancy a target group in 5% of models (see the target group infographic below).

Proportion of models of care, by type of target group, Australia, 2021

Notes

1. A model of care may have more than one target group, so the sum of the individual target group categories will be greater than the total with a target group.

2. ‘Other groups’ include any other cultural groups, social groups, maternity groups and vulnerable groups not already specified.

Source: AIHW - MoC NBPDS.
What do maternity models of care look like?

Other maternity care characteristics

Antenatal and postnatal care

Most maternity models of care (92%) provide antenatal and postnatal care in individual sessions. Some (7%) provide this care through a combination of both individual and group sessions. These group sessions include both education and clinical care.

Around 71% of maternity models of care provide women with access to at least one postnatal visit in a residential setting. All models classified as *midwifery group practice caseload care*, *team midwifery care*, and *private midwifery care* offer postnatal visits in a residential setting, compared with 72% of models classified as *public hospital maternity care*, and 37% of models classified as *private obstetrician (specialist) care*.

Labour and birth settings

A model of care may have one or more planned settings for birth. Nearly all (97%) maternity models of care offer birthing within a hospital birth suite or labour/delivery ward as a planned setting for birth.

Around 8% of models of care have a birth centre (either stand alone or in a hospital) as a planned birth setting. Only a small number of these centres exist. A birth centre is an alternative setting to the conventional hospital setting for labour and birth. A common feature in a birth centre is a homely space, midwife-led care with a philosophy towards normality and avoidance of interventions. A small number of models of care (4%) have the home as a planned setting for birth.

Around 6% of models of care have routine relocation of women prior to labour for intrapartum care and birth, as part of the model. The intention is that all women cared for in the model require relocation from their communities to another location prior to labour for intrapartum care and birth. Routine relocation often applies to models where women reside in a rural or remote community with no access to a birth facility and are routinely relocated to a larger town or city some weeks prior to birth. Routine relocation as a characteristic of the model of care, is higher in the Northern Territory (25%) and Tasmania (17%).
How can models of care information be used?

This release is the start of a work program to report on maternity models of care and looks at the characteristics of the models themselves. Future reporting will also look at access to models of care and outcomes for women and babies utilising different models of care. A goal outlined in the Australian Government’s National Maternity Services Plan is to increase access to local maternity care, by expanding the range of models of care available (DoH 2010). Classifying the models of care available to women at the service level will provide a picture of the maternity models of care available across Australia, and monitoring this over time will help in evaluating whether the range of models of care available to women is expanding. Classifying and assigning a major model category to each model of care means the range of models of care available to women can be reported on using common terminology, for example public hospital maternity care, midwifery group practice caseload care, team midwifery care, private obstetrician (specialist) care, and shared care.

Collecting information about maternity models of care also facilitates the inclusion of model of care data elements into the NPDC. Two model of care data elements were added to the specifications for this collection from 1 July 2020 and jurisdictions are looking to collect this information. For each woman giving birth in Australia, information about their ‘primary’ model of care, and their model of care at the ‘onset of labour or non-labour caesarean section’ will be collected. The linking of data from the NPDC and the MoC NBPDS will provide information on the number and characteristics of women using different models of care, including outcomes for them and their babies. It will also support mapping and analyses at smaller geographic levels. This will support the aims of the strategic directions for Australian maternity services to improve options for women and maternal and perinatal health across Australia, in particular, by supporting the monitoring and evaluation of the strategy (COAG 2019).

References


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Data quality and availability

About the model of care national best practice data set

The scope of the MoC NBPDS is all models of maternity care available to pregnant and birthing women in Australia. The elements in the data set describe the different characteristics of models of maternity care around 3 domains:

- the women a model is designed for;
- the carers working within the model; and
- how care is commonly provided.

Information about each of the data elements in the MoC NBPDS are in Technical notes and on METeOR.

How is data collected?

The AIHW developed the MaCCS data collection tool (DCT) to collect information on the models of care available at each maternity service. A registered user in each service uses the DCT to classify their models of care, by answering a series of questions on each model of care they offer. This ensures they are classified in a standardised way. The questions used to classify each model of care are in Technical notes.

The DCT has a user guide to help registered users enter their models of care information accurately, and inbuilt validation and tool tips to reduce reporting errors. The AIHW also maintains a helpdesk to support services to classify their models of care. To ensure information is kept up to date, the AIHW asks maternity services to review and update their models of care annually, and validates new and updated models when they are submitted. Validation queries are followed up with maternity services. Any models of care with significant data quality queries still attached to them after follow up are excluded from reporting. For this report, 5 active models of care (less than 1%) were excluded from national reporting.

The information submitted to the DCT forms the basis of the MoC NBPDS. Summary information about each model of care submitted to the DCT is available for each maternity service at the MaCCS website. This includes the model ID number, model name and the major model category it falls under.

Capturing models of care in the National Perinatal Data Collection

Collecting models of care at the service level also facilitates the inclusion of model of care data elements into the NPDC. The two model of care data elements going into the NPDC are primary maternity model of care and maternity model of care at the onset of labour or non-labour caesarean section. The model of care at the onset of labour or non-labour caesarean section may be similar to or different from the primary model of care a woman received through her pregnancy. The MaCCS DCT allocates a unique model ID number to each model of care entered to it. Model ID numbers can then be used to populate the two model of care data elements in each woman’s perinatal data record and to link NPDC data with other information in the MoC NBPDS. Analyses based on the number of women that receive a particular model of care will be possible once these model of care data elements are routinely collected in the NPDC.

NPDC model of care data elements

Primary maternity model of care

Definition:

The maternity model of care a female received for the majority of pregnancy care, as represented by a numeric identifier.

Guide for use:

This value is populated using the Maternity Care Classification System (MaCCS) and is the value of the unique model of care code.

Collection methods:

To be collected once, after the birth.

Maternity model of care at the onset of labour or non-labour caesarean section

Definition:

The model of maternity care a female is under at the onset of labour or at the time of non-labour caesarean section, as represented by a numeric identifier.

Guide for use:

This value is populated using the Maternity Care Classification System (MaCCS) and is the value of the unique model of care code.
A note about coverage

In 2021, most (90%) maternity services with birth facilities had at least 1 active, or in use model of care, classified in the MaCCS DCT (see Table 1). However, a national baseline for ALL maternity models of care is not yet available because:

- Classifying models of care for the MoC NBPDS is voluntary.
- While coverage rates are above 80% in all jurisdictions, these still vary by jurisdiction and type of service.
- In services that have submitted models of care to the DCT it is possible that not all available models of care have been entered.
- There is a gap in the collection of models of care with a major model category of private midwifery care. This is because the AIHW has engaged primarily with maternity services and not private midwives directly. While the number of models in this category is likely to be small and some hospitals have entered models on behalf of private midwives, this still has poorer coverage than other major model categories. Strategies are being developed to engage with private midwives and to collect their models of care in future collections.

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<th>Services with at least 1 active model—private %</th>
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Notes

1. Includes maternity services with birth facilities.
2. Active models are those that have been classified and submitted to the MaCCS DCT and are in use at a maternity service, at 30 April 2021.

Source: MaCCS DCT, 2021.

How can we improve the collection?

The completeness and quality of the MoC NBPDS will continue to improve as familiarity with the MaCCS DCT grows, with increased engagement by maternity services and maternity service providers, and with the inclusion of the two model of care data elements into the NPDC. The AIHW will continue its work to improve the accuracy and completeness of the models of care information and to incorporate these data elements into other maternal and perinatal health reporting.
Glossary

Aboriginal or Torres Strait Islander: A person of Aboriginal and/or Torres Strait Islander descent who identifies as an Aboriginal and/or Torres Strait Islander.

antenatal: The period covering conception up to the time of birth. Synonymous with prenatal.

antenatal care: An episode of care between a pregnant woman and a midwife or doctor to assess and improve the wellbeing of the mother and baby throughout pregnancy. It does not include care where the sole purpose is to confirm the pregnancy. Also known as an antenatal visit.

birth centre: Is commonly known as an alternative setting to the conventional hospital setting for labour and birth. These can either be within a hospital or separate to the hospital i.e. ‘freestanding’. A common feature in a birth centre is a homely space, midwife-led care with a philosophy of normality and avoidance of interventions. Only a small number of maternity services around the country have a birth centre by this definition.

collaborative maternity carer(s): The health professional(s) who collaborate with the designated or lead maternity carer to provide care for women during the antenatal, intrapartum or postnatal stages of maternity care, based on the women's identified needs and individual circumstances. Collaborative carers have a planned role with each woman in the model of care, however may not provide direct clinical care to them.

combined care: A major model category within the MaCCS where antenatal care is provided by a private maternity service provider (doctor and/or midwife) in the community. Intrapartum and early postnatal care is provided in a public hospital, by hospital midwives and doctors. Postnatal care may continue in the home or community by hospital midwives. This model of care usually exists without an established shared care agreement. There is no agreed schedule of visits between the two different providers and the community-based private maternity carer does not provide any care in the hospital.

complex or high risk pregnancy: A target group within the MaCCS. This is selected if the model is provided in a public hospital by multidisciplinary specialists for complex maternal, medical and fetal conditions and limited obstetric conditions. It is not used for conditions that require obstetric input such as high body mass index (BMI), endocrine, or gestational diabetes.

continuity of carer: Continuity of carer means care is provided, or led, over the full length of a maternity period (the antenatal, intrapartum, or postnatal period) by the same named carer. Other caregivers may be involved in the provision of care, either as a backup to the named carer or to collaborate in the provision of care, however the named carer continues to coordinate and provide ongoing care throughout. The MaCCS looks at the extent of continuity of carer across the continuum of maternity care (the antenatal, intrapartum, and postnatal periods) within each model of care. There are 6 categories to describe the extent of continuity of carer within a model ranging from no continuity of carer across any stage of the maternity period to continuity of carer across the whole duration of maternity period—antenatal, intrapartum and postpartum.

designated maternity carer: The health professional who coordinates the care for a woman during the antenatal, intrapartum or postnatal stages of maternity care, based on the woman’s identified needs and individual circumstances. May also be known as the maternity care coordinator, primary or lead carer or named carer within a model. In some cases, this may not be an individual but a multi-disciplinary team or shared care arrangement. The designated maternity carer may not always be the most senior clinician involved in the care of women in the model. Possible values for this data element include: specialist obstetrician—public; specialist obstetrician—private; general practitioner obstetrician; midwife—public; midwife—private; midwife—privately practising; general practitioner; maternal—fetal medicine subspecialist; aboriginal maternal infant care practitioner; nurse; shared care; multidisciplinary team; and other.

general practitioner obstetrician care: A major model category within the MaCCS in which antenatal care is provided by a GP obstetrician. Intrapartum care is provided in either a private or public hospital by the GP obstetrician in collaboration with the hospital midwives. Postnatal care is usually provided in the hospital by the GP obstetrician and hospital midwives.

group antenatal/postnatal sessions: Some models of care offer antenatal and/or postnatal care in groups sessions such as the centering pregnancy (R) model. Group sessions consist of two or more women and must include both education and clinical care in a group setting. This does not refer to ‘parenting’ classes or ‘antenatal education’ classes.

hospital (excluding birth centre): Is a setting for birth that describes areas used for birthing in a hospital (other than a birth centre). These areas may be known by a variety of names such as birth suite, delivery suite, labour ward, labour and delivery.

intrapartum: Is the period of time from the commencement of labour and including the birth.

major model category: This is the overarching descriptor of a maternity model of care based on its characteristics. It describes the intent of a model of care. Although there is variation between different models of care, each can be grouped into one of 11 broad categories based on their specific characteristics. These 11 categories are: combined care; general practitioner obstetrician care; midwifery group
midwifery caseload: A type of maternity care where women have a primary midwife assigned to them throughout pregnancy, labour and birth and the postnatal period. Each midwife cares for an agreed number (caseload) of women per year. Caseload midwives usually work on a 24-hour on-call basis (this may be organised within a group) and may be employed on an annualised salary. This is also known as a midwifery continuity of carer model of care and may be a private or public arrangement. Midwifery caseload may be managed within a midwifery group practice model where a small number of midwives join together in a group with each midwife having their own caseload and providing backup for the other midwives in the group practice. A key aspect of caseload midwifery practice that differentiates it from team midwifery models is that women have a named midwife, caseload midwives have a self-managed workload that is outside of a traditional roster structure and provides a high level of continuity of carer across the continuum of maternity care.

midwifery group practice caseload care: A major model category within the MaCCS in which antenatal, intrapartum and postnatal care is provided within a publicly funded caseload model by a known primary midwife with secondary backup midwives providing cover and assistance, with collaboration with doctors in the event of identified risk factors. Antenatal care and postnatal care is usually provided in the hospital, community or home with intrapartum care in a hospital, birth centre or home. By definition this major model category provides continuity of carer for the whole of duration of the maternity period.

perinatal: Pertaining to, or occurring in, the period shortly before or after birth (usually up to 28 days after).

postnatal: Pertaining to the period immediately after the birth and lasts for 6 weeks. The terms postpartum and postnatal are often used interchangeably (including in this report) however explicitly, ‘postpartum’ refers to the woman and ‘postnatal’ refers to the baby.

private midwifery care: A major model category within the MaCCS in which antenatal, intrapartum and postnatal care is provided by a privately practicing midwife or group of midwives in collaboration with doctors in the event of identified risk factors. Antenatal, intrapartum and postnatal care could be provided in a range of locations including the home. This is selected when the designated maternity carer is a privately practicing midwife, even if the care is provided from a private midwifery caseload group practice. It is not selected if the model of care is shared care between a private midwife and a hospital as part of a formal arrangement.

private obstetrician and privately practising midwife joint care: A major model category within the MaCCS in which antenatal, intrapartum and postnatal care is provided by a privately practising obstetrician and midwife from the same collaborative private practice. Intrapartum care is usually provided in either a private or public hospital by the privately practising midwife and/or private obstetrician in collaboration with hospital midwifery staff. Postnatal care is usually provided in the hospital and may continue in the home, hotel or hostel by the privately practicing midwife.

private obstetrician (specialist) care: A major model category within the MaCCS in which antenatal care is provided by a private specialist obstetrician. Intrapartum care is provided in either a private or public hospital by the private specialist obstetrician in collaboration with hospital midwives. Postnatal care is usually provided in the hospital by the private specialist obstetrician and hospital midwives and care by midwives may continue in the home, hotel or hostel.

public hospital high risk maternity care: A major model category within the MaCCS in which antenatal care is provided to women with medical high risk/complex pregnancies by public hospital maternity care providers (specialist obstetricians and/or maternal-fetal medicine subspecialists in collaboration with midwives). Intrapartum and postnatal care is provided by hospital doctors and midwives. Postnatal care may continue in the home or community by hospital midwives.

This category is not used for specialised obstetric-led clinics (models of care) such as those specifically for women with diabetes or with obstetric risk factors such as high BMI. Obstetric-led clinics or models requiring obstetric input but not multi-disciplinary medical specialised care are classified as public hospital maternity care.

public hospital maternity care: A major model category within the MaCCS in which antenatal care is provided in hospital outpatient clinics (either onsite or outreach) by midwives and/or doctors and may include specific clinics, for example diabetes clinics, and Next birth after Caesarean (NBAC) clinics. Care could also be provided by a multidisciplinary team. Intrapartum and postnatal care is provided in the hospital by the midwives and in collaboration with doctors as required. Postnatal care may continue in the home or community by hospital midwives.

remote area maternity care: A major model category within the MaCCS in which antenatal and postnatal care is provided in remote communities by a remote area midwife (or a remote area nurse) or group of midwives sometimes in collaboration with a remote area nurse and/or doctor. Antenatal care may also be provided via telehealth or fly-in-fly-out clinicians in an outreach setting. Intrapartum and early postnatal care is provided in a regional or metropolitan hospital (often involving temporary relocation prior to labour) by hospital midwives and doctors.

routine relocation: This is where the intention of the model of care is that all women cared for in the model require relocation from their communities to another location prior to labour for intrapartum care and birth. Routine relocation often applies to models where women reside in a rural or remote community where there is no access to an appropriate birth facility and are routinely relocated to a larger town or city some weeks prior to birth. This is not used if the model only requires the transfer of some women with increased risk factors due to complexities of pregnancy.
**shared care:** A major model category within the MaCCS in which antenatal care is provided by a community maternity service provider (doctor and/or midwife) in collaboration with a hospital medical and/or midwifery staff under an established agreement, and can occur both in the community and in hospital outpatient clinics. This would usually include an agreed schedule of antenatal care between the two providers. Intrapartum and early postnatal care usually takes place in the hospital, by hospital midwives and doctors, often in conjunction with the community doctor or midwife (particularly in rural settings).

**target group:** Some models of care are targeted at specific groups of women with similar characteristics. These may be based on geographical area, risk status, obstetric or medical condition or social/cultural characteristics. Having a target group does not necessarily mean the model is restricted to only those women (although the model is specifically targeted at them) and other women may also access the model of care. Some models are targeted at more than one group of women so multiple values for this data element may be selected. In the MaCCS the possible values for this data element include: Aboriginal or Torres Strait Islander identification; migrant or refugee; low risk or normal pregnancy; complex or high risk pregnancy; breech presentation of fetus; multi fetal pregnancy; next birth after caesarean section; planned homebirth; maternal diabetes and other endocrine disorders; maternal obesity or high body mass index; maternal drug or alcohol use; maternal age—young; maternal mental health condition; maternal remote area of residence; other specific cultural groups not already specified; other social groups not already specified; other vulnerable groups not already specified; other maternity target group.

**team midwifery care:** A major model category within the MaCCS in which antenatal, intrapartum and postnatal care is provided by a small team of rostered midwives (no more than eight) in collaboration with doctors in the event of identified risk factors. Intrapartum care is usually provided in the hospital or birth centre. Postnatal care may continue in the home or community by the team midwives. By definition, no continuity of carer during any period exists within this category.
## Technical notes

### Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>AIHW</td>
<td>Australian Institute of Health and Welfare</td>
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<td>COAG</td>
<td>Council of Australian Governments</td>
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<td>Data Collection Tool</td>
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<td>MaCCS</td>
<td>Maternity Care Classification System</td>
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<td>Model of Care National Best Practice Data Set</td>
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<td>NBAC</td>
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<td>National Perinatal Data Collection</td>
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MoC NBPDS data elements (PDF, 31 KB)

MaCCS DCT questions (PDF, 90 KB)

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Data

Data tables: Maternity care in Australia

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