leview began 01/08/2024 leview ended 01/28/2024 Published 02/01/2024

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Risk Factors of Cardiovascular and Cerebrovascular Events in Patients With Uraemia **Complicated With Hypertension During Maintenance Haemodialysis Treatment**

DOI: 10.7759/cureus.53411

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Abstract

Introduction: This study aimed to investigate the risk factors associated with major adverse cardiovascular (group of events that affect heart and blood vessels) and cerebrovascular (events affecting blood vessels supplying the brain) events (MACCE) in patients with uraemia complicated with hypertension who required. maintenance haemodialysis (MHD) treatment.

Methodology: Clinical data and laboratory indicators of 156 uraemia patients complicated with hypertension were collected and retrospectively analysed. The patients were admitted to a tertiary care hospital (Abbas Institute of Medical Sciences AIMS) in Muzaffarabad, Pakistan, from February 2018 to February 2022. The data was collected through consecutive sampling and patients were recruited after following the inclusion and exclusion criteria

Results: Eighty-one out of 156 patients were not complicated with MACCE, and 75 patients were complicated with MACCE during the MHD treatment cycle, with an incidence of 48.08%. Compared to the non-MACCE group, the MACCE group's diabetes, body mass growth rate, triglyceride (TG), NT-proBNP, standard deviation and coefficient of variance for systolic and diastolic blood pressure (SBP-SD, SBP-CV, DBP-SD, and DBP-CV) showed significant differences (P<0.05) between the groups. Diabetes, body mass growth rate, TG, NT-proBNP, SBP-SD, SBP-CV, DBP-SD, and DBP-CV with odds ratios of 3.074, 3.202, 2.188, 2.512, 2.357, 2.431, 2.299, and 2.062 respectively were risk factors for MACCE in uraemia patients with

Conclusion: From the results of this study, we inferred that patients with uraemia and hypertension complicated by MACCE in the treatment cycle of MHD were related to diabetes, body mass growth rate. TG NT-proBNP, SBP-SD, SBP-CV, DBP-SD, and DBP-CV.

Categories: Cardiology, Palliative Care, Nephrology

Keywords: risk factors, cardiovascular and cerebrovascular events, maintenance haemodialysis, hypertension, uraemia

Introduction

Uraemia, short for the uremic stage of chronic kidney disease, is the terminal stage of the development of Chronic renal failure and is also a common clinical syndrome in the advanced stages of various kidney diseases [1]. Haemodialysis can replace the human kidney to complete the body's metabolism, remove metabolic waste in the body, and maintain the balance of water, electrolytes, acids, and bases, ultimately ensuring the stability of the internal environment and achieving the purpose of prolonging the survival of patients. Haemodialysis is a widely used and effective method for the treatment of uraemia [2]. With the continuous development of blood purification technology, the survival rate of patients with uraemia has improved significantly [3]. However, in the process of maintenance haemodialysis (MHD), patients often improved significantly [9]. However, in the process of maintenance intermodularysis (winth), patients of develop hypertension (chronic rise in blood pressure). It increases the incidence of major adverse cardiovascular and cerebrovascular events (MACCE) and mortality [4]. Relevant research findings sho that cardiovascular disease and cerebrovascular diseases are important risk factors for death in MHD patients, with mortality risks of 56% and 11%, respectively [5]. In the treatment cycle of MHD, there are many factors that cause MACCE in uraemia patients with hypertension, but there has been no unified understanding thus far. Reducing the occurrence of MACCE in the treatment cycle of MHD is an urgent problem that needs to be solved. Analysis of the factors related to cardiovascular and cerebrovascular events in uraemia patients with hypertension is of great significance for guiding clinical preventive measures and reducing the occurrence of MACCE in the treatment cycle of MHD. Currently, there are few reports on MACCE in patients with uraemia and hypertension [6]. Therefore, this study retrospectively analysed the occurrence and influencing factors of MACCE in uraemia patients with hypertension treated with MHD. Data was obtained for the time period that ranged from February 2018 to February 2022 at a tertiary care hospital in Muzaffarabad, Pakistan. This study aimed to provide a more theoretical basis for the clinical treatment of uraemia and to guide clinical intervention measures to reduce the occurrence of MACCE. This can help improve the quality of life of MHD patients and reduce their mortality rates.

Materials And Methods

Clinical data and laboratory indicators of 156 patients admitted to a tertiary care hospital (Abbas Institute of Medical Sciences AIMS) in Muzaffarabad, Pakistan, from February 2018 to February 2022 were collected for retrospective analysis. Patients suffering from uraemia complicated with hypertension are patients with insufficient renal function and diagnosed with hypertension on the basis of World Health Organization (WHO) criteria [7-8].

Inclusion/exclusion criteria

Inclusion criteria were as follows: (1) confirmation of chronic kidney disease (CKD) stage 5 diagnostic criteria [7] and hypertension diagnostic criteria established by the World Health Organization (WHO) [8]; (2) indication for MHD and receiving MHD treatment; and (3) haemodialysis time > 12 months and haemodialysis performed three times a week for four hours each time. The exclusion criteria were as follows (1) severe liver disease or chronic infectious wasting disease, (2) severe bleeding tendency, (3) mental orders, (4) low treatment compliance, and (5) missing clinical information, blood biochemical indexes blood lipid indexes, and blood pressure paran

The timing and scheme of maintenance dialysis therapy: (1) Timing: K/DOQI recommended that when patients with an estimated glomerular filtration rate (eGFR) less than 15 ml/min/1.73 m2 or weekly ureally the companies of the co patients with an estimated giomerina intrauorinae (cons), research and 2.0, at stage 5 of CKD, the nephrologist evaluated the benefits, risks, and disadvantages of initiating real replacement therapy and began preparation for dialysis therapy. However, it is generally recommended that non-diabetic patients with eGFR less than 10 (mL/min/1.73 m2) should start dialysis, diabetic patients with eGFR less than 15 (ml/min/1.73 m2) should start dialysis, and some patients with renal failure with special comorbidities may need to start dialysis earlier [9]. (2) Dialysis regimen: haemodialysis was performed three times a week for 4 h each time. The blood flow rate was 200 - 250 ml/min and the dialysate flow rate of 500 ml/min. Vascular access included an autologous arterioveno fistula or long-term jugular vein catheter.

Data collection

Patient medical records were reviewed, and clinical data and laboratory indicators, including sex, diabetes, hyperlipidaemias, hyperphosphatemia, smoking history, history of alcohol consumption, age, course of ntage change in body mass during the study, dialysis age, plasma albu

blood calcium, serum inorganic phosphorus, serum sodium, calcium-phosphorus product, total cholesterol (TC), triglycerides (TG), high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol (LDL-C), serum creatinine, urea, uric acid, N-Perminal Pro-B-type natriuretic peptide (NT-proBBN), systolic blood pressure (SBP), systolic blood pressure-standard deviation (SBP-SD), systolic blood pressure-coefficient of variation (SBP-CV), diastolic blood pressure-standard deviation (DBP-CV), and adiponectin, were recorded. SBP and DBP are measured at each patient visit and the values are noted on the patient history sheet. The values were obtained from the sheets and a mean of these values was used, standard deviation (SD) and coefficient of variation was then calculated.

Diagnostic criteria and grouping

Hypertension Diagnostic Criteria

Systolic blood pressure \geq 140 mmHg and/or diastolic blood pressure \geq 90 mmHg following repeated examinations should be referred to as hypertension according to the diagnostic criteria of the 2020 International Society of Hypertension Global Hypertension Practice Guidelines. Patients in whom SBP \geq 140 mmHg and DBP \geq 90 mmHg were persistent even after the use of antihypertensives were diagnosed with chronic hypertension [10].

Diagnostic Criteria for MACCE

Cardiovascular events were diagnosed according to the K/DOQI and clinical diagnosis and treatment guidelines, including myocardial infarction, unstable angina pectoris, coronary attrey bypass grafting, heart failure requiring hospitalization, percutaneous coronary intervention, ischemic heart disease, malignant arrhythmia, and congestive heart failure (CHF). Cerebrovascular events included cerebral haemorrhage and stroke, cerebral infarction, and transient cerebral is schemia.

Grouping

During the treatment cycle, the number of patients with MACCE was counted. Patients with MACCE were included in the MACCE group, and those without MACCE were included in the non-MACCE group. The death toll was not included in the study.

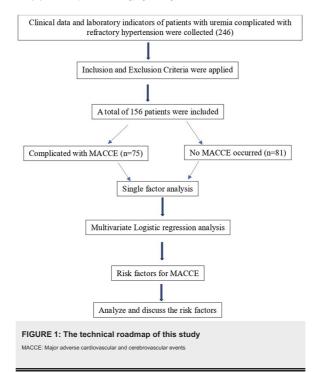
Detection methods of relevant indicators

Blood Biochemical Indices and Serum Adiponectin

Six millilitres of fasting blood was extracted in the morning, and 0.3 mL of 3.84% citrate was added to 3 mL of the blood samples and centrifuged at 5000 revolutions per minute for 10 min. The plasma was then separated and stored at -500 degrees Celsius for examination. Blood lipid indices (total cholesterol, triglycerides, high-density lipoprotein cholesterol, and low-density lipoprotein cholesterol) were determined by enzyme colourimetry. Electrolytes (blood sodium, blood calcium, blood phosphorus), renal function indices (urea and blood creatinine), uric acid, and serum NT- proBNP were detected by conventional methods. Adiponectin levels were determined using radioimmunoassay.

Blood Pressure Variability (BPV)

Ambulatory blood pressure monitoring (ABPM to measure SBP and DBP) was performed at each patient dialysis visit and the values were noted on a patient history sheet as a routine protocol of the hospital. According to the data, the blood pressure during the daytime was measured every 30 min from 90:00 to 22:00 at each dialysis visit. Referring to the research method of Rothwell et al.,[11], the variability of systolic blood pressure (SBP) and diastolic blood pressure (DBP) was determined by the SD and coefficient of variability (CV). The standard deviation of the mean blood pressure values measured three times was denoted as SD, and CV= SD/mean blood pressure. According to the European Society of Cardiology (ESC) and the European Society of Hypertension (ESH: 24h mean blood pressure > 130/80 mmHg, daytime mean blood pressure > 125/70 mmHg, or night mean systolic blood pressure > 125 mmHg, Dipper-type blood pressure was defined as nocturnal mean blood pressure > 10% lower than diurnal mean blood pressure, whereas non-dipper-type blood pressure was defined as decreased blood pressure < 10% [12]. The summary of the methodology is given in Figure 1.



Statistical Methods

IBM SPSS Statistics for Windows, Version 22 (Released 2015; IBM Corp., Armonk, New York, United States) was used for data analysis. Qualitative data were expressed as [n (%)], quantitative data were expressed as (x ± 8), and t-tests were performed. Univariate and multivariate logistic regression models were applied to investigate the factors related to MACCE in patients with uraemia complicated by hypertension

during the MHD treatment cycle, and P< 0.05 was statistically significant.

Results

Following inclusion and exclusion criteria, a total of 156 patients were chosen from 246 patients for this study, of which 81 patients were not complicated with MACCE and 75 patients were complicated with MACCE during the MHD treatment cycle, with an incidence of 48.08% (Figure 1). Comparisons of sex, hyperlipidaemias, hyperphosphatemia, smoking history, drinking history, age, course of disease, BMI, dialysis age, plasma albumin, haemoglobin, blood calcium, blood phosphorus, blood sodium, calcium-phosphorus product, TC, LDL-C, HDL-C, urea, serum creatinine, uric acid, SBP, DBP, and adiponectin between the MACCE group and non-MACCE group (P> 0.05). Compared with the non-MACCE group MACCE group for 30.5 Compared with the non-MACCE group MACCE group for 30.5 Compared with the non-MACCE group MACCE group for 30.5 Compared with the non-MACCE group MACCE group for 30.5 Compared with the non-MacCE group MACCE group for 30.5 Compared with the non-MacCE group for 30

Influence factor	MACCE group(n=75)	non-MACCE group(n=81)	t/c2	Р
Gender (Female/male)	28/47	29/52	0.039	0.843
Concomitant disease				
Diabetes	24(32.00)	4(4.94)	19.365	□0.001
Hyperlipidemia	18(24.00)	23(28.40)	0.388	0.533
Hyperphosphatemia	8(10.67)	7(8.64)	0.184	0.668
Smoking history	25(33.33)	29(35.80)	0.105	0.746
Age(year)	54.22±8.39	53.87±7.16	0.281	0.779
Course of disease(year)	2.58±0.57	2.61±0.42	0.376	0.707
BMI (kg/m ²)	22.53±2.04	22.49±2.13	0.120	0.905
Growth rate of body mass (%)	7.02±1.33	4.86±1.25	10.430	<0.001
Dialysis age(month)	8.43±2.34	8.52±2.16	0.250	0.803
Blood biochemical indexes				
Plasma-albumin (g/L)	38.22±3.39	38.41±3.10	0.366	0.715
Hemoglobin (g/L)	113.25±12.48	112.59±13.32	0.319	0.750
Blood calcium (mmol/L)	2.28±0.22	2.31±0.17	0.957	0.340
Serum inorganic phosphorus (mmol/L)	2.48±0.52	2.42±0.43	0.788	0.432
Serum sodium (mmol/L)	137.28±4.19	136.85±4.25	0.636	0.526
Calcium*phosphorus (mmol ² /L ²)	5.48±0.62	5.39±0.47	1.026	0.306
TG (mmol/L)	1.29±0.42	1.13±0.30	2.753	0.007
TC (mmol/L)	4.42±0.58	4.38±0.29	0.551	0.583
LDL-C(mmol/L)	2.74±0.92	2.66±1.03	0.510	0.611
HDL-C(mmol/L)	1.01±0.11	0.99±0.08	1.306	0.194
Urea(mmol/L)	34.25±6.38	33.74±7.41	0.459	0.647
Serum creatinine(µmol/L)	915.26±25.18	917.02±20.27	0.483	0.630
Uric Acid(µmol/L)	402.55±33.16	405.19±28.87	0.531	0.596
NT-proBNP(ng/L)	6.28±0.47	5.88±0.62	4.514	<0.001
Blood-pressure parameter acquisition				
SBP	143.45±12.28	142.89±11.47	0.295	0.769
DBP	96.21±8.84	95.52±9.13	0.479	0.633
SBP-SD	19.33±4.26	9.25±3.02	17.150	<0.001
SBP-CV	13.17±3.21	5.87±1.85	17.560	<0.001
DBP-SD	10.82±3.29	5.44±1.62	13.100	<0.001
DBP-CV	14.16±4.23	6.24±2.05	15.050	<0.001
Adiponectin	5.37±1.64	5.42±1.38	0.2066	0.837

TABLE 1: Univariate analysis of MACCE in uremic patients with hypertension

SD: Standard deviation; CV: coefficient of variation; MACCE: major adverse cardiovascular and cerebrovascular events; NT-proBNP: N-terminal Pro-B-type natriuretic peptide; SBP-SD: systolic blood pressure-standard deviation; SBP-CV: systolic blood pressure-coefficient of variation; DPP-SD: diastolic blood pressure-standard deviation; DBP-CV: diastolic blood pressure-coefficient of variation

Diabetes distribution and body weight growth rate, TG, NT-proBNP, SBP-SD, SBP-CV, DPP-SD, and DBP-CV in the two groups are shown in Figure $\it 2$.

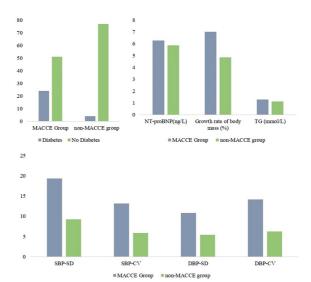


FIGURE 2: Diabetes distribution and the levels of body weight growth rate, TG, NT-proBNP, SBP-SD, SBP-CV, DPP-SD, and DBP-CV in the two groups

MACCE: Major adverse cardiovascular and cerebrovascular events; TG: triglycerides; NT-proBNP: N-terminal Pro-B-type natriurelic peptide; SBP-SD: systolic blood pressure-standard deviation; SBP-CV: systolic blood pressure-coefficient of variation; DPP-SD: diastolic blood pressure-standard deviation; DBP-CV: diastolic blood pressure-coefficient of variation

The items with statistical significance in single-factor analysis (diabetes, body mass growth rate, TG, NT-proBNP, SBP-SD, SBP-CV, DPP-SD, and DBP-CV) were taken as independent variables, and the ROC curve was used to find the optimal truncation value of continuous variables in the independent variables. The ROC curve analysis results are shown in Figure 3.

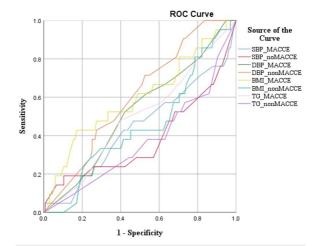


FIGURE 3: Receivers' operating curve

MACCE: Major adverse cardiovascular and cerebrovascular events

The optimal truncation value and assignment of the independent variables are shown in Table $\,2.\,$

Factor	Code	Assignment	
Diabetes	X1	0=Have□1=Not have	
Growth rate of body mass	X2	0=<5.54%□1=≥5.54%	
TG	Х3	0=<1.40 mmol/L□1=≥1.40 mmol/L	
NT-proBNP	X4	0=<5.82 ng/L,1=≥5.82 ng/L	
SBP-SD	X5	0=<13.52□1=≥13.52	
SBP-CV	X6	0=<8.63□1=≥8.63	
DBP-SD	X7	0=<8.14, 1=≥8.14	
DBP-CV	X8	0=<8.82, 1=≥8.82	

TABLE 2: Risk factors and evaluation of MACCE in uraemia patients with hypertension

MACCE: Major adverse cardiovascular and cerebrovascular events; TG: triglycerides; NT-proBNP: N-terminal Pro-B-type natriuretic peptide; SBP-SD: systolic blood pressure-standard deviation; SBP-CV: systolic blood pressure-coefficient of variation; DPP-SD: diastolic blood pressure-standard deviation; DBP-CV: diastolic blood pressure-coefficient of variation

Using multivariate logistic regression analysis, diabetes, body mass growth rate >5.54%, TG >1.40 mmol/L, NT-proBNP >5.82 ng/L, SBP-SD >1.5.2, SBP-CV >8.63, DBP-SD >8.14, and DBP-CV >8.82) were risk factors for MACCE in uraemia patients with hypertension, and the differences were statistically significant (p<0.05) as shown in Table 3.

Independent variable	β	Waldx ²	P	OR(95%CI)
Diabetes	3.074	12.458	<0.001	21.633(3.924-119.263)
Growth rate of body mass	3.202	21.268	<0.001	24.578(6.303-95.835)
TG	2.188	7.428	0.006	8.917(1.849-43.007)
NT-proBNP	2.512	13.148	<0.001	12.329(3.171-47.926)
SBP-SD	2.357	13.149	<0.001	10.560(2.954-37.756)
SBP-CV	2.431	12.233	<0.001	11.370(2.912-44.397)
DBP-SD	2.299	11.138	0.001	9.967(2.583-38.460)
DBP-CV	2.062	10.202	0.001	7.860(2.218-27.852)

TABLE 3: Multivariate logistic regression analysis results

TG: Triglycerides; NT-proBNP: N-terminal Pro-B-type natriuretic peptide; SBP-SD: systolic blood pressure-standard deviation; SBP-CV: systolic blood pressure-standard deviation; DBP-CV: diastolic blood pressure-coefficient of variation; DBP-SD: diastolic blood pressure-standard deviation; DBP-CV: diastolic blood pressure-coefficient of variation

Discussion

Hypertension in haemodialysis patients is related to renal failure and damage and it is important to investigate essential hypertension and renal hypertension caused by kidney disease as well as factors related to haemodialysis [13]. Blood pressure during dialysis treatment was related to the risk of death; high or low systolic blood pressure after dialysis was associated with an increased risk of cardiovascular death, and mortality was significantly increased when the diastolic blood pressure was greater than 10 mmHg [14]. Currently, MACCE is one of the main causes of death in uraemia patients during MHD treatment [15]. In the present study, patients with uraemia complicated by hypertension were included, and the incidence of MACCE was found to be 48.08% indicating higher blood pressure in the group.

The results of this study showed that diabetes body mass growth rate 3 5.54%, TG 3 1.40 mmol/L, NT-proBNP 3 5.82 ng/L, SBP-SD 3 1.5.52, SBP-CV 3 8.65, DBP-SD 3 8.14, and DBP-CV 3 8.82 were risk factors for MACCE in uraemia patients with hypertension. Patients with diabetes are more prone to developing MACCE [16]. Hypertension has been proven to be a cardiovascular risk factor [17]. Other studies have shown that diabetes increases the risk of vascular diseases [13]. Under the double impact of hypertension and diabetes, the risk of MACCE in patients with uraemia has greatly increased. Hypertension is related to body mass index and cardiovascular and cerebrovascular diseases [18]. Hypertension promotes an increase in the body mass of patients, and the incidence of MACCE is related to an increase in body mass index, which could increase the incidence of hypertension, hyperlipidaemias, arteriosclerosis, and diabetes, thus causing the formation of MACCE [19]. This indicates that weight gain increases the risk of MACCE. The results of this study showed that the risk of MACCE was significantly increased when the growth rate of body mass exceeded 5.54%. Lipid and complex carbohydrate accumulation, haemorrhage, thrombosis, fibrous hyperplasia, and calcareous deposition are the basis of atherosclerosis [20]. To is an important component of lipid substances, and increase of TG evels indicate increased lipid accumulation, promoting the formation and development of atherosclerosis and leading to an increase in the incidence of MACCE. NT-proBNP is a serum marker that is synthesized mainly by cardiomyocytes. When the ventricular wall tension is too high, it accelerates the synthesis and secretion of NT-proBNP by cardiomyocytes. The discharge capacity of NT-proBNP in patients with uraemia decreases, so the concentration of NT-proBNP in the plasma increases. Decreased renal function in haemodialysis patients significantly increases the risk of cardiovascular events

BPV is a clinical indicator reflecting the degree of blood pressure fluctuation over a certain period. The clinical blood pressure SD and coefficient of variation (CV) are commonly used to reflect the size of the BPV. Recent studies have found that BPV is significantly positively correlated with the occurrence of MACCE [22-25]. The results of this study showed that SBP-SD, SBP-CV, DBP-SD, and DBP-CV were risk factors for MACCE in patients with uraemia complicated by hypertension during the treatment cycle of MHD, which was consistent with relevant research results [24]. BPV is an important risk factor for target organ damage in patients with hypertension, and SBP-SD and DBP-SD are the main indices reflecting BPV. The instability of SBP-SD and DBP-SD increases the risk of cardiovascular adverse events [25,26]. Insufficient data exist explaining the correlation between blood pressure levels and prognosis in dialysis patients. Blood pressure regulation is imperative both in pre- and post-procedures but also during dialysis [27]. Therefore, we guessed that timely and effective intervention measures for high-risk individuals could reduce the incidence of MACCE so that we could ensure the safety of dialysis and reach a better prognosis.

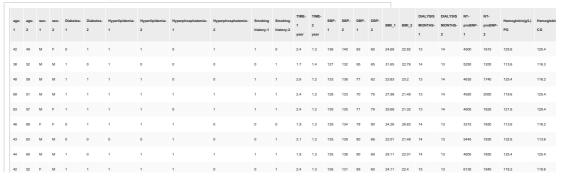
Limitations

This was a single-centre, retrospective study with a limited number of cases. This may have led to a bias in the statistical results and there is no external validation for the study. Therefore, a multicentre study with many samples should be conducted to improve the reliability of the research conclusions.

Conclusions

Patients with uraemia and hypertension complicated with MACCE in the treatment cycle of MHD were related to diabetes, body mass growth rate, TG, TC, NT pro-BNP, SBP-SD, SBP-CV, DBP-SD, and DBP-CV. Therefore, early screening of high-risk patients and positive intervention measures should be performed to reduce the risk of MACCE and ensure dialysis safety. Blood pressure variability can be used as a clinical indicator to monitor fluctuation in BP. The treatment regimens should focus on maintaining systolic and diastolic blood pressure keeping the risk factors in check.

Appendices



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39 69 F M 1 0 0 0 1 0 0 0 27 1.7 135 140 78 65 24 26.99 14 12	2 4605 1615 118.2 127.6
54 58 M M 1 1 0 1 1 0 1 1 1.7 1.8 128 132 78 80 23.05 24.9 14 12	2 3315 1550 132.6 125.4
56 72 F F 1 1 1 1 1 1 1 0 0 1.8 2.4 133 138 79 66 27.73 23.58 11 12	2 5445 1830 125.4 116.3
40 62 F F 1 1 1 1 0 1 0 1 2.5 2.4 130 138 80 69 24.58 26 13 14	4 4605 2025 116.3 119.6
51 87 M M 1 1 1 1 0 0 1 1 2.6 2.1 127 132 80 60 26.17 25.78 14 12	2 6135 1600 113.6 132.6
44 57 F F 0 0 0 0 0 0 0 0 22 12 136 141 75 79 2954 2358 13 12	2 4830 1740 125.6 125.4
38 77 M M 1 0 0 0 1 1 1 1 2.4 1.3 135 139 77 66 26.88 24 13 13	3 3900 1600 127.6 118.2
44 51 M M 0 0 0 0 1 0 1 1 2.4 2.1 130 135 95 69 28.8 25.3 13 13	
76 85 M F 1 1 1 0 1 1 0 1 1.6 2.6 130 135 76 60 30.45 21.88 11 12	
48 80 F F 1 1 1 1 0 1 0 0 2.0 2.6 132 139 95 80 27.1 22.39 13 13	
58 71 F M 1 1 1 1 0 1 0.1 6.1 4.3 127 132 75 66 25.65 20.45 13 13	
70 42 M M 1 1 1 0 1 0 1 0 4.8 5.3 126 130 95 69 28.4 23.98 11 12	2 4256 1625 124.6 132.6
61 77 M M 0 1 0 1 0 1 1 1 1 6.0 5.5 130 135 75 60 23.63 25.6 13 13	3 4242 1600 125.6 124.8
61 64 F F 1 1 1 1 0 0 0 0 5.5 4.4 126 131 76 66 24.69 25.4 11 12	2 3416 2000 131.2 116.3
39 77 M M 1 1 1 1 1 1 1 1 0 3.7 6.8 125 129 77 70 26.48 22.3 13 13	3 5376 1810 137.8 118.2
42 57 M M 1 1 1 1 1 0 1 1 5.9 21.1 127 131 75 80 29.11 25.61 13 13	3 4494 1930 118.2 132.6
48 63 M F 0 0 0 0 1 1 1 1 1 268 14.5 156 160 76 60 26.75 20.82 11 12	2 3360 1250 119.6 125.4
58 77 F M 1 1 1 1 1 0 0 1 140 4.8 135 140 95 65 22.4 25.2 14 13	3 2912 1800 121.9 116.3
61 62 M F 1 1 1 1 0 1 1 5.6 6.7 128 131 94 62 2537 28 11 12	2 3472 1500 125.4 113.6
48 70 F F O 1 O 1 O 1 O 0 8.5 9.5 132 138 75 70 29.69 22.27 14 13	3 4564 1815 124.6 125.6
56 44 M M 0 0 1 0 1 0 1 0 5.1 6.9 126 131 93 80 23.63 26.4 14 13	3 4074 2000 125.6 127.6
48 53 F M 1 1 1 0 0 1 0 1 2.6 2.5 152 112 80 60 2727 24.9 15 13	
70 63 M M 1 0 1 1 1 1 1 1.4 29 170 115 80 62 2454 24.11 15 13	
61 81 M M 0 1 1 1 1 1 1 27 29 160 110 79 80 2539 2305 13 14	
61 47 M F 0 0 1 1 1 0 1 0 1.7 2.8 156 130 78 69 22.43 25 14 13	3 4800 1919 116.3 124.6
39 81 F M 0 0 1 1 0 1 1.8 2.5 145 128 79 66 28.95 26.4 11 12	2 4815 1746 125.4 125.6
42 54 M F O O O 1 1 O 1 O 1.4 2.4 138 111 79 62 2574 24.51 13 14	4 4545 1931 124.6 131.2
48 66 M M 0 0 1 1 1 1 1 1 1.7 2.1 150 120 96 80 25.78 23.72 11 12	2 6030 2000 121.9 137.8
58 52 F M 0 1 1 1 0 1 0 1 1.4 2.4 151 115 75 60 2574 253 12 13	3 3900 1728 124.8 118.2
61 63 M M 1 0 1 1 1 1 1 1.4 2.3 152 130 95 68 2561 23.72 13 14	4 4500 1633 118.2 119.6
46 91 M M O O 1 1 1 1 1 1 1.4 2.5 130 113 75 80 2587 26.4 12 13	3 5250 1736 119.6 121.9
55 46 M F 0 1 0 0 1 0 1 0 1 4 23 150 120 55 67 256 2451 14 13	3 4635 2022 125.6 125.4
45 75 M M 1 0 1 1 1 1 1 1 2.1 2.4 154 119 76 62 2869 25.3 13 14	
41 58 M M 0 0 1 1 1 1 1 1.8 3.0 140 129 77 64 2188 25.78 12 13	
51 60 F M 1 0 0 1 0 1 0 1 1.4 27 138 112 78 70 223 223 15 13	
72 60 M M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 5445 2000 132.6 118.2
66 63 M M 1 0 1 1 1 1 1 1 1.6 2.7 136 121 77 73 27 26.09 14 13	3 4605 1913 121.9 119.6
49 49 M F 0 1 1 0 1 0 1 0 1 1 0 12 12 12	2 6135 1806 118.2 127.6
46 81 M M 0 0 1 1 1 1 1 1 1.4 2.4 128 122 79 70 27.57 24.39 14 12	2 4830 1914 119.6 116.3
47 61 M M O 1 1 O 1 1 1 1 1.7 2.1 150 130 80 60 28.86 26.09 14 12	2 3900 1900 116.3 125.4
45 47 M F 0 0 1 1 1 0 1 0 1.4 2.5 152 112 81 80 2954 25.6 13 14	4 5775 1940 121.6 124.6

59 76 M M 0 1	1	1	1	1	1	1	2.6	2.9 138	124	82	66	30	26.83	14	12	4890	2000	125.4	121.9
47 81 M M O O	1	1	1	1	1	1	1.4	2.2 133	115	78	80	28.4	24.51	14	12	4590	1904	124.6	124.8
66 55 M M 0 1	1	0	1	1	1	1	1.4	2.5 143	110	87	69	27.85	26.09	14	12	4590	1719	137.8	118.2
49 72 M F 1 0	0	1	1	0	1	0	1.8	2.1 154	129	75	63	25.93	26.02	13	14	3690	1643	125.6	119.6
49 76 M M 0 1	1	1	1	1	1	1	1.6	2.5 140	124	76	70	25.74	25.78	12	12	4650	2013	118.2	125.6
35 65 M M 0 0	1	1	1	1	1	1	1.8	2.0 153	115	78	72	27.67	24.39	14	12	5115	1656	119.6	116.3
59 63 M M 0 1	1	1	1	1	1	1	2.1	2.7 130	110	75	74	23.63	26.02	14	12	4620	1824	116.3	125.4
54 53 M M 0 0	1	0	1	1	1	1	2.5	2.4 154	127	79	80	23.05	26.09	15	13	5100	1813	121.9	124.6
79 81 F F 1 1	0	1	0	0	0	0	1.7	2.6 138	125	95	69	32.92	26.17	13	14	3705	1730	125.4	118.2
47 73 M M 0 0	1	0	1	1	1	1	1.4	2.7 132	115	76	66	26.34	23.05	12	13	2730	2000	124.6	119.6
76 62 M M 0 0	1	1	1	1	1	1	1.4	2.0 120	130	80	63	26	24	13	14	5820	1904	131.2	137.8
89 76 F F 0 1	0	1	0	0	0	0	1.4	2.6 125	124	81	80	22.13	25.3	13	14	6735	2127	132.6	116.3
54 66 M M 1 0	1	1	1	1	1	1 :	2.6	2.8 122	115	95	69	27.03	26.4	12	13	6000	4500	118.2	124.6
77 91 M M O O	1	1	1	1	1	1	2.1	2.4 121	110	80	66	28.27	25.2	13	14	6330	5250	119.6	121.9
69 61 M M O 1	1	0	1	1	1			2.4 120	129	78	63	26.95	26.09	13	14	5490	4635	116.3	125.4
71 81 M M 1 0		1		1	1			2.5 128	124	82			26.02	15	13	4905	4920	121.9	124.8
71 55 M M 0 0								2.3 154	115	95			23.44	12	13	6300	4605	124.6	118.2
	0	1	0	0	0				110	94			23.6			5490	3315	125.4	
	0	1	0	0	0			2.3 122						13	14				132
51 84 M M 1 1	1	1	1	1	1			2.0 152	130	93				13	14	5220	5445	125.6	129
59 75 M M O 1	1	1		1	1			2.3 130	112	75			23.2	12	13	5250	4605	121.6	112.8
43 46 M M 1 0	1	0		1	1			2.4 153	124	76			24.39	12	13	4590	6135	118.2	117.5
42 81 M M 0 0	1	1	1	1	1			2.5 134	115	80			24.54	13	14	4815	4830	119.6	125.4
57 68 M M 1 0	1	1	1	1	1	1	1.9	3.0 132	110	79	66	29.22	22.36	15	13	4800	3900	137.8	122.3
59 81 M M 1 0	1	0	1	1	1	1	2.1	2.8 135	116	78	63	29.2	22.53	12	13	5550	5775	116.3	121.9
43 61 M M 0 1	1	1	1	1	1	1	2.4	2.4 136	130	94	80	29.11	25.6	13	13	3030	4890	124.6	116.3
54 67 M M 0 0	1	1	1	1	1	1	2.5	2.3 125	112	75	69	26	26.09	12	13	4800	4590	121.9	125.6
47 81 M M 0 0	1	1	1	1	1	1	1.4	2.8 151	124	95	66	26.48	25.6	12	13	5160	4590	125.4	137.8
41 66 M M 0 0	1	1	1	1	1	1	1.7	2.7 152	115	80	63	28.86	23.72	13	13	3960	1703	124.8	127.6
47 74 F F 1 0	0	1	0	0	0	0	2.4	2.3 125	110	95	80	26.95	22.92	13	13	4560	1857	118.2	118.2
79 48 M M 0 0	1	0	1	1	1	1	2.0	2.5 154	128	94	69	24.81	24.8	13	13	4605	2000	119.6	125.4
51 58 F F 0 1	0	1	1	0	0	0	2.6	2.2 129	124	81	66	20.82	22.13	13	13			125.6	124.6
61 71 M M 1 0	1	1	1	1	1	1	2.4	2.5 130	115	83	63	25	26.83	12	13			124.6	124.8
73 65 F M 0 0	1	1	1	1	0	1	1.4	1.3 134	110	77	70	24.91	26.17	13	13			116.3	121.9
64 60 M F 0 0	1	1	1	1						79	80	27.6	23.94	11					125.6
					1	0	1.6	3.0 139	130	19	00	21.0			12			118.2	12.0.0
64 52 F F 1 1	1	0	1	1	0			3.0 139 2.7 140	130	76			22.4	13	12			132.6	122.3
	1 0		1	1		0		2.7 140			69	27.92			13				122.3
	1 0	0	1	1	0	0	2.5	2.7 140	124	76	69	27.92 28.86	22.4	13				132.6	
42 58 M F 0 0 45 70 M F 0 0	1 0	0	1 0	1	0	0 0	2.5	2.7 140 1.7 115	124	76 80	69 66 63	27.92 28.86	22.4 22.53	13	13 13			132.6 125.4 118.2	122.3
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0	1	0	1 0 1	1 1 1	1 1 0	0 0	2.5 1.6 1.7	2.7 140 1.7 115 2.7 110 2.5 154	124 115 110	76 80 75 76	69 66 63 80	27.92 28.86 28.46 25.37	22.4 22.53 26.02 24.54	13 13 11	13 13 12 14			132.6 125.4 118.2 121.9	122.3 118.2 127.6
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 61 47 F F 0 1	1 0 1	0	1 0 1 1 0 0	1 1 1 0	1	0 0 1	2.5 1.6 1.7 1.9	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116	124 115 110 130	76 80 75	69 66 63 80	27.92 28.86 28.46 25.37 27.92	22.4 22.53 26.02 24.54 20.68	13 13 11 13	13 13 12 14			132.6 125.4 118.2 121.9	122.3 118.2 127.6 125.4 119.6
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 61 47 F F 0 1	1	0	1 0 1 1 0 0	1 1 1	0 1 1 0 0 0 0	0 0 1 0 0 0	2.5 1.6 1.7 1.9 1.8	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153	124 115 110 130 125	76 80 75 76 77	69 66 63 80 69	27.92 28.86 28.46 25.37 27.92	22.4 22.53 26.02 24.54 20.68	13 13 11 13 11	13 13 12 14 12 14			132.6 125.4 118.2 121.9 118.2	122.3 118.2 127.6 125.4 119.6
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 61 47 F F 0 1 64 47 F F 1 0	1	0 1 0 1 1 1 1 1 1	1 0 1 1 1 1 1	1 0 1 1 0 0 1 1 1 1 1 1	0 1 1 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.5 1.6 1.7 1.9 1.8 2.4	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126	124 115 110 130 125 115	76 80 75 76 77 78	69 66 63 80 69 66	27.92 28.86 28.46 25.37 27.92 29.54 24.9	22.4 22.53 26.02 24.54 20.68 23.17	13 13 11 13 11 13 11	13 13 12 14 12 14			132.6 125.4 118.2 121.9 118.2 119.6	122.3 118.2 127.6 125.4 119.6 132.6
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 61 47 F F 0 1 64 47 F F 1 0 49 55 F F 1 1	1	0	1 0 1 1 1 1 1	1 1 1 0	0 1 1 0 0 0 0 1	0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.5 1.6 1.7 1.9 1.8 2.4 2.4	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126 2.9 152	124 115 110 130 125 115 129	76 80 75 76 77 78 75	69 66 63 80 69 66 63	27.92 28.86 28.46 25.37 27.92 29.54 24.9	22.4 22.53 26.02 24.54 20.68 23.17 25.6 25.19	13 13 11 13 11 13 11 11 11 11	13 13 12 14 12 14 12 14			132.6 125.4 118.2 121.9 118.2 119.6 121.6	122.3 118.2 127.6 125.4 119.6 132.6 124.6
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 61 47 F F 0 1 64 47 F F 1 0 40 55 F F 1 1 48 55 F F 0 1	1	0 1 0 1 1 1 1 1 1	1 0 1 1 1 1 1	1 0 1 1 0 0 1 1 1 1 1 1	0 1 1 0 0 0 1 1 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.5 1.6 1.7 1.9 1.8 2.4 2.4 2.1	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126 2.9 152 2.2 140	124 115 110 130 125 115 129 112	76 80 75 76 77 78 75 76	69 66 63 80 69 66 63 70	27.92 28.86 28.46 25.37 27.92 29.54 24.9 24.63	22.4 22.53 26.02 24.54 20.68 23.17 25.6 25.19	13 13 11 13 11 13 11 13 11 13	13 13 12 14 12 14 12 14 12 14 12 14			132.6 125.4 118.2 121.9 118.2 119.6 121.6 116.3	122.3 118.2 127.6 125.4 119.6 132.6 134.6 131.2
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 61 47 F F 0 1 64 47 F F 1 0 40 55 F F 1 1 59 75 M F 1 0 48 55 F F 0 1 47 0 F M 0 1	1 0 1 1 1 1 1 1 1	0 1 0 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 1 1 1 1	0 1 1 0 0 0 0 1	0 0 0 1 1 0 0 0 0 0 1	2.5 1.6 1.7 1.9 1.8 2.4 2.4 2.1 1.6	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126 2.9 152 2.2 140 2.5 139	124 115 110 130 125 115 129 112 124	76 80 75 76 77 78 75 76	69 66 63 80 69 66 63 70 80	27.92 28.86 28.46 25.37 27.92 29.54 24.9 24.63 25.65	22.4 22.53 26.02 24.54 20.68 23.17 25.6 25.19 24.9	13 13 11 13 11 13 11 13 11 11 13 11	13 13 12 14 12 14 12 14 12 14 12 14 14 14			1326 1254 1182 1219 1182 1196 1216 1163 1246 137.8	122.3 118.2 127.6 125.4 119.6 132.6 124.6 131.2 125.6 131.2
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 61 47 F F 0 1 64 47 F F 1 0 49 55 F F 1 1 50 75 M F 1 0 48 55 F F 0 1 47 63 F M 0 1	1	0 1 0 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0	1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 0 0 0 1 1 0 0 1 1	0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.5 1.6 1.7 1.9 1.8 2.4 2.4 2.1 1.6 2.4	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126 2.9 152 2.2 140 2.5 139 2.1 135	124 115 110 130 125 115 129 112 124 115	76 80 75 76 77 78 75 76	69 66 63 70 69 66 66	27.92 28.86 28.46 25.37 27.92 29.54 24.9 24.63 25.65 26.17 26.25	22.4 22.53 26.02 24.54 20.68 23.17 25.6 25.19 24.9 22.4	13 13 11 13 11 13 11 13 11 13 13 13 13	13 13 12 14 12 14 12 14 12 14 14 14 14 14			1326 125.4 118.2 121.9 118.2 119.6 121.6 121.6 124.6 137.8 125.4	1223 1182 127.6 125.4 119.6 132.6 124.6 131.2 125.6 137.8
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 65 47 F F 0 1 49 55 F F 1 0 40 55 F F 0 1 47 03 F M 0 1 47 55 48 M F 1 1 75 54 F F 0 1	1 0 1 1 1 1 1 1 1	0 1 0 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0	1 0 1 1 1 1 1 1 1 1 1 1 1	0 1 1 0 0 0 1 0 0 1 1 0 0	0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.5 1.6 1.7 1.9 1.8 2.4 2.4 2.1 1.6	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126 2.9 152 2.2 140 2.5 139	124 115 110 130 125 115 129 112 124	76 80 75 76 77 78 75 76	69 66 63 70 69 66 66	27.92 28.86 28.46 25.37 27.92 29.54 24.9 24.63 25.65 26.17 26.25	22.4 22.53 26.02 24.54 20.68 23.17 25.6 25.19 24.9	13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	13 13 12 14 12 14 12 14 12 14 14 14 14 14 14			132.6 125.4 118.2 121.9 118.2 119.6 121.6 146.3 124.6 137.8 125.4	1223 118.2 127.6 125.4 119.6 132.6 124.6 131.2 125.6 137.8 119.6
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 61 47 F F 0 1 64 47 F F 1 0 49 55 F F 1 1 50 75 M F 1 0 48 55 F F 0 1 47 63 F M 0 1	1 0 1 1 1 1 1 1 1	0 1 0 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 1 0 1 1	1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 0 0 0 1 1 0 0 1 1		2.5 1.6 1.7 1.9 1.8 2.4 2.4 2.1 1.6 2.4 1.8	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126 2.9 152 2.2 140 2.5 139 2.1 135	124 115 110 130 125 115 129 112 124 115	76 80 75 76 77 78 75 76	69 66 63 70 69 66 63 63	27.92 28.86 28.46 25.37 27.92 29.54 24.9 24.63 25.65 26.17 26.25 28.27	22.4 22.53 26.02 24.54 20.68 23.17 25.6 25.19 24.9 22.4	13 13 11 13 11 13 11 13 11 13 13 13 13	13 13 12 14 12 14 12 14 12 14 14 14 14 14			1326 125.4 118.2 121.9 118.2 119.6 121.6 121.6 124.6 137.8 125.4	1223 1182 127.6 125.4 119.6 132.6 124.6 131.2 125.6 137.8
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 65 47 F F 0 1 49 55 F F 1 0 40 55 F F 0 1 47 03 F M 0 1 47 55 48 M F 1 1 75 54 F F 0 1	1 0 1 1 1 1 1 1 1		1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 0 0 0 1 0 0 1 1 0 0		2.5 1.6 1.7 1.9 1.8 2.4 2.4 2.1 1.6 2.4 1.8	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126 2.9 152 2.2 140 2.5 139 2.1 135 2.5 132	124 115 110 130 125 115 129 112 124 115 110 125	76 80 75 76 77 78 75 76	69 66 63 70 69 66 63 80 66 63 80 66 65 83 80 60 66	27.92 28.86 28.46 25.37 27.92 29.54 24.9 24.63 25.65 26.17 26.25 28.27 27.5	22.4 22.53 26.02 24.54 20.68 23.17 25.6 25.19 24.9 22.4 23.68 23.68	13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	13 13 12 14 12 14 12 14 12 14 14 14 14 14 14			132.6 125.4 118.2 121.9 118.2 119.6 121.6 146.3 124.6 137.8 125.4	1223 118.2 127.6 125.4 119.6 132.6 124.6 131.2 125.6 137.8 119.6
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 65 47 F F 0 1 64 55 F F 1 1 65 48 M F 1 0 66 48 M F 1 1 75 54 F F 0 1 55 47 F F 0 1 55 47 F F 1 0	1 0 1 1 1 1 1 1 1		1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2.5 1.6 1.7 1.9 1.8 2.4 2.4 2.1 1.6 2.4 1.7 1.4 2.5	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126 2.9 152 2.2 140 2.5 139 2.1 135 2.5 132 2.1 135 2.5 132 2.1 135	124 115 110 130 125 115 129 112 124 115 110 125 1115	76 80 75 76 77 78 75 76	69 66 63 80 69 66 63 80 69 69 66 63 80 69	27.92 28.86 28.46 25.37 27.92 29.54 24.9 24.63 25.65 26.17 26.25 28.27 27.5	22.4 22.53 26.02 24.54 20.68 23.17 25.6 25.19 24.9 22.4 23.68 25.3 22.4 22.53	13 13 13 11 11 11 13 11 11 11 13 13 13 1	13 13 12 14 14 12 12 14 14 14 14 12 12 12			132.6 125.4 116.2 121.9 116.2 119.6 121.6 116.3 124.6 137.8 125.4 116.2	122.3 118.2 127.6 125.4 119.6 132.6 124.6 131.2 125.6 137.8 119.6 125.4
42 58 M F 0 0 45 70 M F 0 0 51 64 F M 1 0 65 47 F F 0 1 49 55 F F 1 1 47 63 F M 0 1 56 43 F M 0 1 56 44 F F 0 0 56 44 F F 0 0 56 47 F F 0 1 56 47 F F 0 0 57 54 F F 0 0 58 64 7 F F 0 0 68 70 M M 0 0 70 00 00 00 00 00 00 00 00 00 00 00 00 0	1 0 1 1 1 1 1 1 1		1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				2.5 1.6 1.7 1.9 1.8 2.4 2.4 2.1 1.6 2.4 1.7 1.8 1.7	2.7 140 1.7 115 2.7 110 2.5 154 2.4 116 2.1 153 2.5 126 2.9 152 2.2 140 2.5 139 2.1 135 2.5 132 2.0 130 2.7 125	124 115 110 130 125 115 129 112 124 115 110 128	76 80 75 76 77 78 75 76 79 75 76 79 80	66 63 70 66 63 50 66 65 66 66 66 66 66 66 66 66 66 66 66	27.92 28.86 28.46 25.37 27.92 29.54 24.9 24.63 25.65 26.17 26.25 27.24 27.24 26.96	22.4 22.53 26.02 24.54 20.68 23.17 25.6 25.19 24.9 22.4 23.68 25.3 22.4 22.53	13 13 13 11 11 13 13 11 13 13 13 13 13 1	13 13 12 14 12 14 12 12 14 14 14 12 12 12 14 14 14 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18			132.6 125.4 116.2 121.9 118.2 119.6 121.6 121.6 122.6 137.8 125.4 118.2 125.6 121.6	122.3 118.2 127.6 125.4 119.6 132.6 131.2 125.6 137.8 119.6 125.4 122.3
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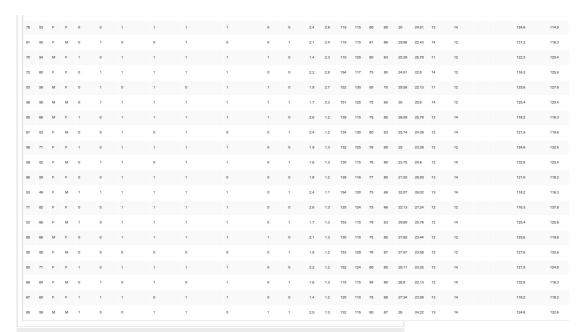


TABLE 4: Data Set

Additional Information

Author Contributions

All authors have reviewed the final version to be published and agreed to be accountable for all aspects of the

Concept and design: Sarosh Khan Jadoon, Awais Ahmed Nizami, Waqar Mustafa, Mamoon Qadir, Maria Shahzad, Hamid Igbal, Anwar Ali, Amna Akbar, Sabahat Tasneem, Mohammad Saleem Khai

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Disclosures

Human subjects: Consent was obtained or waived by all participants in this study. Abbas Institute of Medical Sciences (AIMS) issued approval reference number: 1451. **Animal subjects:** All authors have confirmed that this study did not involve animal subjects or tissue. **Conflicts of interest:** In compliance with the ICMIE uniform disclosure form, all authors declare the following: Payment/services info: All with the completion in disclosule rolling an author of the delared that one declared that no financial support was received from any organization for the submitted work. Financial relationships: All authors have declared that they have no financial relationships at present or within the previous three years with any organizations that might have an interest in the submitted work. Other relationships: All authors have declared that there are no other relationships or activities that could appear to have influenced the submitted work.

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