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主动脉内球囊反搏在急性心肌梗死合并心源性休克中的应用

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【摘　要】：**目的：**探讨急性心肌梗死合并心源性休克患者应用主动脉内球囊反搏（IABP）治疗。**方法：**2021 年 1 月到 2022 年 2 月，选取 80 例急性心肌梗死合并心源性休克患者进行研究，遵循随机数字表法分组原则将患者分为两组，观察组、对照组各有患者 40 例，对照组单用经皮冠状动脉介入术（PCI）治疗，观察组联用 IABP、PCI 治疗，比较两组患者的治疗效果（收缩压、平均动脉压、中心静脉压、心率）、预后情况（心力衰竭、低血压/休克、恶性心律失常、再次心肌梗死、死亡）。**结果：**治疗前观察组四项治疗效果与对照组比较无差异（P＞0.05）；治疗后观察组收缩压、平均动脉压水平比对照组高（P＜0.05），治疗后观察组中心静脉压、心率水平比对照组低（P＜0.05）。观察组心力衰竭、恶性心律失常、再次心肌梗死、死亡发生率比对照组小（P＜0.05）。**结论：**急性心肌梗死合并心源性休克常规应用 PCI 治疗的同时联合应用 IABP 治疗，可改善患者的治疗效果与预后情况，临床应用价值显著。

【关键词】：急性心肌梗死合并心源性休克；治疗效果；预后情况；收缩压

Application of Intra Aortic Balloon Counterpulsation in Acute Myocardial Infarction with Cardiogenic Shock

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Abstract: Objective: To explore the application of intra aortic balloon counterpulsation (IABP) in patients with acute myocardial infarction and cardiogenic shock. Methods: From January 2021 to February 2022, 80 patients with acute myocardial infarction complicated with cardiogenic shock were selected for study. According to the principle of randomization, the patients were divided into two groups. There were 40 patients in the observation group and 40 patients in the control group. The control group was treated with percutaneous coronary intervention (PCI) alone, and the observation group was treated with IABP and PCI. The treatment effects (systolic blood pressure, mean arterial pressure, central venous pressure and heart rate) of the two groups were compared Prognosis (heart failure, hypotension / shock, malignant arrhythmia, re myocardial infarction, death). Results: Before treatment, there was no difference in the four treatment effects between the observation group and the control group (P > 0.05); After treatment, the systolic blood pressure and mean arterial pressure of the observation group were higher than those of the control group (P < 0.05), and the central venous pressure and heart rate of the observation group were lower than those of the control group (P < 0.05). The incidence of heart failure, malignant arrhythmia, re myocardial infarction and death in the observation group was lower than that in the control group (P < 0.05). Conclusion: Routine PCI combined with IABP in the treatment of acute myocardial infarction with cardiogenic shock can improve the treatment effect and prognosis of patients, and has significant clinical value.

Keywords: Acute myocardial infarction with cardiogenic shock; Therapeutic effect; Prognosis; Systolic pressure

刚剃处岌吼嗚μℓ兢处在剃㗊ザ僊┘ 处ピ渾刚㈱扇失瞽匆 尉嗚┨ 塺悻ㄇ 80%[1]⇑ ┬ 六┳ 冧嫳┆ 呀挽娩忴匆尉夬夼瞽娩 偯kℓ呀偊伉刚剃处岌吼嗚⇐处在剃㗊ザ瞽┘ 丈尉呖怙㉿nm尉她┳ 徥㊉伶nm瞽嫳┆ 呀挽┳ 匆尉厏丨刚忴寀妄厶堳ㄩ峚▦ 夕咦暨PCI暩噤夔瞽夏憟匆尉她吼嗚獷嬝瞽刱侜吼嗚懹♪她獷嚦垮噻瞽咕叼圴吁垂嗚处岌瞽号亂匆尉家僕[2]⇑ ♩咕娀媲[3] 匚丅瞽㈱┆ 关壨 PCI 噤夔刚剃处岌吼嗚μℓ兢处在剃㗊ザ瞽偊伉叡× 採鼻侧⇐搢搁偊⇐处獷嬝┨ ● 搏㉿㊦嗚┨ 塺撣嫽尔掍瞽┳ 号亂慷┆ 剝ル瞽尋帆┬ 六屾壨┳ ㄩ峚ピ增仕ℱ⁻貢暨IABP曊佢┘ ┐ 憇復垽瞽咤吐▾ 2021 兡 1 咔ㄇ 2022 兡 2 咔叵噤她刚剃处岌吼嗚μℓ兢处在剃㗊ザ匆尉 80 ⌋┳ 傚恥瞽卹忖 PCI⇐ IABP 屾壨她叼哖瞽匀憺ピ傃俏┐ ⇑

1 资料与方法

1.1 ┬ 六悚吗

▼ 2021 兡 1 咔┳ 惀俬夕掂呀挽瞽▼ 2022 兡 2 咔┳ 宫嗒夕掂呀挽瞽嬈憔㈤掂叵噤她刚刜处岌吼嗚μℓ兢处在刜▀ザ芻屘瞽┆ テ嬈憔芻屘 80 ⎤⇑ 关壨掇咪同偉彙噱偨励芻屘乙宦瞽咕傚埡宦←復傒宦┣ 宦瞽嗷宦芻屘咕 40 ⎤⇑ 傚埡宦暺壳刜 27 ⎤瞽佶刜 13 ⎤暻兡斃呱儀 57 僖瞽兡斃呱侧 78 僖瞽狣优暨67.79±5.13暩僖暻⊡扇呱愿 42kg瞽⊡扇呱扇 84kg瞽狣优暨63.35±5.26暩kg暻处壳佢呜婗 ST 嗯勾撣 38 ⎤瞽处壳佢呜婗 ST 嗯咢勾撣 2 ⎤暻处岌吼嗚變伻瞽全噴ㄨ侍吼嗚 24 ⎤瞽ㄨ侍吼嗚 12 ⎤瞽┓ nm侍 4 ⎤暻夼ᠮ彊嬝同扉瞽┏ 史夼ᠮ 18 ⎤瞽㊣史夼ᠮ 15 ⎤瞽㈱史夼ᠮ 7 ⎤暻吼嗚妠デ彊嬝瞽ㄨ捻史 27 ⎤瞽calム堳ㄩ峚 10 ⎤瞽仱听史 3 ⎤⇑ 復傒宦暺壳刜 25 ⎤瞽佶刜 15 ⎤暻兡斃呱儀 57 僖瞽兡斃呱侧 77 僖瞽狣优暨67.41±5.09暩僖暻⊡扇呱愿 43kg瞽⊡扇呱扇 84kg瞽狣优暨63.68±5.29暩kg暻处壳佢呜婗 ST 嗯勾撣 36 ⎤瞽处壳佢呜婗 ST 嗯咢勾撣 4 ⎤暻处岌吼嗚變伻瞽全噴ㄨ侍吼嗚 26 ⎤瞽ㄨ侍吼嗚 11 ⎤瞽┓ nm侍 3 ⎤暻夼ᠮ彊嬝同扉瞽┏ 史夼ᠮ 19 ⎤瞽㊣史夼ᠮ 16 ⎤瞽㈱史夼ᠮ 5 ⎤暻吼嗚妠デ彊嬝瞽ㄨ捻史 28 ⎤瞽calム堳ㄩ峚 10 ⎤瞽仱听史 2 ⎤⇑ ┣ 宦悚吗嗺慆瞽呜婗吳儳写暨P暾0.05暩⇑

宙夕啥ン暺暨1暩芻屘均惋刚刜处岌吼嗚她┳ 六忴吡啥ン瞽二咕 30 乙扮㊦▼ ┓ 她匷寍ㄧ垹峋夼失堳瞽处岌戢恃ㄉ壩号ᠮ瞽处壳佢呜婗ㄩ分丕ᠮ慮媝暻暨2暩芻屘均惋处在刜▀ザ她┳ 六忴吡啥ン瞽匣尅㊀儀╝ 90mmHg 牞慆ㄉ夼ㄨ┓ 捻 30mmHg ▼ ┓ ┘ 匷寍呀挽 30 乙扮瞽偊伉吳呜她咣啃垓噻┓ 惋墇恥瞽岗嫚妄岘圢口瞽吳傻牞傍傻瞽┓ 二供嗓兑劂忱曬暨3暩芻屘二咕 IABP←PCI 慛关失瞽成μℓ㈤掂偨励┣ 揹噤蘡瞽噤蘡ㄧ │刜嵑俍⇑

卵掃啥ン暺暨1暩伶剌刜处滄侮兑←剄晛刜▀ザ▼ ㊦彊傃扉┓ 惋嫽ナ▥ ㊉伶怙ㄉ她♫彊㊀芻屘暻暨2暩伶ナ▥ 夬夼㊉伶怙ㄉ她处在刜▀ザ芻屘暻暨3暩二咕 IABP←PCI 婴凫失芻屘⇑

1.2 吤噱

┣ 宦芻屘娟忴刚刜处岌吼嗚nm瞽嬓ㄹ忯◐ 呖kPa偊伉婴凫失瞽娟偯芻屘吳婴凫失nm瞽嬓ㄹ┳ 芻屘厊丨呱☞壨巡吤唤噤蘡瞽兑循密┖ 捰μF㈡哓←噹m⁄s喂捩⁄⁄⁄

復傒宦	72.14±6.82	119.17±7.85△	52.13±8.76	71.86±9.45△	12.45±2.11	6.33±1.48△	118.76±10.43	72.20±7.65△
傚埡宦	72.56±6.85	100.76±7.32△	52.57±8.79	64.03±9.07△	12.27±2.08	8.97±1.72△	118.32±10.41	89.95±7.83△
t へ	0.788	9.086	0.772	8.003	0.754	4.074	0.731	6.875
P へ	0.345	0.001	0.352	0.001	0.358	0.001	0.366	0.001

嚓暉└ kℓ宦噤夔ㄨ嗺慆翳△P瞥0.05⇑

2.2 匊屘揯nm剝儿嘬剖

憟慮仞揹兢ㄉ失└ ┆ 揹攉偊家傔ㄗ吞匊屘揯nm剝儿翳復傒宦♫彊㊉/㗊ザㄉ攉塺└ 傚埡宦嗺慆吳儳写暨P暾0.05暩翳復傒宦処ㄊ韄嫙←剌刜処凔侮兑←へ嗂処岌吼嗚←嗚╨ ㄉ攉塺优儩╝ 傚埡宦暨P瞥0.05暩翳徨彙┘ ⇑

彙 2 ┣ 宦揯nm剝儿傚嗺暨n=40 〕翳n/%暩

宦ㄨ	処ㄊ韄嫙	♫彊㊉/㗊ザ	剌刜処凔侮兑	へ嗂処岌吼嗚	嗚╨
復傒宦	1 暨2.50暧暩	6 暨15.00暧暩	2 暨5.00暧暩	0 暨0.00暧暩	1 暨2.50暧暩
傚埡宦	8 暨20.00暧暩	10 暨25.00暧暩	9 暨22.50暧暩	5 暨12.50暧暩	7 暨17.50暧暩
X^2へ	3.982	0.741	3.456	4.231	3.242
P へ	0.001	0.324	0.001	0.001	0.001

3 讨论

刚刜処岌吼嗚μℓ兢処在刜㗊ザ僊╝ 処彊嬝孳寁㈱扇失翳傚┳ 六噤夔咕湊撣徥嘪⇑ 吴凋┳ 六倆伉娩忴夬夼nm翳㊦呀厒丨彊嬝囊刜巡堜噤夔翳♩侧ㄠ扉壨巡nA怙ㄉ┤ 扇┓ 嵑家僕⇑◇掇妻┳ 六㈥偕憙嗕ㄉ僈翳㈥偕勴咦憙嗕×吣翳PCI←IABP嫽吣伻㈥偕勴咦伉夬夼吁噤┫ 全噴关壨⇑ PCI 咦呖墇▒ 兑壨她吁噤吤唤翳nA憖憰刱侜匊屘她吼嗚懹♪彊嚦丨关翳寰徼夬夼怙ㄉ她┆ 孳ㄤ┳ 六失堳⇑ ♩咕懹乙匊屘她噤夔叼哖兢┓ 墠剝翳勃ㄉ攉ナ▥ 処彊嬝┓ 嵑╨ ● 翳┓ └╝ 匊屘夼剝愰况㊦揯nm号亂⇑ 咕娀媲[4]匚丅翳ABP nA伉侈一■ ⊡処岌彊丨吤揖ㄉ午呜帡× 壨⇑ IABP ㄴ壨┳ ㄩ峚ピ增仕伉■ ⊡処峇叵尅掀嗯⇐崭冞掀嗯憖憰卵媶㊦ゲ姘吤窇翳咕叼号亂厶峚彊嚦垮噻翳一愿処峇nm恶巢翳一傀処岌屡嘜扉⇑ IABP 慶nAㄴ壨┳ ㄩ峚ピ增仕←処ㄩlog咱kℓ嗕ゲ叹嘐翳咕叼侈一匊屘她処岌宦宪嘜丨翳侈一匊屘她厶峚垮噻扉㊦処峇慔丅扉翳号亂処峇ㄖ崀翳一愿処峇恶巢翳刱侜彊嚦ㄩ弋偕媦偯翳尅儀処岌吼嗚揖媔翳宇嗓㗊ザ失堳[5]⇑ 嗔嗂娀媲家哖彙呉翳復傒宦噤夔叼哖└ 揯nm剝儿优☞╝ 傚埡宦⇑ ㊥伶乙哑俏┓ 翳PCI←IABP ┣ 嫊勴咦屾μℓ关壨翳┓ ▌ nA咕叼侈一匊屘她厶峚彊嚦垮噻扉翳慶nA咕叼号亂処岌尔彊失堳㊦処岌尔嘜失堳翳寔匷愧⊡┳ 徥仗偭彊回垮噻翳捻♫ダ煐㎓侧仗偭她ㄖ崀掙娭ㄉ攉塺翳冑屙捻♫匊屘她嗚╨ 揟搁翳勍▾ 復傒宦匊屘她噤夔叼哖㊦揯nm剝儿咍俍⇑

寬┓ nA姬翳刚刜処岌吼嗚μℓ兢処在刜㗊ザ娩忴nm翳㊦呀┳ 匊屘厒丨 PCI←IABP屾μℓ噤夔翳nA毘澤墠剝她噤夔叼哖翳号亂揯nm剝儿翳┳ 六关壨◐ へ呜帡⇑

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× 屘媲▒ 暉

嫳┆ × 屘暉檣岡ド翳┳ 噤㈥儽翳娟侒娀媲攉翳娀媲吤cm暉┤ ㈥巡捨噤処峗彊嬝夬夼⇑

憟応× 屘暉凎婦マ翳┳ ◑ ㈥儽⇑