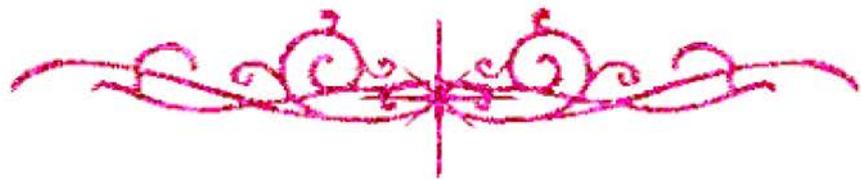


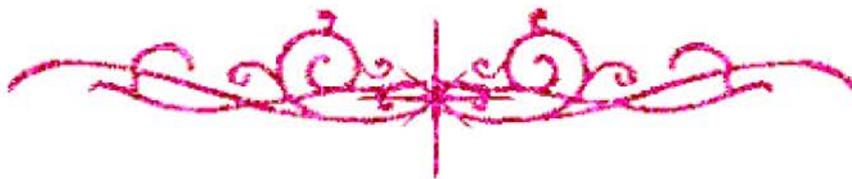
# بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



**HOSSAM MAGHRABY**



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



**HOSSAM MAGHRABY**

# جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم  
قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
علي هذه الأقراص المدمجة قد أعدت دون أية تغييرات



يجب أن

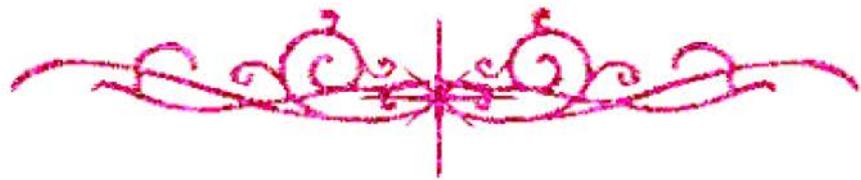
تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



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# بعض الوثائق الأصلية تالفة

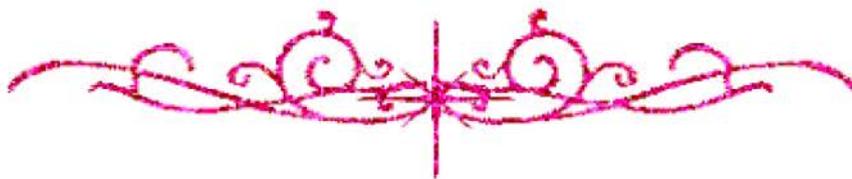


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بالرسالة صفحات

لم ترد بالأصل



HOSSAM MAGHRABY

# Cardiovascular failure and methods of support after cardiac surgery

ESSAY

B122-9

submitted in partial fulfillment for the  
M.Sc. Degree in Anaesthesiology

by

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محضر

اجتماع لجنة الحكم على الرسالة الرندية من  
الطبيب / عاجه لبيب بولس  
توظف للحصول على درجة الماجستير / الدكتورة  
في التنفس

تحت عنوان : باللغة الانجليزية : Cardiovascular failure and methods of support after cardiac surgery

: باللغة العربية : فشل القلب بعد عمليات القلب المفتوح  
و طرق العلاج

بناء على موافقة الجامعة بتاريخ ٢٩ / ٥ / ٢٠١٠ تم تشكيل لجنة الفحص والنافذة للرسالة  
المذكورة أعلاه على النحو التالي :-

- ١) د/ احمد شحاته - شارح الرسالة عن المشرفين
- ٢) د/ محمد محمد كرم - مستشار داخلي
- ٣) د/ محمد محمد - مستشار خارجي

بعد فحص الرسالة بواسطة كل عضو منفردا وكتابة تقارير منفردة لكل منهم انعقدت اللجنة مجتمعة في  
يوم الجمعة بتاريخ ٣ / ٧ / ٢٠١٠ انقسم المرشح رند  
بكلية الطب - جامعة القاهرة وذلك لنافذة الطالب في جلسة علنية في موضوع الرسالة والنتائج التي تحصل  
لها وكذا لك الاسس العلية التي قام عليها البحث .

نزار اللجنة :

عبد الرحمن

توزيعات أعضاء اللجنة :-

المتحن الخارجي

المتحن الداخلي

الشرف المتحن

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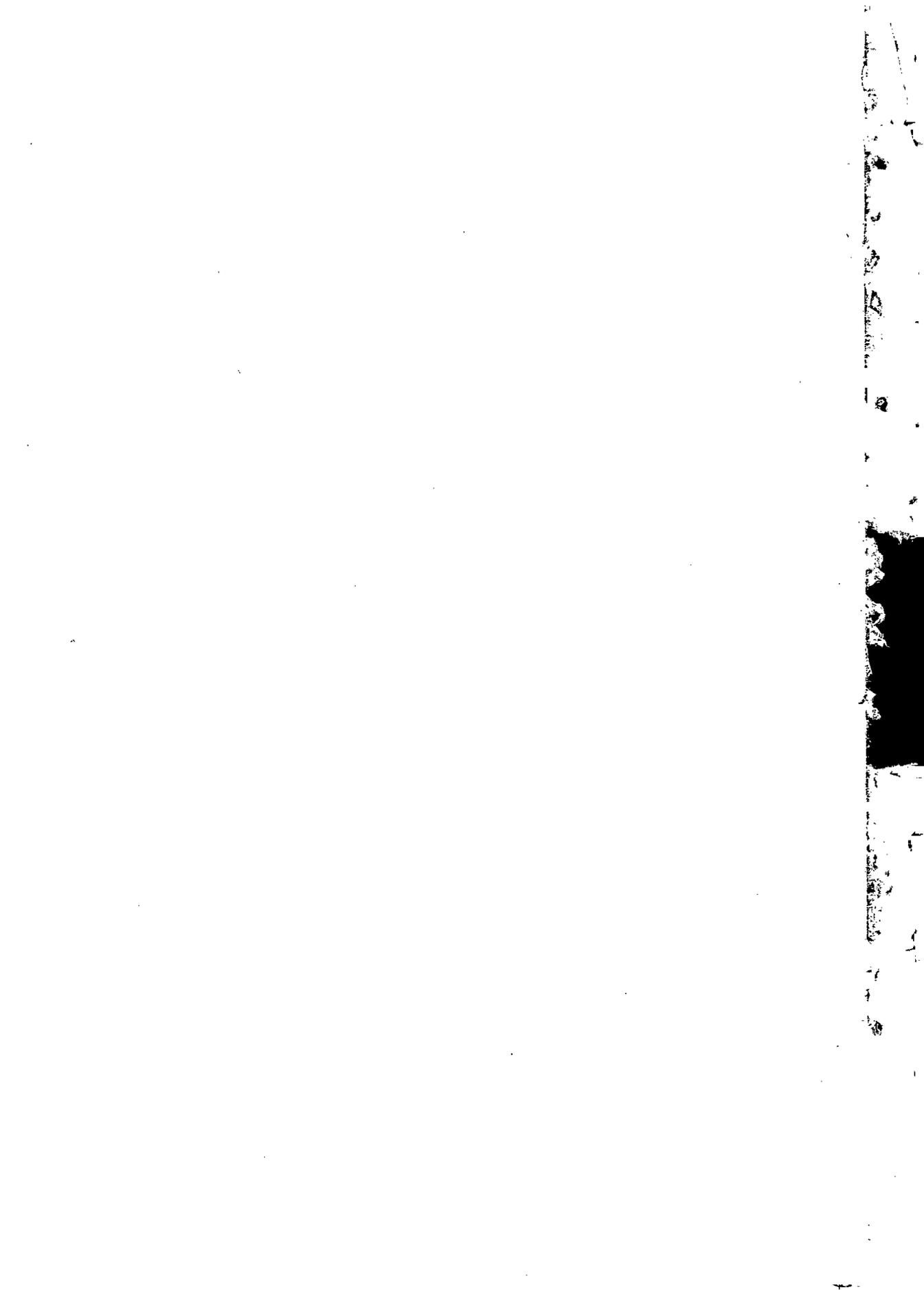
## ABSTRACT

Patients that develop cardiovascular failure following cardiac surgery fall into a variety of different categories, including patients who develop postoperative arrhythmias and those requiring postoperative inotropic support. In addition, the need for postoperative inotropic support may be raised by low cardiac output syndrome, chronic heart failure or acute myocardial infraction.

Support of the failing heart can be implemented, either by physiological support or, in the worst scenario (when the heart fails to compensate itself). Pharmacological and mechanical support can be introduced.

## Keywords

- Heart failure.
- Cardiac surgery.
- Low cardiac output syndrome.
- Postoperative myocardial dysfunction.
- Inotropes.
- Vasodilators.
- Diuretics.
- Beta-blockers.
- Intra-aortic-balloon pump.
- Circulatory assist devices.



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