



Data Management Plan

Name: Demo Plan - Opera

DMP Identifier: 35

Project title: The health benefits of listening to operatic music.

Principal investigator: Stephanie Bradbury (PI)

Data management plan creator: Stephanie Bradbury

1 Project Information

1.1 Research project name *

The health benefits of listening to operatic music.

1.2 Version

Version 1.0

1.3 Principal investigator / researcher *

- Stephanie Bradbury (PI)

1.4 ORCID

Bradbury [0000-0002-1429-608X](https://orcid.org/0000-0002-1429-608X)

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Borchert [0000-0002-3236-6459](https://orcid.org/0000-0002-3236-6459)

1.5 Research team members *

- Stephanie Bradbury (PI)
- Paula Callan (CI)
- Martin Borchert (CI)
- Philippa Broadley (CI)

1.6 QUT affiliations *

- Stephanie Bradbury (PI) QUT Library
- Paula Callan (CI) QUT Library
- Martin Borchert (CI) QUT Library
- Philippa Broadley (CI) QUT Library

1.7 Other affiliations

Nil

1.8 Project contact regarding data management *

Stephanie Bradbury s.bradbury@qut.edu.au 07 3138 0618

1.9 Description of the project *

Listening to some music can slow the heart and lower blood pressure (Bernadi, 2009). Rousing operatic music, like Puccini's *Nessun Dorma*, full of crescendos and diminuendos has been shown to be the stabilise the heartbeat and possibly help with stroke rehabilitation.

Music is already used holistically at the bedside in many hospitals. Not only is it cheap

and easy to administer, music has discernible physical effects on the body as well as mood (Pity and Hunt, 1974). Music with a faster tempo increases breathing, heart rate and blood pressure, while slower-pace music does the reverse. Music induces a continuous, dynamic - and to some extent predictable - change in the cardiovascular system

This study proposes to survey 50 healthy volunteers to listen to five random tracks of classical and operatic and other music and monitor how their bodies responded. Tracks will include selections from Beethoven's Ninth Symphony, an aria from Puccini's Turandot, Bach's cantata No 169, Va Pensiero from Nabucco and Libiam Nei Lieti Calici from La Traviata

Blood pressure, respiratory rate and heart rate will be monitored during the activity.

PLEASE NOTE: This description is for a test plan only. It has been adapted from "Opera 'is music for the heart'" written for the BBC News in 2009, <http://news.bbc.co.uk/2/hi/health/8112247.stm>.

1.10 Funding bodies, grant and other reference IDs

ARC

1.11 Research areas *

190408 Music Therapy

1.12 Research ethics clearances

QUT 0800000999

2 Data Collection

2.1 Existing datasets

Recruitment will occur from the QUT/IHBI Participate in a Research Study web page: <https://www.qut.edu.au/institute-of-health-and-biomedical-innovation/get-involved/participate-in-a-research-study>

No existing datasets will be used; all data for the project will be collected.

This dataset may be integrated with another dataset at a later date.

2.2 Data description

Dataset 1

Research diary: paper notebook of team meetings, actions, thoughts, ideas

References in an EndNote database

Word documents: protocols, manuscripts, manuals of operation

Surveys: online KeySurvey - responses exported to Excel spreadsheet, analysis (e.g. charts) within the spreadsheet.

Measurement data: SPSS files, Excel spreadsheets,

Consent forms: signed paper documents

Analogue format - paper

EndNote database (.enl)

MS Excel spreadsheet (.xls; and comma-delimited .csv)

MS Word for text documents (.doc)

These formats are in widespread use, the University has the relevant software licences

or they are accepted standards in this research discipline.

Dataset 2

Biosamples

2.3 Data collection procedures

History, scales, blood pressure monitor, heart rate monitor.

- blood pressure
- heart rate variability

Questionnaires

- Modified Operatic Music and Wellbeing Scale (Pucini, 1979)

2.4 Quality control procedures

The xxxxx Manual of Operations details calibration of instruments, avoiding bias and/or scale of measurement issues, where taking multiple measurements is necessary, standardised methods, recording forms with instructions, computer-assisted device use, controlled vocabularies, manual data entry procedures, checking out-of-range values and data completeness.

2.5 Data organisation

U:\Research\Projects\MusicTherapy (grant_admin, instruments, recruitment, participant management, ethics, data, protocols, staffing, finance etc)

2.6 Expected volume of data

100 megabytes

2.7 Start date of data collection *

Research/MusicTherapy (admin, instruments, recruitment, participant management, ethics, data, protocols, etc)

Restricted: Research/MusicTherapy (grant admin, staffing, finance)

2.8 End date of data collection *

3 Ethics, Policy and Legal Compliance

3.1 Data privacy

The project is associated with personal information collected from participants. The level of identifiability is indicated below:

- collection phase - reidentifiable - working datasheets
- storage - reidentifiable - electronic, paper etc,
- bioresource - reidentifiable
- publication/dissemination - nonidentifiable

Consent form reflects the privacy protections (anonymity at different phases of the project). Consent documents also include the sharing of data. Privacy of information will be safeguarded by the following means:

- personal information remains confidential and is only accessible to research team members
- data is protected in the QUT environment using locked cabinets and password-protected electronic environment accessible to the research team members

The relevant clearances/policies/codes include:

- University Human Research Ethics Committee Approval
- Australian Code for the Responsible Conduct of Research
- National Statement on Ethical Conduct in Human Research
- NHMRC Grants Policy & Guidance
- Information Privacy Act 2009
- QUT MOPP

3.2 Data confidentiality

The following means will protect data confidentiality:

- experienced researchers understand principles of confidentiality
- data will be anonymised when disseminated, or shared
- biobank (stored) samples reidentifiable
- limited access environments to team members for electronic and paper records
- publication/presentation nonidentifiable data
- shared data will be nonidentifiable.

The relevant clearances/policies/codes include:

- University Human Research Ethics Committee Approval
- Australian Code for the Responsible Conduct of Research
- National Statement on Ethical Conduct in Human Research
- NHMRC Grants Policy & Guidance

- Information Privacy Act 2009
- QUT MOPP

3.3 Data ownership and intellectual property

The data will be owned by QUT. QUT students will assign IP to QUT.

The relevant clearances/policies/codes include:

- University Human Research Ethics Committee Approval
- Australian Code for the Responsible Conduct of Research
- QUT MOPP.

3.4 Copyright

Copyright is owned by QUT.

3.5 Funding body and other stakeholder requirements

NHMRC Guidelines: <https://www.nhmrc.gov.au/guidelines-publications/r24>

4 Data Protection

4.1 Data storage

Data storage is provided by QUT. Data is stored on the Research Data Storage Service U:\Research

4.2 Data loss prevention procedures

QUT backs up data stored on network drives daily.

Data retrieval from backup is tested once per year.

4.3 Data access

Only research team members have access to data.

4.4 Data transmission procedures

No data will be transmitted between sites nor between research team members.

5 Preservation

5.1 Preservation plan

The preservation plan involves preparation of datasets for sharing.

Keysurvey data will be exported to PDF and excel at end of 2016 and stored in U:\Research\Archives

The relevant clearances/policies/codes:

- University Human Research Ethics Committee Approval
- Australian Code for the Responsible Conduct of Research
- National Statement on Ethical Conduct in Human Research
- NHMRC Grants Policy & Guidance

- Information Privacy Act 2009
- QUT MOPP

5.2 Estimated costs

Unknown. Nil at this point.

5.3 Retention period and disposal plan

The data will be kept indefinitely due to the expensive and valuable, unique nature of the datasets.

5.4 Date of data retention review

N/A

6 Data Sharing and Reuse

6.1 Method for data sharing

Data will be discoverable via metadata in QUT Research Data Finder/Research Data Australia.

6.2 Restrictions on sharing and access procedures

Participants have consented for data sharing, providing data is de-identified.

Physical location: V704, Level 7, V Block. Participant records filed in locked cabinets.

Electronic location of data: U:\Research\Projects\OperaticMusic [The majority of files in this folder which includes data, documentation and administrative information can be accessed by team members only. The financial records and items are locked to Stephanie Bradbury and Paula Callan]

The relevant clearances/policies/codes include:

- University Human Research Ethics Committee Approval
- Australian Code for the Responsible Conduct of Research
- National Statement on Ethical Conduct in Human Research
- NHMRC Grants Policy & Guidance
- Information Privacy Act 2009
- QUT MOPP

6.3 Documentation

Documentation includes Protocols, Manual of Operations, Ethics Approvals, Participant Informed Consent Form, Data Dictionary.

6.4 Metadata

Metadata records for project and project team members will be added to <https://researchdatafinder.qut.edu.au/>. The metadata schema used is RIF-CS.

7 Responsibilities

7.1 Next DMP review date

2015-06-01

7.2 Declarations

I have read and understood the QUT [MOPP D/2.8 Management of research data](#), the [Australian Code for the Responsible Conduct of Research](#) and other relevant University and/or statutory requirements, guidelines and codes of practice, and declare that:

- The proposed project conforms in all respects with these documents;
- The information contained in this form is true and accurate;
- All investigators, students, supervisors and assistants involved in this project will be fully briefed on data management i.e. the plan will be shared with them.

Signature _____ Date _____

Print name _____ Role/institution _____

Signature _____ Date _____

Print name _____ Role/institution _____

Signature _____ Date _____

Print name _____ Role/institution _____