Appendix 1 QUESTIONNAIRE

Access to primary healthcare and ambulatory care sensitive hospitalisations in the Maldives

A. Identification:	Core SAV – Coding category
Cluster region	Coding category 100 - 106
Island name	
Island population	
category	
Hospital name	
Participant ID	
Participant type	
Participant category	
Island population category codes:	
1. High population	
2. Average population	
3. Low population	
Participant type codes:	
1. Hypertension	
2. Diabetes	
3. Chronic heart failure	
4. Chronic obstructive pulmonary disease	
5. Asthma	
Participant category codes:	
 Hospitalised for consequences of ACSCs 	
2. Not hospitalised for consequences of ACSCs	S

B. Interviewer visits (Core SAV – coding category 107 – 110)					
	Visit 1	Visit 2	Visit 3	Final visit	
Date (Day/month/year)					
Visit time					
Interviewer name					
Outcome					

Outcome codes:

- 1. Completed
- 2. Potential respondent not at home
- 3. Potential respondent not located due to change in address
- 4. Postponed
- 5. Refused

C. Language of questionnaire	Core SAV – Coding category		
English	Coding category 111		
Dhivehi			
Language codes:			
1. Dhivehi			
2. English			

Interviewer: please read slowly and distinctly. My name is ----- (interviewer's name). I am conducting an interview on behalf of Fazeela Mohamed a doctoral research student from University of Canterbury, New Zealand. I am interested to collect data, to assess how differing levels of self-reported access to primary health care services influences ambulatory care sensitive hospitalisations in the Maldives, facilitated by transportation, travel time, and trust in provider. The data gathered via this questionnaire will be merely used for the stated research purpose. Your honesty in responding the questions will bring about reliable information. Your answers will be secured and any information that might identify you will not be linked to answers or written outputs and publications. If you need further information you may contact the primary researcher, and supervisors listed on this card. 'Give the card with contact details'. You could find additional information at the back of this card. Please read carefully. You may ask any question relevant to this information card. By signing the consent form you agree to participate in this study willingly. However, you can withdraw answering, at any stage. You don't have to answer all the questions either. You can notify me if you don't want to answer a particular question. *Interviewer: Do you have any questions?* 1. Yes – answer to respondents questions and proceed 2. No-Give the consent form to sign Participant's consent Tick √ I confirm that I have understood the information card provided about the study. I was given the opportunity to ask questions and clarify my doubts I understand that my participation is voluntary and I am free to stop at any

I understand by agreeing to participate I am willing to be interviewed by the interviewer, audio-taped, make myself available if further information is required, and allow the researchers to access my personnel hospital records.

I give permission to use the information given for the research purpose of

stage without giving any reason.

this particular study

1. I agree to be interviewed	Signature:
2. I do not agree to be interviewed	Signature:

Interviewer to fill		
	w of the questionnaire and er ime to clarify the participant	ncouraged the participant to ask questions t's doubts.
Name:		
Signature:	Dat	te:
•		inue – Record time d – end – Record time
SECTION A – SOCIO	-DEMOGRAPHICS	
Interviewer: I am going	g to ask some general questio	ons about you.
Question ID: SOD 112	Variable name	e: Sex Core: SOD
Question text: A	are you male or female?	
Response code:		
1. Male		
2. Female		
D. Don't know		
R. Refused		
Question ID: SOD 113	Variable name	e: Dob Core: SOD
Question text: H card)	low old were you at your last	t birthday? (Verify from national identity
Response code:		
Age in completed years	(enter number)	for age)
D. Don't know		

Question ID: SOD 114 **Variable name:** Marital **Core:** SOD

Question text: What is your marital status?

Response code:

- 1. Single
- 2. Married

R. Refused

3. Widowed

- 4. Divorced
- 5. Separated
- D. Don't know
- R. Refused

Question ID: SOD 115 Variable name: Education Core: SOD

Question text: What is the highest level of school you have completed?

Response code:

- 1. Never attended
- 2. Primary
- 3. Secondary
- 4. College (Certificate and Diploma)
- 5. Associate degree
- 6. Bachelor's degree
- 7. Master's degree
- 8. Doctoral degree
- D. Don't know
- R. Refused

Question ID: SOD 116 Variable name: Employment Core: SOD

Question text: Which of these statements best describes your current work situation?

Response code:

- 1. Working in paid employment (includes self-employment)
- 2. Not in paid work, and looking for a job
- 3. Not in paid work and not looking for a job (for any reason, such as being retired, a homemaker, caregiver, or full-time student)
- D. Don't know
- R. Refused

Question ID: SOD 117 Variable name: Income Core: SOD

Question text: What is the total income that you yourself got from all sources, in the last 12 months? (*Convert the amount to USD at the rate of 15.42*)

- 1. Zero income
- 2. \$1 \$5000
- 3. \$5001 \$10,000
- 4. \$10,001 \$15,000
- 5. \$15,001 \$20,000
- 6. \$20,001 \$25,000
- 7. \$25,001 or more
- D. Don't know
- R. Refused

SECTION B – HEALTH INFORMATION

Interviewer: Now I am going to ask you certain questions related to health

Question ID: HEI 118 Variable name: Health-status Core: HEI

Question text: Would you say your health in general is excellent, very good, good,

fair, or poor?

Response code:

- 1. Poor
- 2. Fair
- 3. Neither good nor fair
- 4. Good
- 5. Very good
- D. Don't know
- R. Refused

Interviewer note: Ask questions HEI 119 to 123 as per following.

Participant type codes:

- 1. Hypertension HEI 119 Skip HEI 120, 121, 122, and 123.
- 2. Diabetes HEI 120 Skip HEI 119, 121, 122, and 123.
- 3. Chronic heart failure HEI 121 Skip HEI 119, 120, 122, and 123.
- 4. Chronic obstructive pulmonary disease HEI 122 Skip HEI 119, 120, 121, and 123.
- 5. Asthma HEI 123 Skip HEI 119, 120, 121, and 122.

Question ID: HEI 119 Variable name: Knowledge-disease-hypertension Core: HEI

Question text: Have you ever been explained by a doctor or other health professional that you had hypertension, also called high blood pressure?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HEI 120 Variable name: Knowledge-disease-diabetes Core: HEI

Question text: Have you ever been explained by a doctor or other health professional that you had diabetes (*If the respondent is female*, *please do not include diabetes during pregnancy also called gestational diabetes*)?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HEI 121 Variable name: Knowledge-disease-CHF Core: HEI

Question text: Have you ever been explained by a doctor or other health professional that you had chronic heart failure? That is, inadequate heart pumping, or a build-up of fluid in the lungs or legs.

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree

- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HEI 122 Variable name: Knowledge-disease-COPD Core: HEI

Question text: Have you ever been explained by a doctor or other health professional that you had chronic obstructive pulmonary disease C.O.P.D., emphysema, or chronic bronchitis?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HEI 123 Variable name: Knowledge-disease-asthma Core: HEI

Question text: Have you ever been explained by a doctor or other health professional that you had asthma?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HEI 124 Variable name: Knowledge-disease-treatment Core: HEI

Question text: Have you ever been explained by a doctor or other health professional what treatments do you have for your condition?

Response code:

1. Strongly disagree

- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HEI 125 **Variable name:** Hospitalisation **Core:** HEI

Question text: In the last 12 months, if you have been hospitalised in a public hospital for one or more of the following conditions can you name the hospital?

Response code:

1. (Cerebrovascular	accident - ir	itracerebral hae	morrhage and	ischaemic	stroke	
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- 2. Respiratory failure ------
- 3. Chronic heart failure -----
- 4. Retinopathy -----
- 5. Renal failure -----
- 6. Gangrene -----
- 3. None
- D. Don't know
- R. Refused

SECTION C – HEALTH SERVICE UTILISATION AND PATIENT EXPERIENCE

Interviewer: Now I am going to ask you certain questions about your use of primary care services in the Maldives

Question ID: HSU 126 Variable name: General-physician-visit Core: HSU

Question text: In the past 12 months, have you been able to reach a general physician, or been visited by a general physician, about your own health? *By health, I mean your physical health*

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree

- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 127 **Variable name:** Type-health-facility-usual **Core:** HSU

Question text: What sort of healthcare service you usually go to when you are feeling unwell or injured? (*This is to see a general physician*)

Response code:

- 1. Island health centre
- 2. Atoll hospital
- 3. Regional hospital
- 4. Indira Gandhi Memorial Hospital
- 5. Other
- D. Don't know
- R. Refused

Question ID: HSU 128 Variable name: Usual-experience-communication Core: HSU

Question text: Thinking about your last visit to a general physician (*in your usual health care facility*), how good was the doctor at explaining your health conditions and treatments in a way that you could understand?

Response code:

- 1. Poor
- 2. Fair
- 3. Neither good nor fair
- 4. Good
- 5. Very good
- D. Don't know
- R. Refused

Question ID: HSU 129 **Variable name:** Usual-experience-treatment-decisions **Core:** HSU

Question text: How good was the general physician (*in your usual health care facility*) at involving you in decisions about your care, such as discussing different treatment options?

Response code:

- 1. Poor
- 2. Fair
- 3. Neither good nor fair
- 4. Good
- 5. Very good
- D. Don't know
- R. Refused

Question ID: HSU 130 Variable name: Usual-experience-patient-management Core: HSU

Question text: Over the 12 months, has someone at your usual health centre or hospital either carried out or arranged for you to have weight and height measurement (*for body mass index*), advice to be physically active, blood pressure test, or diabetes test?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 131 Variable name: Usual-experience-risk-management Core: HSU

Question text: Over the 12 months, has someone at your usual health centre or hospital talked with you or arranged for someone else to talk with you, about smoking, healthy food or nutrition, weight, exercise or physical activity, alcohol or drugs?

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know

Question ID: HSU 132 **Variable name:** Usual-waiting-time-satisfaction **Core:** HSU

Question text: Thinking about the experience with the general physician, were you completely satisfied, somewhat satisfied, neither satisfied nor dissatisfied, somewhat dissatisfied or not at all satisfied with the amount of time you had to wait to see the doctor? (*This is the healthcare service you usually go to when you are feeling unwell or injured*)

Response code:

- 1. Not at all satisfied
- 2. Somewhat dissatisfied
- 3. Neither satisfied nor dissatisfied
- 4. Somewhat satisfied
- 5. Completely satisfied
- D. Don't know
- R. Refused

Question ID: HSU 133 Variable name: Health-facility-usual-trust Core: HSU

Question text: Did you have confidence and trust in the general physician you see? (From that particular health facility)

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Interviewer note: Ask questions 134 to 140 if patient goes to a different health care facility to seek primary health care than his or her own island hospital – check the question HSU 127 and hospital name in identification to verify whether the patient sees general physician from a different hospital than he or she is resided.

Question ID: HSU 134 **Variable name:** Health-facility-island **Core:** HSU

Question text: When was the last time you saw a general physician about your own health from your island hospital or health centre?

Response code:

- 1. Within the last one month
- 2. More than one month ago and less than three month
- 3. More than three months ago and less than six months
- 4. More than 6 months ago and less than 12 months
- 5. More than 12 months
- D. Don't know
- R. Refused

Question ID: HSU 135 **Variable name:** Island-experience-communication **Core:** HSU

Question text: Thinking about your last visit to a general physician in your island, how good was the doctor at explaining your health conditions and treatments in a way that you could understand?

Response code:

- 1. Poor
- 2. Fair
- 3. Neither good nor fair
- 4. Good
- 5. Very good
- D. Don't know
- R. Refused

Question ID: HSU 136 Variable name: Island-experience-treatment-decisions Core: HSU

Question text: How good was the general physician in your island at involving you in decisions about your care, such as discussing different treatment options?

- 1. Poor
- 2. Fair
- 3. Neither good nor fair
- 4. Good
- 5. Very good
- D. Don't know
- R. Refused

Question ID: HSU 137 Variable name: Island-experience-patient-management Core: HSU

Question text: Over the 12 months, has someone at your island health centre or hospital either carried out or arranged for you to have weight and height measurement (*for body mass index*), advice to be physically active, blood pressure test, or diabetes test?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 138 Variable name: Island-experience-risk-management Core: HSU

Question text: Over the 12 months, has someone at your island health centre or hospital talked with you or arranged for someone else to talk with you, about smoking, healthy food or nutrition, weight, exercise or physical activity, alcohol or drugs?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 139 **Variable name:** Waiting-time-satisfaction **Core:** HSU

Question text: Thinking about the experience with the general physician, were you completely satisfied, somewhat satisfied, neither satisfied nor dissatisfied, somewhat dissatisfied or not at all satisfied with the amount of time you had to wait to see the doctor? (*This is the health care service your island*)

- 1. Not at all satisfied
- 2. Somewhat dissatisfied

- 3. Neither satisfied nor dissatisfied
- 4. Somewhat satisfied
- 5. Completely satisfied
- D. Don't know
- R. Refused

Question ID: HSU 140 Variable name: Health-provider-island-trust Core: HSU

Question text: Did you have confidence and trust in the general physician you saw from your island hospital or health centre?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 141 Variable name: Trust-GP Core: HSU

Question text: In the past 12 months, was there a time when you had a medical problem but did not visit a general physician because you do not trust in general physician?

Response code:

- 1. Extremely difficult
- 2. Very difficult
- 3. Somewhat difficult
- 4. Not too difficult
- 5. Not at all difficult
- D. Don't know
- R. Refused

Question ID: HSU 142 Variable name: Access-need Core: HSU

Question text: In the past 12 months, has there been a time you needed medical care but did not get it?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 143 Variable name: Reason-last-visit-IGMH Core: HSU

Question text: Thinking about the main reason you last visited to Indira Gandhi Memorial Hospital for your own health, was the confident and trust in Indira Gandhi Memorial Hospital than island health centre / atoll hospital / regional hospital you went there?

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 144 Variable name: Transport-sea-home-hospital Core: HSU

Question text: In the past 12 months, was there a time when you had medical problem, but did not visit a general physician because you had no public transport (ferry) to get there?

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know

Question ID: HSU 145 Variable name: Transport-land-home-hospital Core: HSU

Question text: In the past 12 months, was there a time when you had medical problem but did not visit a general physician because you had no public transport by land to get there? **Response code:**

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 146 **Variable name:** Transport-cost **Core:** HSU

Question text: In the past 12 months, was there a time when you had a medical problem but did not visit a general physician because of the transport cost? (*This includes referral to atoll and regional hospitals not covered by Asandha – universal health coverage*)

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 147 Variable name: Transport-cost-satisfaction Core: HSU

Question text: Thinking about the experience with the general physician, were you completely satisfied, somewhat satisfied, neither satisfied nor dissatisfied, somewhat dissatisfied or not at all satisfied with the cost of transport you used to reach there? (*This is the healthcare service you usually go to when you are feeling unwell or injured*)

Response code:

1. Not at all satisfied

- 2. Somewhat dissatisfied
- 3. Neither satisfied nor dissatisfied
- 4. Somewhat satisfied
- 5. Completely satisfied
- D. Don't know
- R. Refused

Question ID: HSU 148 Variable name: Transport-mode-satisfaction Core: HSU

Question text: Thinking about the experience with the general physician, were you completely satisfied, somewhat satisfied, neither satisfied nor dissatisfied, somewhat dissatisfied or not at all satisfied with the mode of transport you used to reach there? (*This is the healthcare service you usually go to when you are feeling unwell or injured*)

Response code:

- 1. Not at all satisfied
- 2. Somewhat dissatisfied
- 3. Neither satisfied nor dissatisfied
- 4. Somewhat satisfied
- 5. Completely satisfied
- D. Don't know
- R. Refused

Question ID: HSU 149 Variable name: Transport-in-land Core: HSU

Question text: Thinking about the experience with the general physician, what was the mode of transport you used to reach the healthcare provider for in-land travel? (*This is the healthcare service you usually go to when you are feeling unwell or injured*)

- 1. Foot
- 2. Bicycle
- 3. Motorbike
- 4. Car, van, lorry, and pick-up
- D. Don't know
- R. Refused

Question ID: HSU 150 **Variable name:** Transport-within-islands **Core:** HSU

Question text: Thinking about the experience with the general physician, what was the mode of transport you used to reach the healthcare provider to travel between islands? (*This is the healthcare service you usually go to when you are feeling unwell or injured*)

Response code:

- 1. Boat ferry
- 2. Speed boat
- 3. Flight
- 4. Not applicable
- D. Don't know
- R. Refused

Question ID: HSU 151 Variable name: Travel-time-in-land Core: HSU

Question text: Thinking about the experience with the general physician, what was the amount of time you took to reach the healthcare provider to travel within the island? (*This is the healthcare service you usually go to when you are feeling unwell or injured*)

Response code:

- 1. 1 to 15 minutes
- 2. 16 to 30 minutes
- 3. 31 to 45 minutes
- 4. 46 to 60 minutes
- 5. More than 60 minutes
- D. Don't know
- R. Refused

Question ID: HSU 152 **Variable name:** Travel-time-within-islands **Core:** HSU

Question text: Thinking about the experience with the general physician, what was the amount of time you took to reach the healthcare provider to travel between the islands? (*This is the healthcare service you usually go to when you are feeling unwell or injured*)

- 1. 1 to 15 minutes
- 2. 16 to 30 minutes
- 3. 31 to 45 minutes
- 4. 46 to 60 minutes

- 5. More than 60 minutes
- 6. Not applicable
- D. Don't know
- R. Refused

Question ID: HSU 153 **Variable name:** Travel-time-satisfaction **Core:** HSU

Question text: Thinking about the experience with the general physician, were you completely satisfied, somewhat satisfied, neither satisfied nor dissatisfied, somewhat dissatisfied or not at all satisfied with the amount of time it took you to get there? (*This is the healthcare service you usually go to when you are feeling unwell or injured*)

Response code:

- 1. Not at all satisfied
- 2. Somewhat dissatisfied
- 3. Neither satisfied nor dissatisfied
- 4. Somewhat satisfied
- 5. Completely satisfied
- D. Don't know
- R. Refused

Question ID: HSU 154 **Variable name:** Travel-time-cost **Core:** HSU

Question text: In the past 12 months, was there a time when you had a medical problem but did not visit a general physician because of the travel time? (*This is the healthcare service you usually go to when you are feeling unwell or injured*)

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 155 **Variable name:** Payment-method-transport **Core:** HSU

Question text: Thinking about the experience with the general physician, were you completely satisfied, somewhat satisfied, neither satisfied nor dissatisfied, somewhat dissatisfied or not at all satisfied with the payment method for transport you used to reach there? (This is the healthcare service you usually go to when you are feeling unwell or injured)

Response code:

- 1. Not at all satisfied
- 2. Somewhat dissatisfied
- 3. Neither satisfied nor dissatisfied
- 4. Somewhat satisfied
- 5. Completely satisfied
- D. Don't know
- R. Refused

Question ID: HSU 156 Variable name: Payment method-medication Core: HSU

Question text: In the past 12 months, was there a time when you got a prescription for yourself but did not collect one or more prescription items from the pharmacy or chemist because of cost? (*Not covered by Asandha*)

Response code:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree
- D. Don't know
- R. Refused

Question ID: HSU 157 **Variable name:** Access-difficult **Core:** HSU

Question text: Overall, how difficult is it for you to get medical care when you need it?

- 1. Extremely difficult
- 2. Very difficult
- 3. Somewhat difficult

- 4. Not too difficult
- 5. Not at all difficult
- D. Don't know
- R. Refused

END OF QUESTIONNAIRE

Interviewer: On behalf of Fazeela Mohamed and her supervisory team, I thank you for talking with me about your health. I would like to reassure you that your answers will remain confidential.