دائـــــرة الـــصــحـــة DEPARTMENT OF HEALTH



Health Technology Review		
Technology Ref.:	HTA21053	
Technology Name:	HA330/HA380	
Approvals by International Bodies:	CE certificate	
Company name:	Horizon International Medical Supplies	
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Short Description of the Technology:	Disposable Hemoperfusion cartridge for removal of inflammatory mediators (Cytokines) to be used for the treatment of severe and critical cases in the early and middle stages of cytokine storm. The cartridges contain highly biocompatible sorbents and neutro-macroporous resin made of styrene-divinylbenzene copolymer. Their adsorbing beads' pore size ranged from 500D to 60kD, giving them the ability to absorb various medium-sized factors, including most inflammatory cytokines (IL-1, IL-6, IL-8, and TNF-a). The Hemoperfusion cartridge can be used on CRRT machines in combination with CVVH, CVVHFD, or it can be used alone as Hemoperfusion therapy on Hemoperfusion machines.
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Approve

Summary of Review:

Ha330/HA380 hemoperfusion therapy can be used alone or in combination with other extracorporeal blood circulations, which provides a new solution to reduce inflammatory mediators and cytokines for critical-ill patients in ICU or those undergoing cardiac surgery. It's also a method of blood filtering to remove toxins and inflammatory factors. Cytokine storms and high levels of inflammatory factors play a role in the pathogenesis of coronavirus disease 2019 (COVID-19). H330 & HA380 are similar product with different capacity (surface)

Advantages	Disadvantages	
	Lack of local cost effectiveness study; Limited	
CE Marked Product	evidence on the economic impact of using	
	cytokine absorbers was identified.	
Clinical Effectiveness: Available studies proven	Large prospective trials in carefully selected	
the effectiveness in Reducing the cytokine	patient populations and well-defined conditions	
storm & treating patients in ICU with Sepsis &	are needed to definitely evaluate the efficacy of	
Covid19.	sorbent devices.	
HA330/380 (Jafron) is approved by NICE as a		
cytokine adsorption device for treating	Risks of the technology are similar to the risks of	
respiratory failure in people with COVID-19;	the current practice; Complications of	
Treating Hemoperfusion could improve	hemoperfusion.	
respiratory distress and reduced the CRP in		

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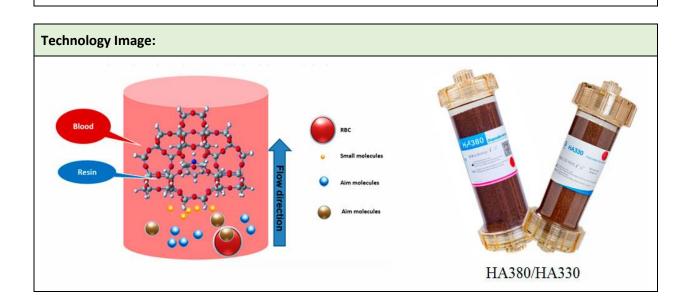


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patients with severe COVID-19. (It is	
recommended that further studies are	
performed in this regard)	
Health Benefits; Improve hemodynamic and	Restrictions; The technology is not effectively in
respiratory parameters, lower intensive care	patients with low cytokine plasma
unit (ICU) length of stay, reduced ICU mortality,	concentrations.
and no safety concerns. (Further studies	
required)	
Easy to use- disposable – no filter needed	limited peer reviewed clinical trials
Safety: Available studies shows that there is no	
serious unexpected device related adverse	
events, no clinically relevant albumin or platelet	
loss, and no clotting problems associated with	
its use	

We recommend an **approval of using this technology** with the following conditions:

- 1. Utilizing the Cartridge as per the manufacturer & treatments guidelines & standards.
- 2. Expert physician feedback is required
- 3. Establishing a proper quality monitoring process and reporting of any adverse events or unwarranted consequences including safety issues of employees and Patient
- 4. Provision of regular updates and reports about the product to DOH upon request.
- 5. Any other documents or information requested regarding the product and cost to finalize the approval process.

Moreover, DOH has the right to stop the product at any stage if deemed necessary, initial conditions and any subsequent conditions must be satisfied before obtaining final approval. Failure to do so will reflect in provoking the approval.









Question	Answer	Comments	
Which case?	According to clinical experience, hemoperfusion		
	therapy can be applied in the listed conditions;		
	- Pancreatitis		
	- Sepsis		
	- Trauma		
	- Cardiac Surgery		
	- severe Infection		
	-Severe Burn		
Which doctors?	Specialist – Consultant		
Which hospital?	Specialized Hospitals		
Inclusion criteria	Hemoperfusion therapy can be used alone or in		
	conjunction with CRRT/HD/HDF/SLED		
Exclusion criteria	patients with allergies to HA 330 (characterized		
	by hypotension and/or tachycardia), age <18 or		
	>85 years, and acute respiratory distress		
	syndrome (ARDS) or history of septic shock for		
	>12 h after diagnosis. Patients not treated with		
	RRT		

HA330/HA380 Use Criteria

