



GNV
HOSPITAL
SHIP

INTRODUCTION

- The **Hospital Ship** is a project developed by the ferry company **GNV** for the Ligurian regional health system, which involved the transformation of M / n Splendid into a fully equipped structure suitable to provide assistance to COVID-19 patients during the process of hospital discharge, for whom it was necessary to spend a period in a controlled structure before returning to their houses
- The company, which is part of the **MSC Group**, started working on the project together with **RINA** (leader among the service providers for the Energy, Marine, Certification, Infrastructure / Transport and Industry sectors) since the arising of the emergency, at the beginning of March 2020. This was made in close coordination with **the Regional Health System** and with the **Civil Protection** to define together a solution that can be implemented in a very short time and able to assist hundreds of potential patients, thus increasing the hospital capacity of **Liguria** and, where necessary also of other areas of the country.

INTRODUCTION

- The ship was formally delivered to the Ligurian Region on March 19th 2020: from March 23rd to June 20th 2020 the ship hosted **191 patients for a total of 2,900 days** of hospitalization plus 14 doctors, 30 nurses, 14 OSS and 5 reservists of the Order of Malta which operated on board.
- The project presents a high level of **flexibility** and **scalability** and **can also be immediately replicated** on other ships that can be used in different areas of the country and abroad as well. Recently, for example, GNV chartered five ships to the **Italian Ministry of the Interior**, in order to face the **humanitarian emergency in Lampedusa**, converting part of each unit into an area used to host passengers who were positive to **COVID-19**.

DETAILS M/n SPLENDID

LENGTH (M)
214,54

WIDTH (M)
27,60

SEATS
443

Tot. CABINS
456

INSIDE
CABIN
4 berth
303

SEA VIEW
CABIN
3 or 4 berth
124

SUITES
2 or 3 berth
27

CABIN
PASSENGERS
WITH REDUCED
MOBILITY
(Sea view)
2

PROJECT IMPLEMENTATION



STRUCTURAL CHANGES IN CABINS

- Totally independent external ventilation to guarantee air exchange for each single cabin;
- Rubber flooring used in hospitals, suitable for frequent sanitization;
- TV installation and internet connection;
- Reconfiguration of cabins with single bed and private bathroom.



HEALTH CARE

by and responsibility of the Genovese ASL 3

-
- Call button between patient and healthcare staff and between Safe Area and Unsafe Area;
 - portable radiological machinery;
 - Medicines fridge with temperature recording;
 - Emergency carts, drug carts and additional equipment;
 - Personal protective equipment for patients that present low complexity;
 - Reception areas, operations center, clinical record management and work station supply department (3) plus 1 at the triage at the garage entrance
 - Presence of an infirmary with beds and first aid equipment;
 - Check in and out with a badge with the definition of patient or healthcare staff.



FOOD SERVICE

- Menu made according to the specifications laid down by the Health Department, with attention to any needs (eg allergies, medical, ethnic etc.)
- Meals prepared in closed single-portions by the crew and arranged on special racks in trays;
- Trays transported with trolleys and distributed by sanitary personnel within the cabin area
- Dedicated area where trolleys and trays are sanitized before returning to the Safe Area.



WASTE MANAGEMENT AND OTHER SERVICES.

- Dedicated locked cabin for preliminary storage of waste coming from Unsafe Area;
- Storage area in the garage area for the management of special waste;
- Newspaper distribution.



GARAGE MANAGEMENT - AMBULANCES

In case of need, the configuration of the M / n Splendid allows further expansions thanks to the setting up of resuscitation and intensive care units with modular units in the ship hangars: easily accessible and carriageable places also for the rescue vehicles, suitable for being used also as a field hospital.



CASE HISTORY



GNV EXPERIENCE— HURRICANE MARIA

In 2017 GNV participated to a similar project on the occasion of the humanitarian emergency in the Caribbean territory, caused by Hurricane Maria; supporting the work of various institutions, including the Federal Agency for Emergency Management (FEMA), the US federal agency

GNV contributed by setting up a complex polyclinic unit equipped with multiple rooms, air conditioning and an independent fire-fighting system in the driveway hangars of one of its ships



GNV EXPERIENCE- MIGRANT HUMANITARIAN AND HEALTH EMERGENCY

In the summer of 2020 GNV chartered 5 naval vessels (Allegra, Azzurra, Aurelia, Rhapsody and Snav Adriatico) to the Ministry of the Interior as part of the health emergency of migrants landed on the Italian coast.

The ships have been recognized as suitable for preventing the onset of viral bacterial infections and containing their spread in the presence of infected people, thanks to their structure and the sanitation procedures, as well as the safety protocols adopted.



PRESS REVIEW GNV 1.109 articles

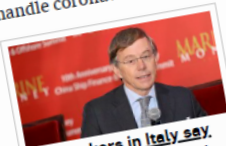
TradeWinds
The Global Shipping News Source

MSC and RINA to convert ferry into coronavirus hospital ship

Meanwhile, Italian classification society says it's too early to say what the commercial effects of the virus lock situation will be

12 March 2020 10:48 GMT
By [Holly Birkett](#)

Mediterranean Shipping Co (MSC) is working with classification society RINA and other stakeholders to convert a ferry into a handle coronavirus sufferers in Italy.



Shipbrokers in Italy say they won't be held back by virus lockdown

Ugo Salerno, RINA's chief executive, told TradeWinds that a roxap ferry belonging to MSC-own Navi Veloci (GNV) will be converted in the project, which is in its early stages.

The converted hospital ship will be able to handle sufferers of the virus or those who have been in quarantine, Salerno said.

The project has received the support of Italian shipowner Capt Gianluigi Aponte, founder of Switzerland-based MSC, the RINA chief said.

"Mr Aponte was very supportive of the idea," Salerno told TradeWinds.



L'emergenza La nave-ospedale convertita dalla compagnia Gnv ora al porto di Genova

Gnv consegna la prima nave ospedale

Consegnata ieri a Genova alla Regione Liguria la «nave ospedale» che la compagnia Gnv ha approntato per il sistema sanitario regionale, trasformando la Splendid in una struttura attrezzata per fornire assistenza ai pazienti con Covid-19. Il progetto è stato realizzato grazie alla collaborazione di Msc che controlla Gnv, della Regione e di Rina.

ECONOMIA&MARITTIMO

Grandi navi trasformate in ospedali, il modello Gnv replicato in tutto il mondo

Dal gruppo americano Carnival al britannico Saga: gli armatori mettono a disposizione le flotte per l'emergenza Covid-19

IL CASO
Matteo Martinuzzi

Il modello Gnv, con il traghetto Splendid trasformato a tempo record in ospedale d'appoggio nel cuore del porto di Genova, sta facendo scuola in tutto il mondo.



Il traghetto Gnv trasformato in nave-ospedale a Genova



La Sapphire, messa a disposizione del gruppo Saga nel Regno Unito

Dardanelli. Nel 1916, proprio mentre navigava in questa veste, colpì una mina tedesca ed affondò in meno di un'ora. Fortunatamente, stava giungendo privo di pazienti a destinazione e quindi ci furono solo 30 morti sulle 1.066 persone che si trovavano a bordo (equipaggio + personale medico). Anche le navi passeggeri italiane hanno avuto questi compiti in guerra. Quella più grande è stata il transatlantico della Società Italia Saturnia che alla fine della Seconda Guerra Mondiale fu requisita dagli Stati Uniti ed utilizzata come nave ospedale con il nome di Frances Y. Slanger. Ma anche la Regina Marina requisì diverse unità passeggeri per utilizzarle come navi ospedale nel corso del conflitto e prima per la campagna d'Abissinia.

Tornando al gruppo Carnival, ricordiamo che l'intera corporazione può vantare una flotta di oltre 200 navi suddivise in 9 differenti brand (gruppo).

È ormeggiata nel porto di Genova: potrà ospitare fino a 350 pazienti, da lunedì i primi ricoveri

Cabine con ossigeno e letti attrezzati La nave da crociera diventa un ospedale

di **Marco Lignana**

GENOVA - Non ospita più turisti sognanti in viaggio per Barcellona o Palermo ma chi, ancora debole e provato, è sopravvissuto al coronavirus. Il traghetto Gnv Splendid adesso è fermo, attraccato al porto di Genova. Trasformato a tempo di record in una immensa nave ospedale. Dove c'era l'onnipresente moquette ora ci sono pavimenti in resina o linoleum, dove c'erano folle spensierate ora ecco i malati in isolamento. Al posto dei camerieri, infermieri reclutati su base volontaria.

Da lunedì il traghetto ospiterà i primi 25 pazienti dimessi dagli ospedali della Liguria, ma ancora bisognosi di cure di bassa intensità. Oppure accoglierà chi deve passare i suoi 14 giorni di quarantena, ma non ha un posto adeguato dove trascorrerli. Un domani, poi, non è escluso che l'hangar possa essere attrezzato per ricevere pazienti in rianimazione.



La riconversione La nave Gnv Splendid

Insomma lo sforzo di Regione Liguria, del gruppo Msc, del Registro navale italiano (Rina) è stato enorme. E si è basato su un precedente: 2017, uragano Maria, di nuovo Gnv intervenuta con una propria nave. Lo Splendid, adesso, potrà ospitare fino a 350 pazienti e 50 operatori sanitari.

Per il presidente della regione Liguria Giovanni Toti «siamo la prima Regione ad aver individuato e attrezzato su tutto il territorio le strutture idonee per questo genere di pazienti». Per il sindaco di Genova Bucci «siamo i primi al mondo e anche New York adesso sta seguendo il nostro esempio».

La parte più complicata, nella

riconversione dello Splendid, è stato il lavoro sull'impianto di areazione: ora ogni singola cabina con oblò ne ha uno proprio. Perché il virus non deve assolutamente circolare al di fuori, ma rimanere confinato nella stanza. Per il resto, tutte le camere sono provviste di bagno privato, televisione e connessione Internet. Mentre le aree di ristorazione presenti a bordo permettono la somministrazione dei pasti nel rispetto delle distanze di sicurezza previste dalle nuove norme anticontagio.

Numeri dei positivi fanno paura anche in Liguria, ed è facile immaginare che saranno i pazienti del territorio a occupare la nave. Ma il traghetto potrà ospitare anche malati da fuori regione. Oltre a spostarsi, ovviamente, laddove ci sarà più bisogno. «E siamo disposti - dice l'ad di Rina Ugo Salerno - a offrire questo concept di emergenza a coloro che avranno la necessità di replicarlo».

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THANKS



BACKUP



- The project saw the **active participation of RINA**, which provided its know-how and long experience in the field of certifications and inspections in the maritime sector free of charge. RINA verified that the project complied with the regulations in force, identifying the correct balance between the protection of safety, naval regulations and the medical needs of a hospital: The validation of the project took place after the checks carried out by the Ligurian Health System and the Civil Protection about all the features to perform the required functions.



GNV is the first company in the ferry sector to receive the Biosafety Trust Certification, RINA's innovative certification scheme to prevent and mitigate the spread of infections in meeting places. In addition to the ships in the fleet, the certification for GNV also includes the Italian cargo and passenger port terminals, and administrative offices.



Following the inspections made by Rina, the mm/ss Superba, Allegra and Rhapsody have been found to be suitable for receiving the additional "Ship Biosafe" class notation for their construction characteristics, as well as for a series of actions implemented by GNV as the organization of spaces, health screening on board, procedures in case of biological risks, training for seafarers on board and an ad hoc investment plan for the management of possible infections with the aim of helping to prevent and mitigate possible infections