Supplementary Table S1: Definitions used for cardiovascular risk factors

Risk factor	Definition
Hypertension	Prior medical diagnosis, or current use of antihypertensive agents.
Diabetes	Known history of diabetes with or without active utilization of diabetes medications
Hyperlipidaemia	Total cholesterol greater than 5.17 mmol/L; or LDL greater than or equal to 3.36 mmol/L; or, High-density lipoprotein (HDL) less than 1.03 mmol/L and for patients with known CAD, treatment is initiated if LDL is greater than 2.59 mmol/L
Smoking history	Current smoker: if the patients has been smoking cigarettes currently daily or non-daily.; Former smoker: the patient has not smoked cigarettes during the last year; No smoking history: if the patient has never smoked cigarettes
Family history	Direct relatives who have had any of the following at age less than 55 years for male relatives or less than 65 years for female relatives: Angina, acute MI, sudden cardiac death without obvious cause, coronary bypass grafting surgery (CABG) and PCI.

Supplementary Figure S1: Front page of CADOSA Data form.

CADOSA — **Coronary Angiogram Database of South Australia**
Diagnostic Catheterisation and Percutaneous Coronary Intervention Registry

FACILITY 1010

○ **CW** ○ **FMC** ○ **LMH** ○ **RAH** ○ TQEH

Patient in Follow-up Study? 1020 ○ No ○ Yes

PART A: DEMOGRAPHICS

Surname 2000:

First Name 2010:

Middle Name 2020:

Medicare No 2030: |___||___||___||___||___||___||___||___||___||___||___| **Patient UR** 2040: |___||___||___||___||___||___||___||___||___||___|

Post Code 3005: |___||___||___||___| **Postcode N/A** 3006: ☐ **Date of Birth** 2050: |___||___|dd |___||___|mm |___||___||___||___|yyyy **Gender** 2060: ○ **M** ○ **F**

Ethnicity: ☐ Caucasian 2070 ☐ Indigenous/Torres Strait Islander 2071 ☐ Asian 2072 ☐ Hispanic 2073
☐ African 2074 ☐ Sub-Continent 2075 ☐ Other 2076,2077 (specify) _____

PART B: EPISODE OF CARE and CHEST PAIN EVALUATION

Arrival to Cath Facility Date 3000: |___||___|dd |___||___|mm 20|___||___|yyyy **Time** 3001: |___||___|hh : |___||___|mm 24 hr

Referral Source 3010: ○ Emergency Department ○ Admissions Office ○ Current In-patient ○ Transfer in From Other Acute Care Facility

Payer for Episode of Care 3020: ○ Private Health Insurance ○ Medicare Only ○ Veteran Gold Card ○ Other

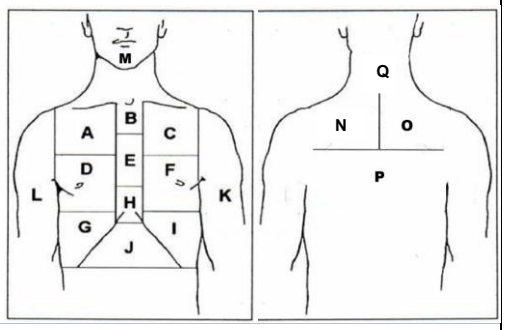
Transport to Cath Facility 3040: ○ Self ○ SAAS ○ Air Ambulance ○ MedSTAR ○ Inter-hospital transfer – Air ○ Inter-hospital transfer – road

THE FOLLOWING QUESTIONS RELATE TO THE CHEST PAIN SYMPTOMS PROMPTING THIS DIAGNOSTIC CATHERTERISATION

Chest Pain Prompting this Diagnostic Catheterisation 3041: ○ No ○ Yes ○ Unknown → If yes, complete below

Location of Chest Pain: (check all that apply)

☐ A 3042 ☐ B 3043 ☐ C 3044
☐ D 3045 ☐ E 3046 ☐ F 3047
☐ G 3048 ☐ H 3049 ☐ I 3050
☐ J 3051 ☐ K 3052 ☐ L 3053
☐ M 3054 ☐ N 3055 ☐ O 3056
☐ P 3057 ☐ Q 3058 ☐ Other 3059
☐ Unknown 3060



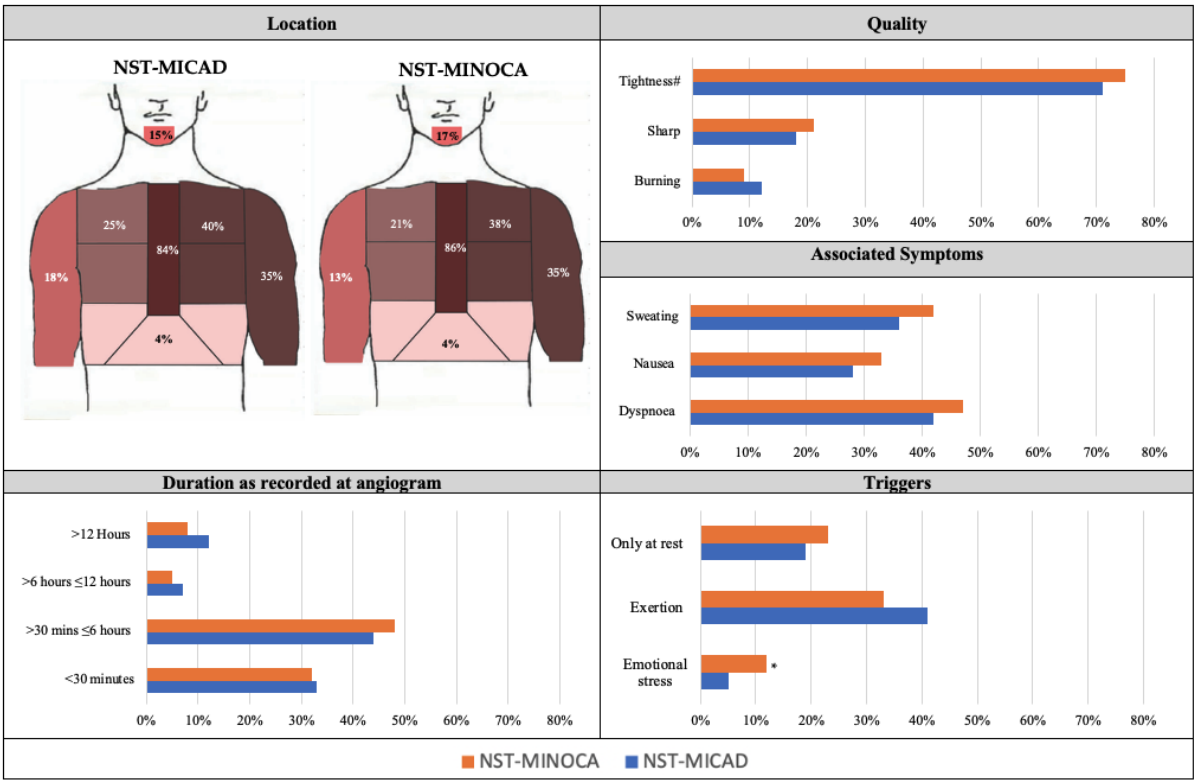
Quality of Chest Pain: ☐ Burning 3061 ☐ Squeezing 3062 ☐ Tightness 3063 ☐ Sharp 3064 ☐ Heavy 3065 ☐ Other 3066, 3067 _____ ☐ Unknown 3068

Precipitating Factors: ☐ Exertion 3069 ☐ Meals 3070 ☐ Emotional Stress 3071 ☐ Cold Weather 3072 ☐ Nocturnal 3073 ☐ Lying Down 3074 ☐ Pleuritic 3075 ☐ Only at Rest 3076 ☐ Other 3077, 3078 _____ ☐ Unknown 3079

Relieving Factors: ☐ Rest 3080 ☐ Nitrates (<5 mins) 3081 ☐ Nitrates (> 5 mins) 3082 ☐ Antacids 3083 ☐ Other 3084, 3085 _____ ☐ Unknown 3086

Associated Symptoms: ☐ Tachypnea 3087 ☐ Rapid Palpitations 3088 ☐ Pre-syncope/syncope 3089 ☐ Post-pain fatigue 3090 ☐ Nausea/vomiting 3091 ☐ Sweating 3092 ☐ Chest Wall Tenderness 3093 ☐ Other 3094, 3095 _____ ☐ None 3096 ☐ Dyspnea 3097 ☐ Unknown 3098

Typical Duration 3099 ○ ≤ 15 seconds ○ > 15 seconds ≤ 15 minutes ○ > 15 minutes ≤ 30 minutes ○ > 30 minutes ≤ 60 minutes ○ > 60 minutes ≤ 2 hours ○ > 2 hours ≤ 6 hours ○ > 6 hours ≤ 12 hours ○ > 12 hours ○ Unknown



Supplementary Figure S2: Chest pain characteristics of NST-MICAD and NST-MINOCA patients. NST - MICAD, Non ST elevation myocardial infarction with coronary artery disease; NST-MINOCA, Non ST elevation myocardial infarction with non-obstructive coronary arteries; h, hours; m, minutes. #Tightness is a pooled analysis including chest pain characteristics: tightness, heaviness and squeezing. * *p*-value <0.05.