# The Evaluation the Toffee Full Face Mask for the Treatment of Obstructive Sleep Apnea

NCT04615832

DATE: 25th of June 2021







# Clinical Investigation Plan 25<sup>th</sup> June 2021

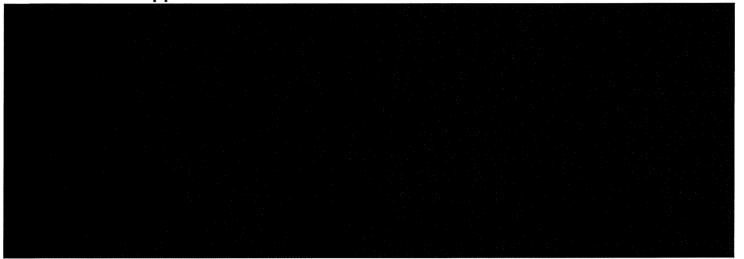


Fisher&Paykel	Clinical Investigation Plan	Page 2 of 35	

This page is left intentionally blank.

Fisher&Paykel	Clinical Investigation Plan	Page 3 of 35

**Review and Approval** 



# Contents

2.1. Purpose and Scope       6         2.2. Confidentiality Statement       7         2.3. Persons Authorized to Amend the Clinical Investigation Protocol       7         2.4. Literature Review       7         2.5. Study justification       8         2.6. Study synopsis       8         2.7. Study Site       9         2.8. Clinical trial guidelines       9         3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13 <th>1.</th> <th>Revisio</th> <th>n History</th> <th>6</th>	1.	Revisio	n History	6
2.1. Purpose and Scope       6         2.2. Confidentiality Statement       7         2.3. Persons Authorized to Amend the Clinical Investigation Protocol       7         2.4. Literature Review       7         2.5. Study justification       8         2.6. Study synopsis       8         2.7. Study Site       9         2.8. Clinical trial guidelines       9         3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13 <th></th> <th>1.1.</th> <th>List of Abbreviations</th> <th>6</th>		1.1.	List of Abbreviations	6
2.2. Confidentiality Statement.       7         2.3. Persons Authorized to Amend the Clinical Investigation Protocol       7         2.4. Literature Review       7         2.5. Study justification       8         2.6. Study synopsis       8         2.7. Study Site       9         2.8. Clinical trial guidelines       9         3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical Trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. I dentification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relev	2.	Docum	ent Information	6
2.3. Persons Authorized to Amend the Clinical Investigation Protocol       7         2.4. Literature Review       7         2.5. Study justification       8         2.6. Study synopsis       8         2.7. Study Site       9         2.8. Clinical trial guidelines       9         3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of		2.1.		
2.4. Literature Review       7         2.5. Study justification       8         2.6. Study synopsis       8         2.7. Study Site       9         2.8. Clinical trial guidelines       9         3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14		2.2.		
2.5. Study justification       8         2.6. Study synopsis       8         2.7. Study Site       9         2.8. Clinical trial guidelines       9         3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Procautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14		2.3.		
2.6. Study synopsis       8         2.7. Study Site       9         2.8. Clinical trial guidelines       9         3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14				
2.7. Study Site       9         2.8. Clinical trial guidelines       9         3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14      <				
2.8. Clinical trial guidelines       9         3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15				
3. Investigator Information       9         3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16				
3.1. Principal Investigator       9         3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16	_			
3.2. Institutions       9         4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18	3.			
4. Sponsor Information       10         4.1. Primary Sponsor       10         4.2. Clinical Researchers       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18				
4.1. Primary Sponsor.       10         4.2. Clinical Researchers.       10         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation Design       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22 </td <td></td> <td></td> <td></td> <td></td>				
4.2. Clinical trial objectives       11         5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22 </td <td>4.</td> <td></td> <td></td> <td></td>	4.			
5. Clinical trial objectives       11         5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22 <td></td> <td></td> <td></td> <td></td>				
5.1. Hypothesis       11         5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22				
5.2. Objectives       11         5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22	5.			
5.3. Population       11         5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22				
5.4. Enrolment eligibility       11         5.5. Informed consent       12         6. Investigational Product       12         6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22				
5.5. Informed consent				
6.       Investigational Product				
6.1. Identification of the Medical Device       12         6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22	6			
6.2. Pre-Clinical Testing       12         6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22	0.	-		
6.3. Device Risk Analysis and Management       12         6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22				
6.4. Additional Precautions       13         6.5. Previous Clinical Experience       13         6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22				
6.6. Essential Requirements of the Relevant Directive       13         7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22		6.4.		
7. Clinical Investigation Design       14         7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22				
7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22		6.6.	Essential Requirements of the Relevant Directive	13
7.1. Type of Investigation       14         7.2. Controls and Bias       14         7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22	7.	Clinical	I Investigation Design	14
7.3. Equipment       14         7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22				
7.4. Endpoints       14         7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22		7.2.		
7.5. Event timeline       15         7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22		7.3.		
7.6. Participant Compensation       16         7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22				
7.7. Variables       16         7.8. Measurements       16         7.9. Mask Fitting Protocol       18         7.10. Participant Procedure       19         7.11. Withdrawal Criteria       22         7.12. Follow-Up Plan       22				
7.8. Measurements				
7.9. Mask Fitting Protocol				
7.10. Participant Procedure				
7.11. Withdrawal Criteria22 7.12. Follow-Up Plan22				
7.12. Follow-Up Plan22				
7.13. Foreseeable Complications22				
		7.13.	Foreseeable Complications	22

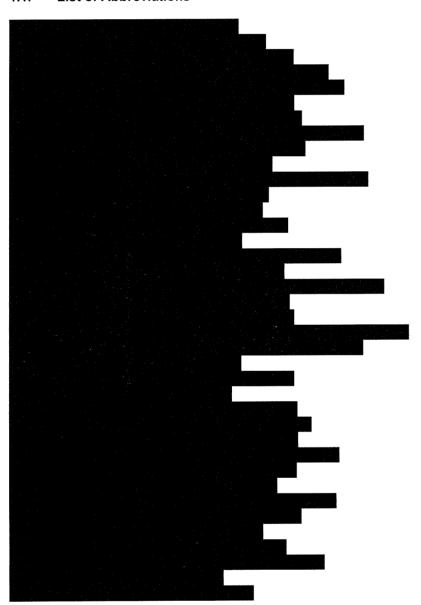
8.	Clinical Trial Documentation	22
	8.1. Consent and Recruitment	22
	8.2. Case Report Form	22
	8.3. Case Report Form Signatories	22
	8.4. Insurance Statement	23
	8.5. Record of Deviations	23
9.	Statistical Analysis	23
	9.1. Statistical Design	23
	9.2. Sample Size	
	9.3. Pass and Fail Criteria	24
	9.4. Statistical Termination	25
	9.5. Statistical Procedure Deviations	25
	9.6. Selection Criteria	26
10.	Data Management	26
	10.1. Data Management	
	10.2. Monitoring Arrangements	
	10.3. Data Management	
11.	Adverse Events and Termination	27
	11.1. Emergency Contact Details	27
	11.2. Foreseeable Adverse Events	
	11.3. Reporting Adverse Events	28
	11.4. Early Termination	28
12.	Publication Policy	28
13.	Approval	29
	13.1. Principal Investigator Approval	
14.	References	
15.	Appendix	
	15.1. Recruitment Script	
	15.2. Participant Questionnaire Links	
	15.3. Researcher Questionnaire Links	
	15.4. Sleep Diary (Additional copies of pages for each night will be available)	

Fisher&Paykel	Clinical Investigation Plan	Page 6 of 35	

# 1. Revision History

Rev	Date	Author	Description of Changes
Α	25 June 2021		

### 1.1. List of Abbreviations



# 2. Document Information

### 2.1. Purpose and Scope

The purpose of this document is to outline the clinical trial protocol for:

The purpose of the Clinical Investigation Plan (CIP) is to provide research personnel at the investigation sites in New Zealand with sufficient information about the scope of the clinical trial, and the activities associated with completing procedures to an acceptable standard, as per what is stipulated by the sponsor company, Fisher & Paykel Healthcare. Ltd. (FPH), in New Zealand (NZ). The CIP will be updated if there is significant change to the protocol being applied. The Principal Investigator (PI) will acknowledge the receipt of this CIP, as well as subsequent amendments.

Fisher & Paykel	Clinical Investigation Plan	Page 7 of 35

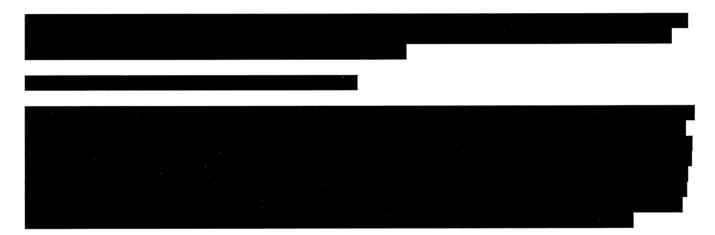
### 2.2. Confidentiality Statement

This CIP contains commercially sensitive and confidential information belonging to FPH and is provided for the sole purpose of enabling an evaluation of a possible collaboration between FPH and the investigation sites to undertake the proposed clinical trial. As such, this CIP must remain confidential at all times, and any disclosure, distribution, or reproduction of this CIP beyond its intended purpose is strictly prohibited.

### 2.3. Persons Authorized to Amend the Clinical Investigation Protocol



### 2.4. Literature Review

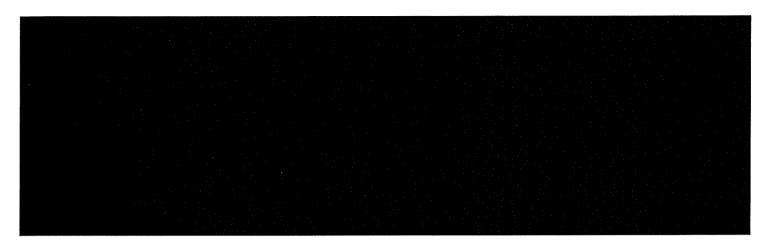






isher&Paykel	Clinical Investigation Plan	Page 8 of 35
5. Study justifi	ication	
inical trial is to eval	uate the performance, comfort, usability, and reliability of the gards to participant views on overall experience, satisfaction,	The aim of this Toffee Full Face mask in a home and acceptance.
6. Study synoր	psis	
erformance, comfo	spective, multi-arm, randomized, and non-blinded clinical rt, and usability of the FPH Toffee Full Face mask amon apy by a physician.	trial, designed to evaluate the gst participants who have been

Fisher&Paykel	Clinical Investigation Plan	Page 9 of 35



### 2.7. Study Site

### 2.8. Clinical trial guidelines

This clinical trial will be conducted in accordance with ICH and GCP guidelines. No deviation from the protocol will be implemented without prior review and approval from the sponsor, except where it may be necessary to eliminate an immediate hazard to a participant. In such case, the deviation will be reported to the sponsor as soon as possible. Although the sponsor and the investigator are the same company, the sponsor will not be the investigator. To ensure roles are clearly defined and kept independent, there is a DOA, located within tab 3.1 of CIA-284, to clearly delineate tasks to be carried out by each of the clinical research personnel.

# 3. Investigator Information

### 3.1. Principal Investigator

Name: Bhavi Ogra

Address: 15 Maurice Paykel Place, East Tamaki, 2013, Auckland, NZ

Email: bhavi.ogra@fphcare.co.nz Phone: +64 09 574 0123 Ext 7882

Mobile: +64 210488581

Professional Position: Clinical Research Manager

Country of Residence: NZ

### 3.2. Institutions

Name: Hawke's Bay Memorial Hospital (HBDHB)

Name of Contact: Colleen Lockwood

Address: 398 Omahu Road, Camberley, Hastings 4120, NZ

Email: colleen.lockwood@hbdhb.govt.nz

Phone: +64 6 878 8109 Ext. 6604

Professional Position: Sleep Scientist - Recruitment Coordinator

Country of residence: NZ

Name: WellSleep, Bowen Hospital

Name of Contact: Angela Campbell

Address: 98 Churchill Drive, Crofton Downs, Wellington, 6035, NZ

Email: angela.campbell@otago.ac.nz

Fisher&Paykel	Clinical Investigation Plan	Page 10 of 35	

Phone: +64 4 920 8819

Professional Position: Manager Country of residence: NZ

Country of rootacheer ....

Name: Fisher & Paykel Healthcare

Name of Contact: Rebecca Thomson

Address: 15 Maurice Paykel Place, East Tamaki, 2013, Auckland, NZ

Email: rebecca.thomson@fphcare.co.nz Phone: +64 09 574 0123 Ext 7675

Professional Position: Senior Clinical Research Scientist

Country of residence: NZ

# 4. Sponsor Information

### 4.1. Primary Sponsor

Name: Fisher & Paykel Healthcare Ltd.

Name of Contact: Chris Nightingale

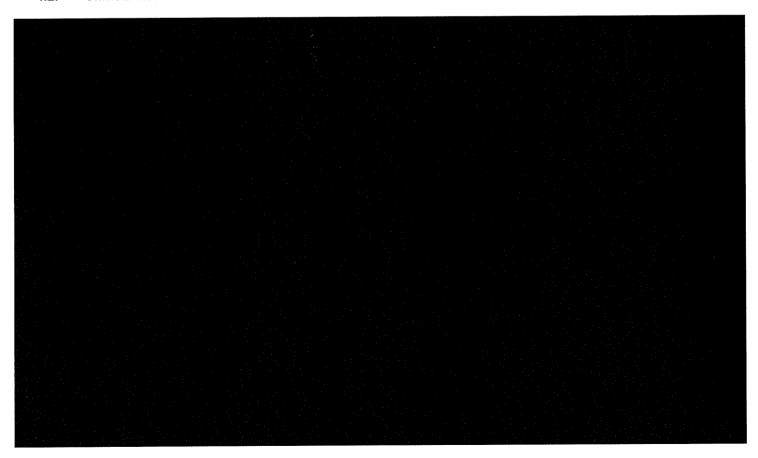
Address: 15 Maurice Paykel Place, East Tamaki, 2013, Auckland, NZ

Phone: +64 9 5740123 | Extension: 7879 Email: chris.nightingale@fphcare.co.nz

Position: General Manager - OSA

Residence: NZ

### 4.2. Clinical Researchers



Fisher&Paykel	Clinical Investigation Plan	Page 11 of 35

# 5. Clinical trial objectives

### 5.1. Hypothesis

### 5.2. Objectives

### Primary objectives:

- To evaluate the Toffee Full Face mask for comfort, sealing performance, aesthetics, and usability in a home environment when used for the delivery of PAP therapy

### 5.3. Population

A sample of 45 participants, who currently use a full-face mask, will be recruited for the clinical trial by the investigation site.

### 5.4. Enrolment eligibility

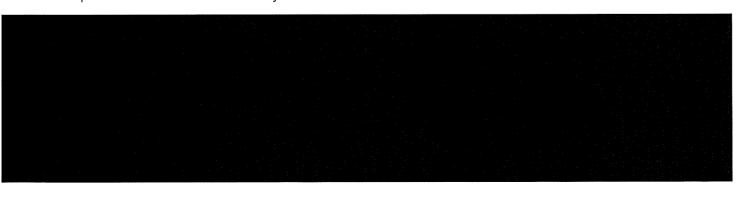
### Inclusion criteria:

- Persons who are ≥22 years of age
- Persons who weigh ≥66 lbs (30 kgs)
- Persons who have been prescribed PAP (APAP, BPAP or CPAP) therapy by a physician
- Persons who are compliant with PAP therapy for ≥4 hours per night for 70% of nights for at least two weeks prior to enrolment in the trial
- Persons who are currently using a full face mask
- Persons who have an IPAP pressure of < 30 cmH<sub>2</sub>O
- · Persons who currently use a PAP therapy device with data recording capabilities
- Persons who are fluent in spoken and written English
- Persons who possess the capacity to provide informed consent

### Exclusion criteria:

- · Persons who are intolerant to PAP therapy
- Persons who are required to use PAP therapy for more than 12 hours per day or for extensive periods other than sleep or naps
- Persons using nasal or nasal pillows masks
- Persons who possess, or suffer from, anatomical or physiological conditions which make PAP therapy inappropriate
- Persons who are pregnant or think they may be pregnant
- Persons who use a PAP therapy machine for the delivery of medicines, except supplemental O<sub>2</sub>
- Persons who currently have cold or flu like symptoms at the time of recruitment
- · Persons who have tested positive for COVID-19 within the previous 28 days prior to enrolment

Participants can be current users of any full-face mask.



Fisher & Paykel	Clinical Investigation Plan	Page 12 of 35

### 5.5. Informed consent

Participants will be pre-screened for eligibility according to the inclusion and exclusion criteria and recruited by the three investigation sites from their database of patients by email or phone (using the RS, Appendix 15.1). If a patient is willing to participate in the clinical trial, informed consent will be obtained, individually or in groups, at the investigation site during Visit 1. A CI or the PI identified in the Delegation of Authority (DOA) will be present to witness the informed consent taking place and to answer any questions potential participants have relating to the clinical trial. Participants will be given the opportunity to read over the Informed Consent Form (ICF; Appendix 17.2), before being given an overview of clinical trial procedures and risks associated with partaking, by the CI or PI. All participants will be provided with a photocopy of the signed ICF before clinical trial procedures commence. No further physical or electronic copies of ICFs will be created. Each enrolled participant will be allocated a unique and random pregenerated 4-digit Subject Identification Number (SIN), which will be recorded in the Subject Identification Log (SIL). The SIL and all ICFs will be stored separate to all other clinical trial documentation at the investigation site to maintain anonymity of the feedback obtained from participants during the clinical trial. Details of the informed consent, such as the date and time it was obtained from participants, as well as the activities that were consented to, will also be recorded in the Case Report Form (CRF).

# 6. Investigational Product

6.1.	Identification of the Medical Device					
·:						

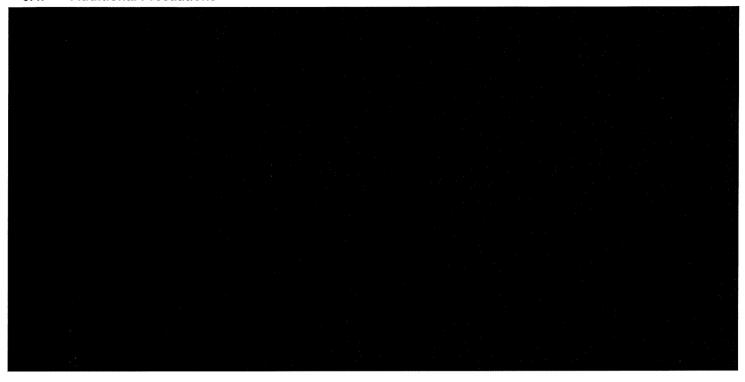
### 6.2. Pre-Clinical Testing

### 6.3. Device Risk Analysis and Management

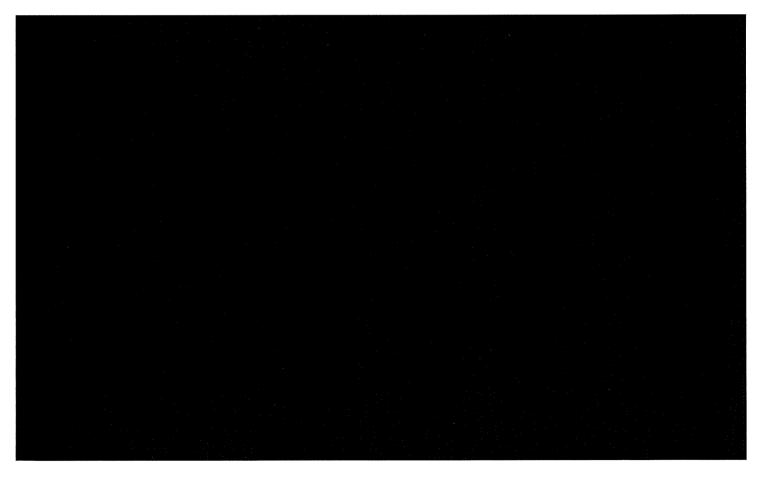


-	Fisher&Paykel	Clinical Investigation Plan	Page 13 of 35
Service and an overland the service of the service			

### 6.4. Additional Precautions



# 6.5. Previous Clinical Experience



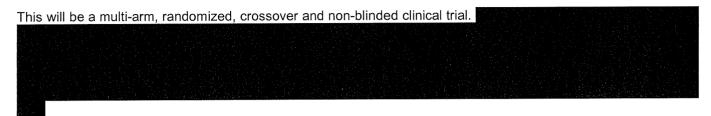
# 6.6. Essential Requirements of the Relevant Directive

Essential requirements are not applicable as this clinical trial is being conducted in New Zealand.

Fisher & Paykel	Clinical Investigation Plan	Page 14 of 35

# 7. Clinical Investigation Design

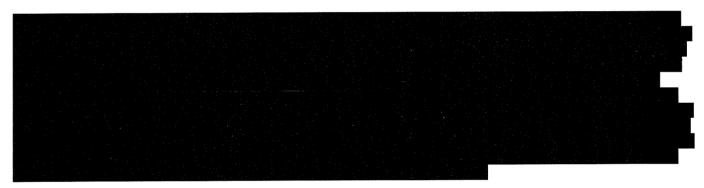
### 7.1. Type of Investigation



### 7.2. Controls and Bias

No control group will be used in this clinical trial as it is designed to test Toffee Full Face mask for the for comfort, sealing performance, aesthetics, and usability in a home environment.

### 7.3. Equipment



### 7.4. Endpoints

Primary endpoint:

1. The Toffee Full Face mask facilitates the continued delivery of PAP therapy when used in the home

Secondary endpoints:

- 2. The Toffee Full Face mask, including the cushion and headgear, is comfortable when used for the delivery of PAP therapy in the home
- 3. The Toffee Full Face mask performs (e.g. minimal leak) adequately when used for the delivery of PAP therapy in the home
- 4. The Toffee Full Face mask is easy to disassemble/re-assemble when required for cleaning
- 5. The Toffee Full Face mask sizing guide is accurate in predicting the correct size for the participants

Fisher & Paykel	Clinical Investigation Plan	Page 15 of 35
		1

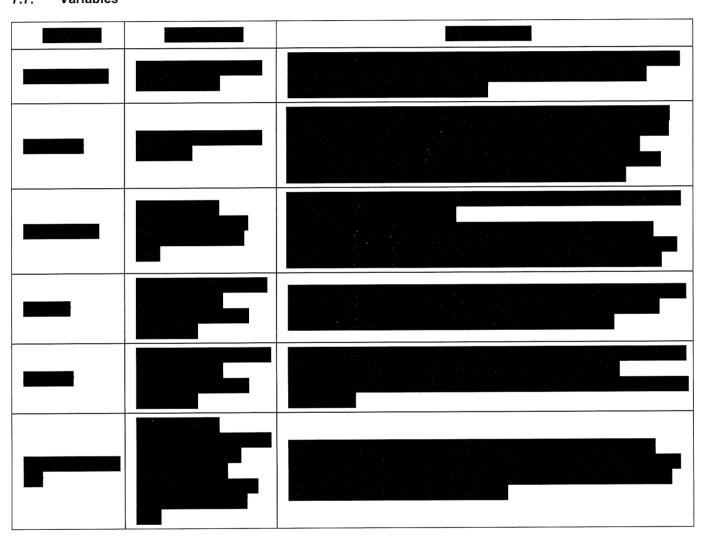
7.5. Event timeline

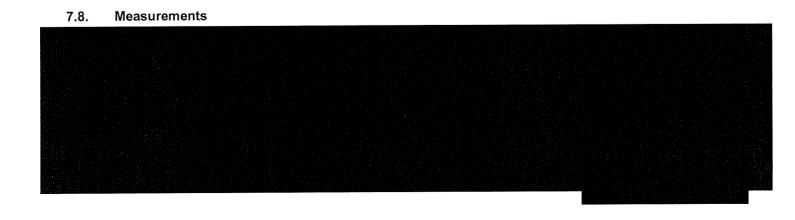
Fisher&Paykel	Clinical Investigation Plan	Page 16 of 35

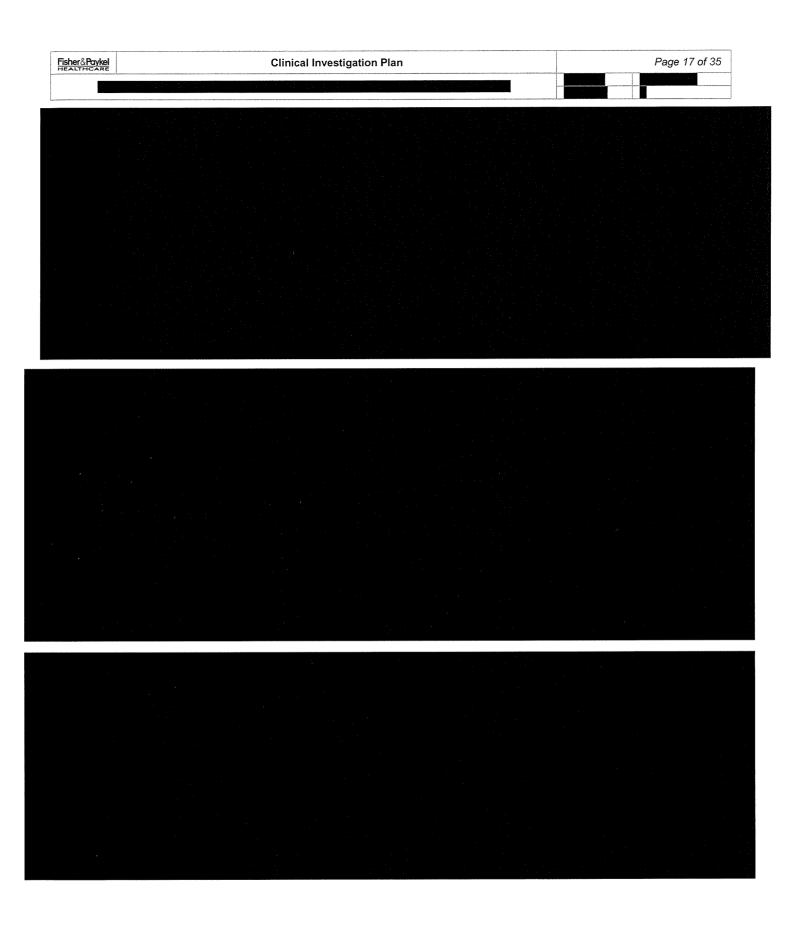
# 7.6. Participant Compensation



# 7.7. Variables



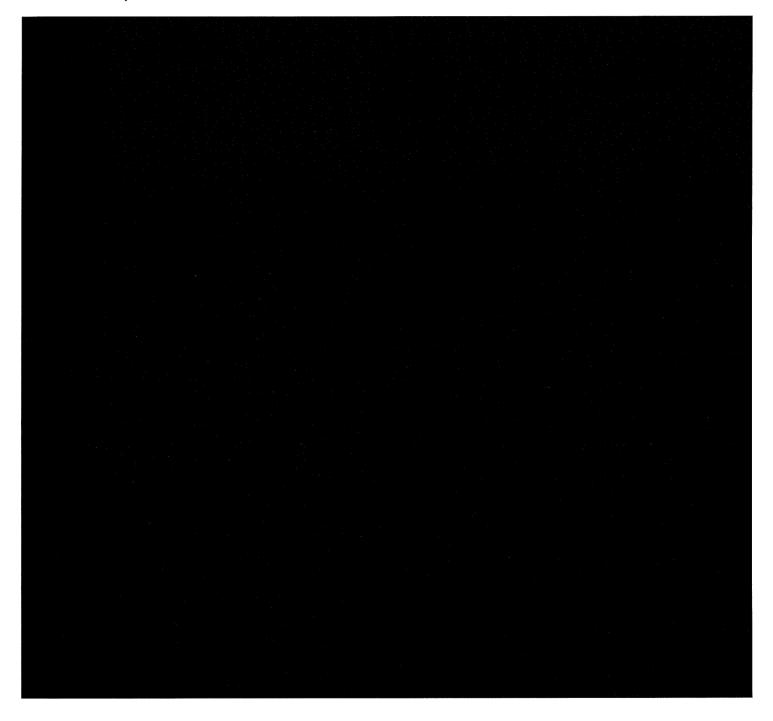


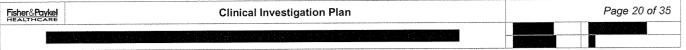


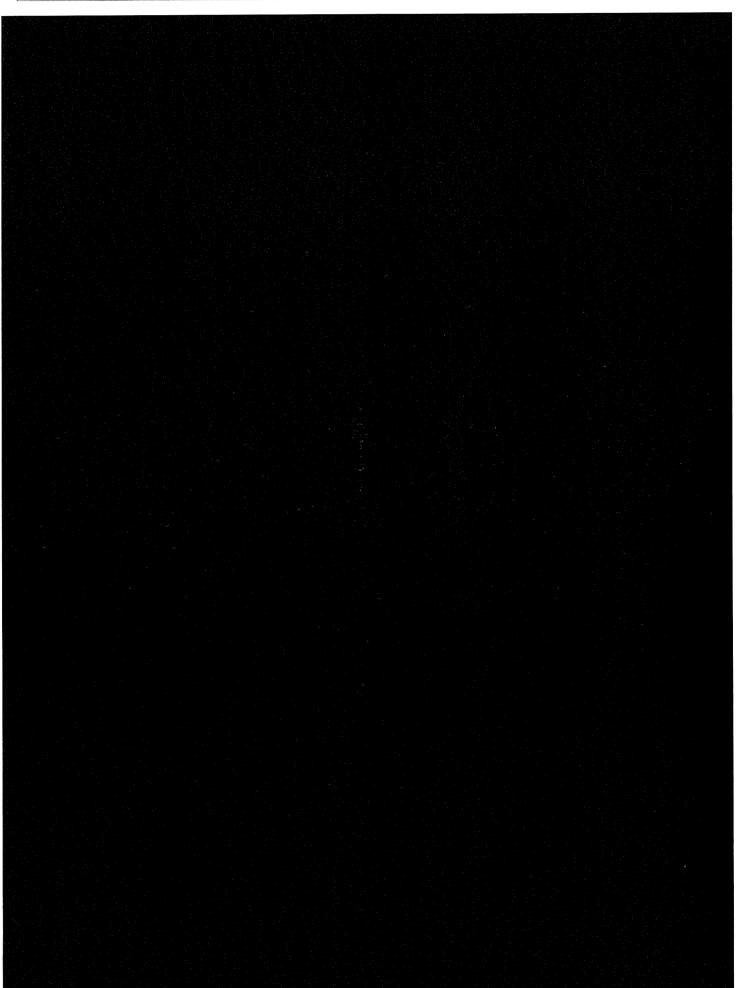
Page 18 of 35 Clinical Investigation Plan Fisher & Paykel

her&Paykel	Clinical Investigation Plan	Page 19 of 35

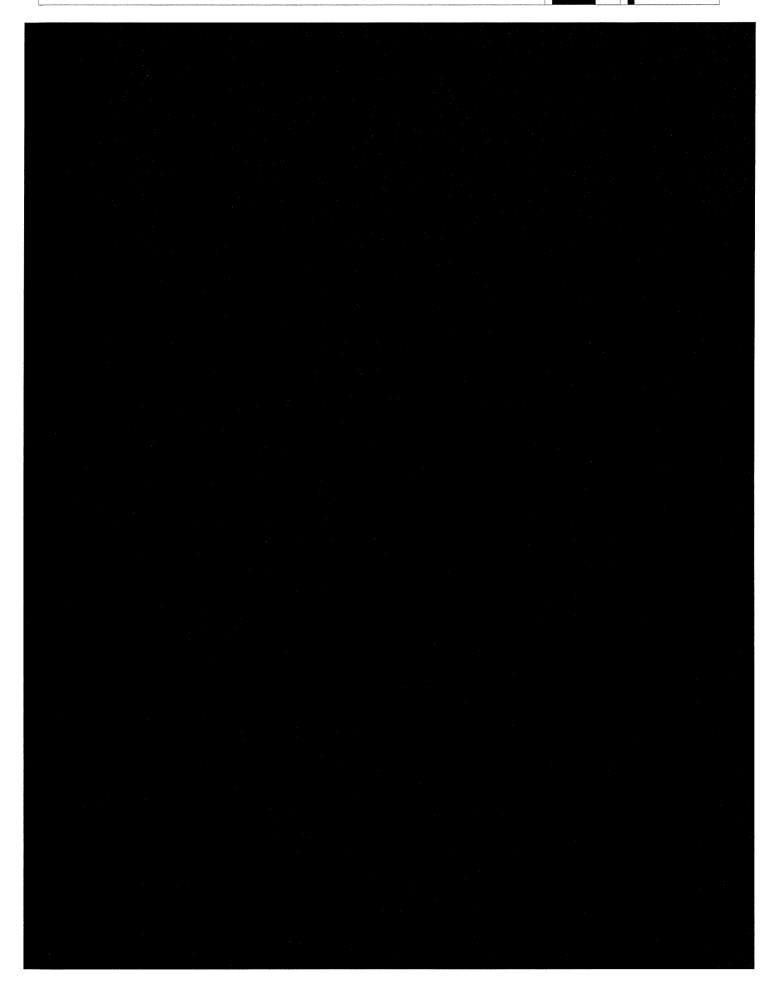
# 7.10. Participant Procedure







Fisher&Paykel	Clinical Investigation Plan	Page 21 of 35



Clinical Investigation Plan

Page 22 of 35

Additionally, the PI may withdraw a participant at any time for the following reasons:

- Protocol violation
- · Safety concerns
- · Serious illness
- AE/SAE

Fisher & Paykel

The reason for participant discontinuation in the clinical trial is to be recorded in the CRF.

### 7.12. Follow-Up Plan

Participants will receive standard care from their healthcare provider throughout and after the completion of the clinical trial.

### 7.13. Foreseeable Complications

From the Manufacturer and User Facility Device Experience database, the common reported injuries from PAP therapy and associated interface use are pressure sores, leading to cuts, rashes, and skin abrasions and breakdown. Allergic reaction to materials in the interface can occur. Common complaints are discomfort and soreness on the areas of contact with the interface. Participants on the clinical trial are informed that they can switch back to their usual mask if required. In instances of malfunction or damage, the investigational product and its components may be replaced, as recorded in the CRF.

# 8. Clinical Trial Documentation

### 8.1. Consent and Recruitment



### 8.2. Case Report Form

Fisher&Paykel	Clinical Investigation Plan	Page 23 of 35

### 8.4. Insurance Statement

8.5. Record of Deviations

# 9. Statistical Analysis

### 9.1. Statistical Design

Next, the following data analysis strategy will be employed.

- 1. For each participant and requirement, it will be determined if the requirement is met by the participants' response(s) to associated questions.
- 2. Minitab will be used to perform a one-sided one-proportion test on each requirement using the confidence limit to confirm that the acceptance criteria has been met:

 $H_0$ : proportion = Reliability Limit  $H_1$ : proportion > Reliability Limit Acceptance criteria:  $P \le 0.05$  to reject  $H_0$ 

FPH as the sponsor may consult an external statistician to assist with or review the analysis of the data.

### 9.2. Sample Size

The recruitment goal for the Toffee Full Face product validation will be 45 participants.

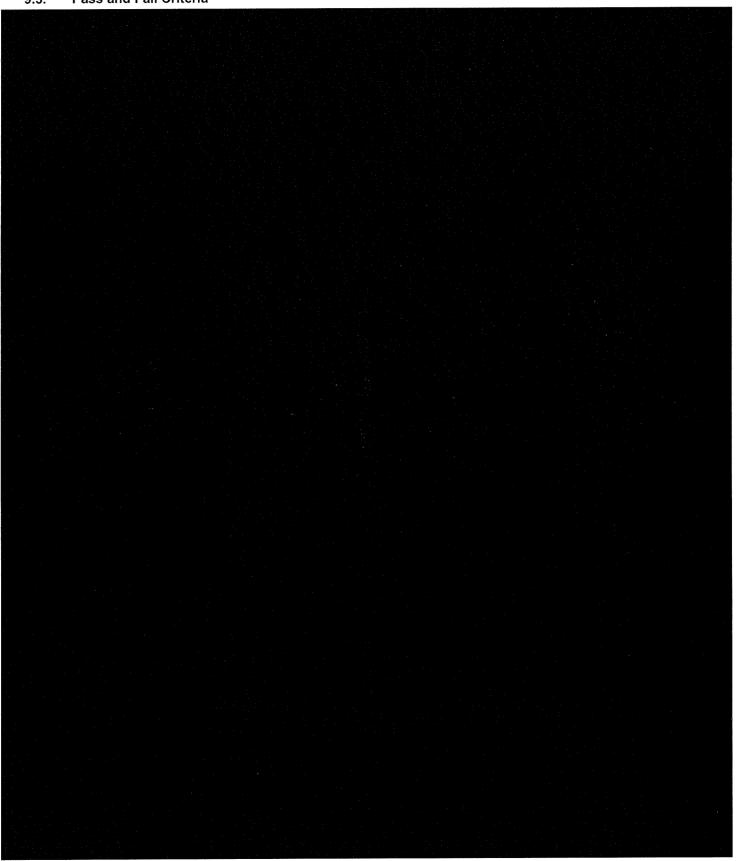
For each requirement challenged by the product validation, the outcome for each participant will be recorded as a pass or fail. Therefore, in order to evaluate the validation criteria, the analysis will be performed using a 95% confidence interval for the proportion of successes, where the lower confidence limit must be greater than the proportion pre-defined for each validation requirement.

The statistical power of this one-proportion test, i.e. the probability of not making a type II error, is determined by the sample size. To estimate an adequate sample size to achieve 80% power, the Minitab power and sample size tool was used. Data from the most recent clinical trial (TR-32203) was used as an estimate for the population proportion, this was recalculated at the test report stage with the actual proportion found, in order to confirm its validity. Where there was no comparable data from the past clinical trial, data from previous validation trials of recent products was leveraged. Formal calculation by validation requirement are present in TP-2163 but are not required to present individually here in this CIP. From the calculations, a sample size of 40 has been determined as the minimum sample size for 95% confidence across all requirements. Therefore, the recruitment goal for the Toffee Full face product

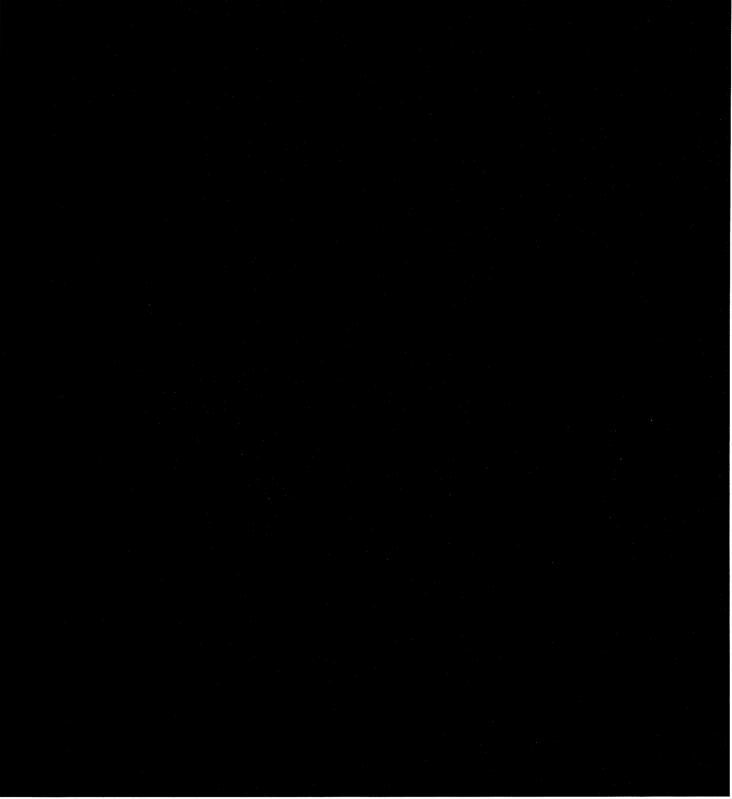
 Fisher&Paykel	Clinical Investigation Plan	Page 24 of 35

validation will be 45 participants to ensure that at least 40 participants complete the clinical investigation accounting for potential dropouts.

### 9.3. Pass and Fail Criteria



Fisher & Paykel	Clinical Investigation Plan	Page 25 of 35



# 9.4. Statistical Termination

No interim analysis will be conducted as statistical outcomes will not change the conduct of the clinical trial.

### 9.5. Statistical Procedure Deviations

Statistical procedure deviations will be reported to the PI and the sponsor. Deviations from the original statistical plan will be explained in the final investigation report.

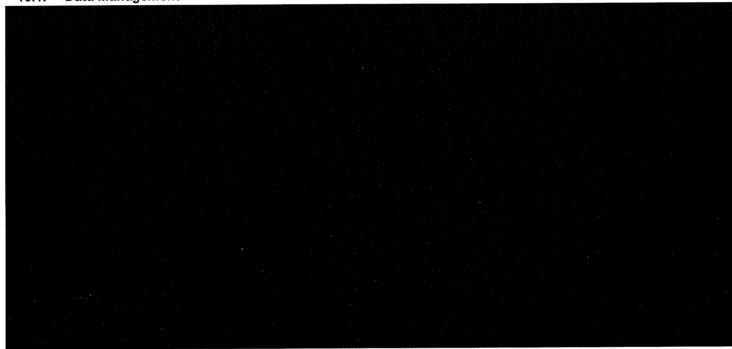
Fisher&Paykel	Clinical Investigation Plan	Page 26 of 35

### 9.6. Selection Criteria

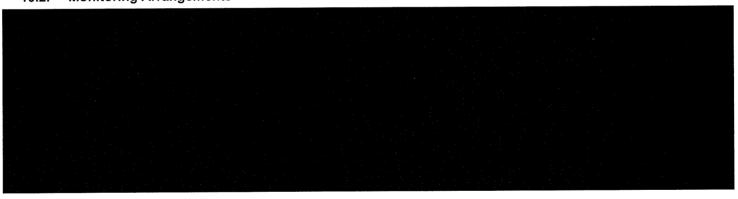
All participants who consent and whom are fitted with the Toffee Full Face mask and use in home, will be included in the analysis unless clear reason for exclusion are present such as definitive proof of wearing a different mask during the intervention period. Any data points that are excluded will be documented clearly with the reason for their exclusion.

# 10. Data Management

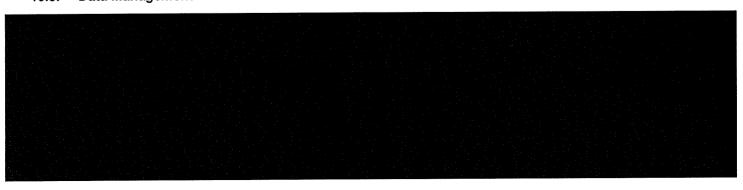
### 10.1. Data Management

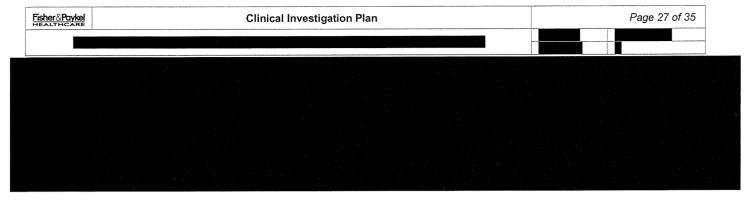


### 10.2. Monitoring Arrangements



### 10.3. Data Management





### 11. Adverse Events and Termination

An AE is any adverse change from the participant's baseline condition, and is considered as any unfavorable and unintended sign or symptom or disease that occurs over the course of the clinical trial, whether related or unrelated to PAP therapy. All clinically significant AEs occurring during the clinical trial that were not present prior to the commencement of PAP therapy, will be recorded in the CRF, source document, and Adverse Event Log, and followed up by the PI until resolution or stabilization occurs in accordance with GCP. The collection of AE data will commence once the participant is consented into the trial and up to 24 hours after the Toffee Full face mask is returned following and the participant has completed the study. After this 24-hour period, AE information will no longer be collected.

Serious adverse events (SAE) are considered those which result in any of the following outcomes, regardless of their relationship to PAP therapy:

- Death
- Life-threatening AE
- Unplanned in-patient hospitalization or prolongation of existing hospitalization
- Persistent or significant disability or incapacity
- Congenital abnormality or birth defect

All SAEs will be recorded on a Serious Adverse Event Form, and any additional material or medical records will be de-identified by the PI or CI before it is affixed to the document.

Due to the nature of the delivery of PAP therapy, there are a number of expected side effects that may occur when using the Toffee full-face mask. These are disclosed in the PIS/ICF and will be documented in the CRF but not as adverse events. These are also documented below in Section 11.2.

### 11.1. Emergency Contact Details

Name: Bhavi Ogra

Address: 15 Maurice Paykel Place, East Tamaki, Auckland 2013

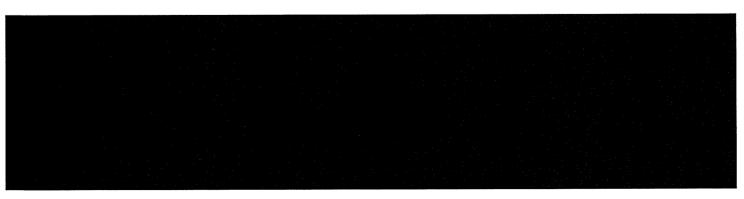
Phone: +64 09 574 0123 Ext 7882 Email: bhavi.ogra@fphcare.co.nz Professional Position: Clinical Research Manager

Name: Rebecca Thomson

Address: 15 Maurice Paykel Place, East Tamaki, Auckland 2013

Phone: +64 09 574 0123 Ext 7675
Email: rebecca.thomson@fphcare.co.nz
Professional Position: Senior Clinical Research Scientist

### 11.2. Foreseeable Adverse Events



Fisher&Paykel	Clinical Investigation Plan	Page 28 of 35

### 11.3. Reporting Adverse Events

Any SAEs, due to any cause, that occur during the clinical trial period, must be reported immediately, or within the next business day, by telephone to the sponsor. In addition to the initial telephone report, a SAEF must be completed and sent via email to the sponsor. All SAEs must also be recorded on the AE log. Additionally, all SAE's must be reported to HDEC as per HDECs reporting requirements.

### 11.4. Early Termination

The clinical trial may be discontinued at any time on the advice of the responsible investigator or on the basis of new information regarding safety or efficacy arising. Additionally, the clinical trial may be terminated if progress is unsatisfactory. The following documentation is required if the appropriate party terminates a clinical trial.

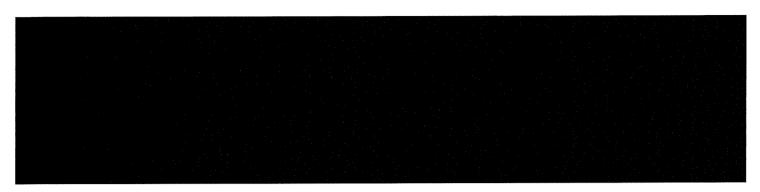
- PI: If the PI terminates or suspends a clinical trial without prior agreement of the sponsor, the PI should inform the institution, where required by the applicable regulatory requirements and the PI/institution should promptly inform the sponsor and HDEC, and should provide the sponsor and HDEC a detailed written explanation of the termination or suspension.
- Sponsor: If the sponsor terminates or suspends a clinical trial, the PI should promptly inform the institution, when and where required by the applicable regulatory requirements, and the PI/institution should promptly inform HDEC and provide a detailed written explanation of the termination or suspension.
- HDEC: If HDEC terminates or suspends its approval/favorable opinion of a clinical trial, the PI should inform the institution, when and where required by the applicable regulatory requirements. The PI/institution should promptly notify the sponsor and provide the sponsor with a detailed written explanation of the termination or suspension.

# 12. Publication Policy



Fisher & Paykel	Clinical Investigation Plan	Page 29 of 35

# 13. Approval

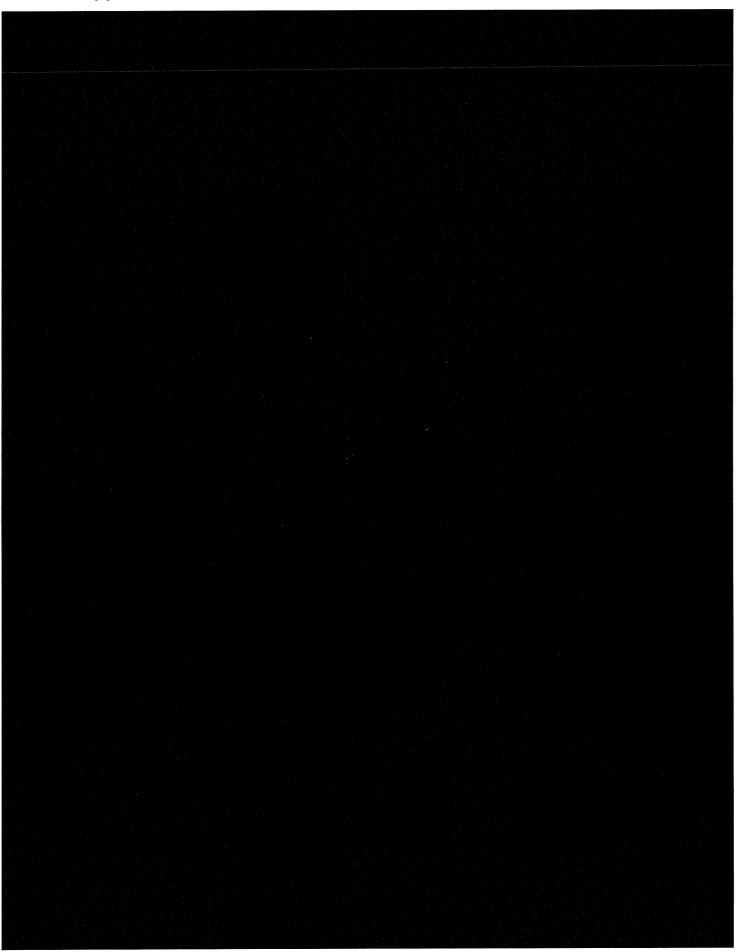


# 14. References

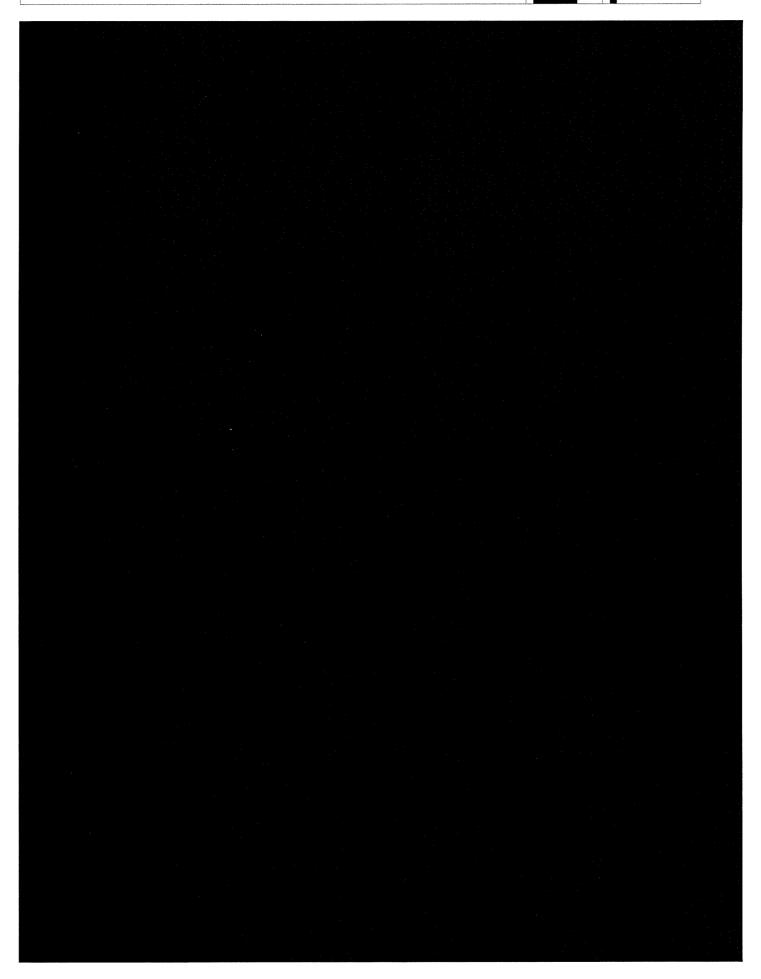
- 1. Senaratna, C. V. et al. Prevalence of obstructive sleep apnea in the general population: A systematic review. Sleep Medicine Reviews (2017).doi:10.1016/j.smrv.2016.07.002
- 2. Balachandran, J. S., Masa, J. F. & Mokhlesi, B. Obesity hypoventilation syndrome: Epidemiology and diagnosis. *Sleep Medicine Clinics* (2014). doi:10.1016/j.jsmc.2014.05.007
- 3. Aurora, R. N. *et al.* Practice parameters for the surgical modifications of the upper airway for obstructive sleep apnea in adults. *Sleep* (2010). doi:10.1093/sleep/33.10.1408
- 4. Sullivan, C. E., Berthon-Jones, M., Issa, F. G. & Eves, L. Reversal of Obstructive Sleep Apnoea by Continuous Positive Airway Pressure applied through the nares. *Lancet* (1981). doi:10.1016/S0140-6736(81)92140-1
- 5. Kryger, M., Roth, T. & Dement, W. Principles and Practice of Sleep Medicine. (Elsevier, 2016).
- 6. Ramar, K. et al. Clinical practice guideline for the treatment of obstructive sleep apnea and snoring with oral appliance therapy: An update for 2015. J. Clin. Sleep Med. (2015). doi:10.5664/jcsm.4858
- 7. Silva, R. S. *et al.* An orientation session improves objective sleep quality and mask acceptance during positive airway pressure titration. *Sleep Breath.* (2008). doi:10.1007/s11325-007-0138-6
- 8. 2018 Census place summaries | Stats NZ. Stats.govt.nz (2020). at < <a href="https://www.stats.govt.nz/tools/2018-census-place-summaries/new-zealand#ethnicity-culture-and-identity">https://www.stats.govt.nz/tools/2018-census-place-summaries/new-zealand#ethnicity-culture-and-identity></a>
- 9. Schwab RJ, Badr SM, Epstein LJ, Gay PC, Gozal D, Kohler M, Lévy P, Malhotra A, Phillips BA, Rosen IM, Strohl KP. An official American Thoracic Society statement: continuous positive airway pressure adherence tracking systems. The optimal monitoring strategies and outcome measures in adults. American journal of respiratory and critical care medicine. 2013 Sep 1;188(5):613-20. (16)
- 10. Baltzan MA, Dabrusin R, Garcia-Asensi A, Sully JL, Parenteau M, Tansimat G, Kassissia I, Wolkove N. Leak profile inspection during nasal continuous positive airway pressure. Respiratory care. 2011 May 1;56(5):591-5. (17)
- 11. Teschler H, Stampa J, Ragette R, Konietzko N, Berthon-Jones M. Effect of mouth leak on effectiveness of nasal bilevel ventilatory assistance and sleep architecture. European Respiratory Journal. 1999 Dec 1;14(6):1251-7. (18)

Fisher&Paykel	Clinical Investigation Plan	Page 30 of 35	

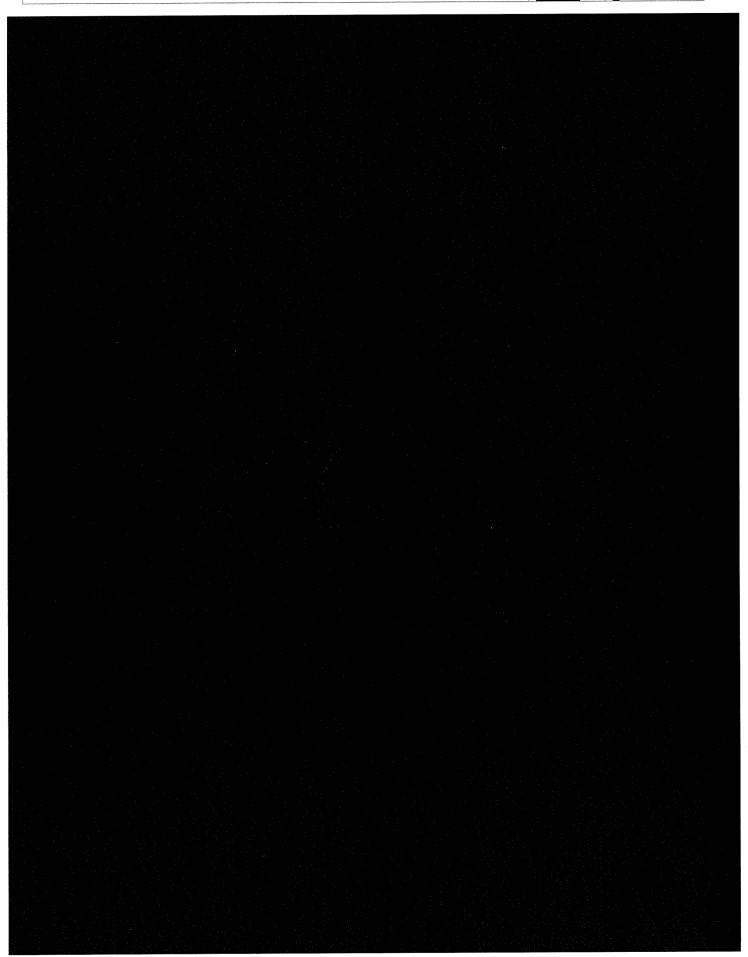
# 15. Appendix



Fisher&Paykel	Clinical Investigation Plan	Page 31 of 35



Fisher & Paykel	Clinical Investigation Plan	Page 32 of 35



Fisher&Paykel	Clinical Investigation Plan	Page 33 of 35

