

GRADING OF HOSPITALS BOON OR BANE?

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Neil Armstrong Vs Anil Allstrong



- I am Anil Allstrong...Member of NASA
- Presently with ISRO
- NABH Lifetime Achievement awards
- ISO20246/6 Certified

Key to abbreviations

- ❖ **NASA**: National Association of Surgeons of All Specialties
- ❖ **ISRO**: Indian Society of Regular Office-goers
- ❖ **NABH**: National Association of Builders of Hospitals
- ❖ **ISO**: Indian Society of Ophthalmologists

What comes to my mind about Grading of Hospitals?

- Star ratings of Hospitals
- All the efforts involving rating of hospitals 360 degrees perspective

Grading of Hospitals: Boon or Bane

I strongly feel it is a **BOON**

Grading of Hospitals is BOON for:

Insurance companies: They can have variable premiums and discount off many things in every claim CGHS and Public undertakings which follow CGHS Tariff/ECHS etc: Quoting star ratings they can further cut the packages till there is nothing further to cut.

ACCREDITATION PROCESS CONSULTANTS:

STAR RATING	CONSULTATION FEES
*	Ten lakhs + GST
**	Twelve lakhs + GST
***	Fifteen lakhs + GST
****	Seventeen lakhs +GST
*****	Twenty lakhs + GST
*****	Fifty lakhs + GST



Seven Step Process for Overall Star ratings

1. Selection and standardization of measures
2. Assignment of measures to groups
3. Calculation and standardization of measure group scores
4. Calculation of hospital summary scores as a weighted average of available group scores
5. Application of minimum thresholds for receiving an Overall Star Rating
6. Assignment of hospitals to peer groups based on their number of measure groups (3, 4, or 5)
7. Application of clustering algorithm to categorize summary scores into star ratings

Measure group and weights

Measure group	Weight used in calculation
Mortality	22%
Safety	22%
Readmission	22%
Patient Experience	22%
Timely & Effective Care	12%

If a hospital has no measures in a certain measure group, the weighted percentage is redistributed proportionally to the other measure groups.

Measure 1: MORTALITY

Death rate for heart attack patients	7/1/2018	6/30/2021*
Death rate for coronary artery bypass graft (CABG) surgery patients	7/1/2018	6/30/2021*
Death rate for chronic obstructive pulmonary disease (COPD) patients	7/1/2018	6/30/2021*
Death rate for heart failure patients	7/1/2018	6/30/2021*
Death rate for pneumonia patients	7/1/2018	6/30/2021*
Death rate for stroke patients	7/1/2018	6/30/2021*
Deaths among patients with serious treatable complications after surgery		

Safety of Care

Central line-associated bloodstream infections (CLABSI)	4/1/2021	3/31/2022
Catheter-associated urinary tract infections (CAUTI)	4/1/2021	3/31/2022
Surgical site infections from colon surgery (SSI: Colon)	4/1/2021	3/31/2022
Surgical site infections from abdominal hysterectomy (SSI: Hysterectomy)	4/1/2021	3/31/2022
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) Blood Laboratory-identified Events (Bloodstream infections)	4/1/2021	3/31/2022
<i>Clostridium difficile</i> (<i>C. diff</i>) Laboratory-identified Events (Intestinal infections)	4/1/2021	3/31/2022
Rate of complications for hip/knee replacement patients	4/1/2018	3/31/2021*
Serious complications	7/1/2019	6/30/2021*

National distribution of the Overall Hospital Quality Star Rating-USA

Overall rating	Number of hospitals (N=4,654, %)
1 star	250 (5.4%)
2 stars	668 (14.4%)
3 stars	872 (18.7%)
4 stars	803 (17.3%)
5 stars	483 (10.4%)
N/A	1578 (34.0%)

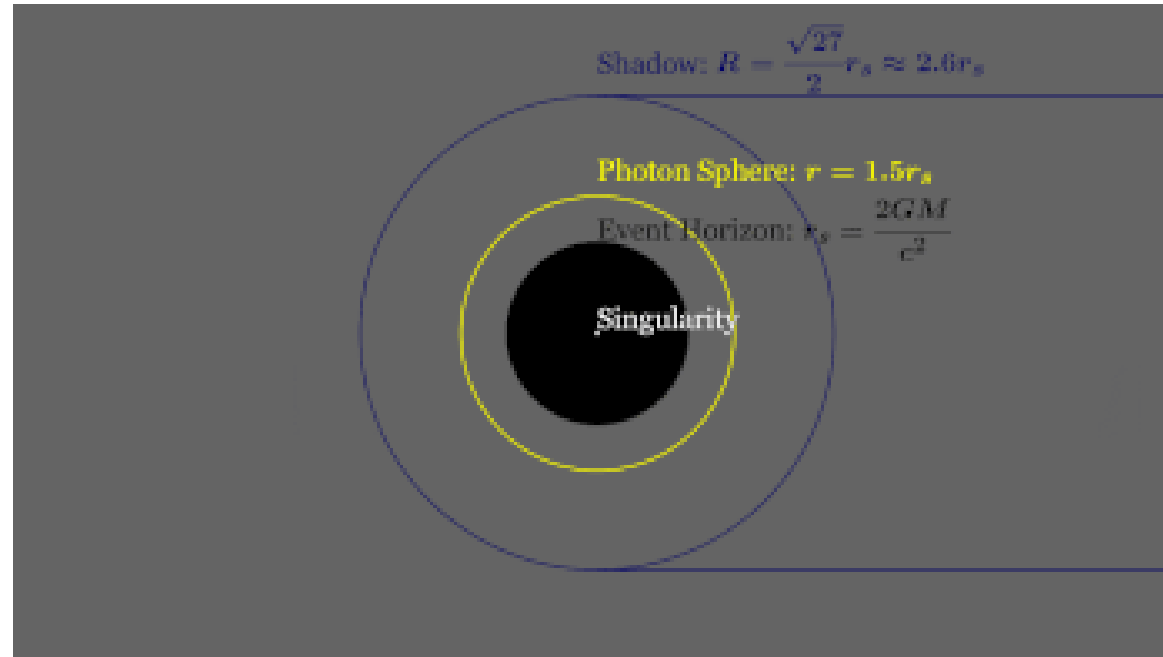


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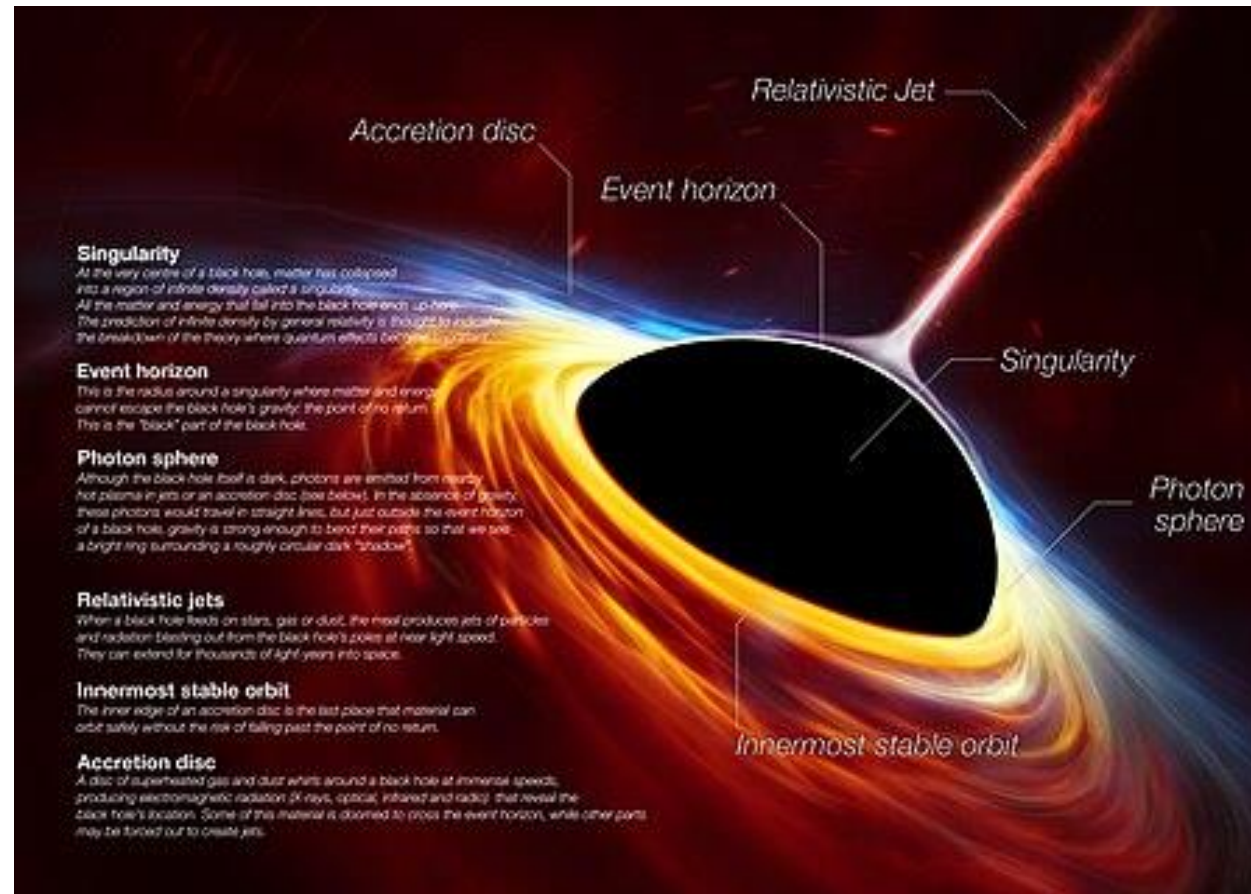
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Depiction of how light rays can be bent in a black hole



Artist's depiction of Black hole



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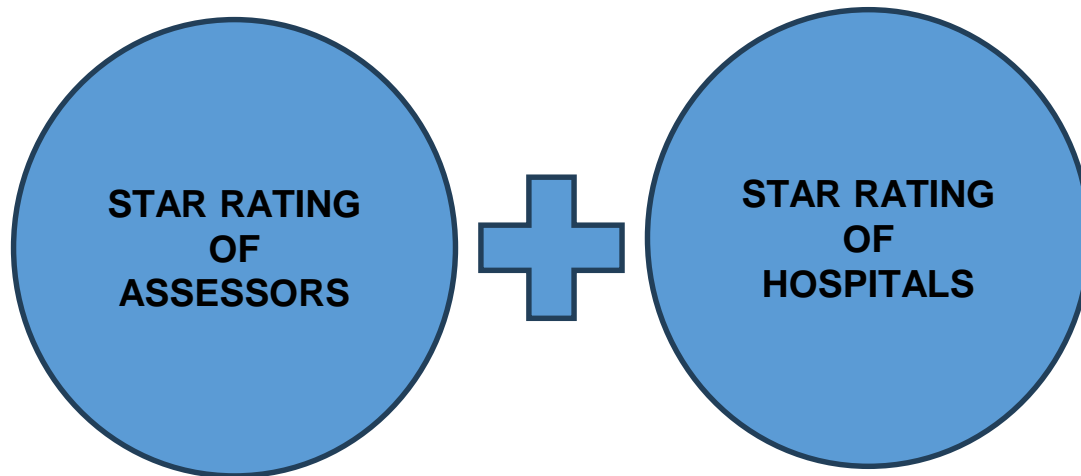
Classification of Black holes

Classification of Black holes		
Class	Approx. mass	Approx. radius
Ultramassive black hole	$10^9 - 10^{11} M_{\odot}$	$>1,000 \text{ AU}$
Supermassive black hole	$10^6 - 10^9 M_{\odot}$	$0.001 - 400 \text{ AU}$
Intermediate-mass black hole	$10^2 - 10^5 M_{\odot}$	$10^3 \text{ km} \approx R_{\text{Earth}}$
Stellar black hole	$2 - 150 M_{\odot}$	30 km
Micro black hole	up to M_{Moon}	up to 0.1 mm

Orientation class for quality department in Star rating of hospitals

- While the mass of a black hole can take any positive value, the charge and angular momentum are constrained by the mass. The total electric charge Q and the total angular momentum J are expected to satisfy the inequality
- $$\frac{Q^2}{4\pi\epsilon_0} + \frac{c^2 J^2}{GM^2} \leq GM^2$$
- This basic knowledge is in addition to Sentinel events and Medical audits.
- Same quality team can easily handle this. Assessors will understand this on a zoom meeting.
- NABH can save money on transport and accommodation.
- Video on is not mandatory. Assessors are allowed to doze off while the session on star rating is going on.

Perfect example of PERFECT STORM: Lethal combination



DREAM PROJECT: Project what you see In your dream, you wake up, dismiss as Bad dream due to eating cheese and get On with life.

In case due to our Misfortune, the dream comes true, NABH will become HISTORY : RIP

Atma Nirbhar Bharat and not
Atma Durbhar Bharat

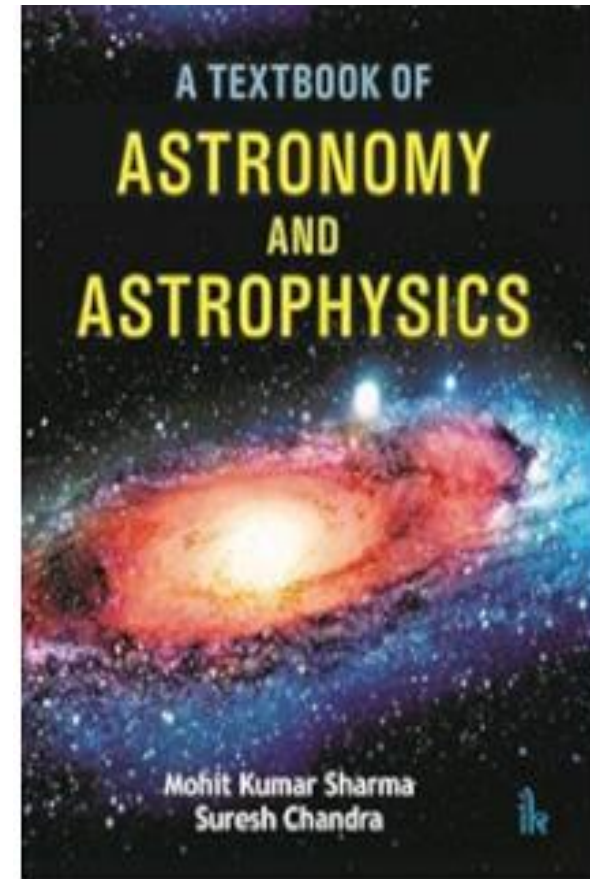
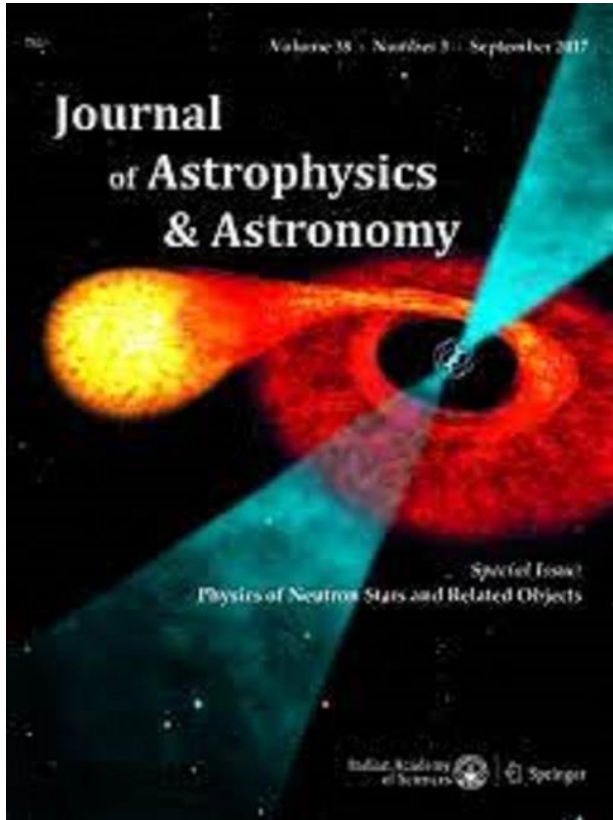
Physician Vs Physicist

- More job opportunities for Physicists in hospitals.
- Their job description is ONLY REGARDING HOSPITAL STARS and make sure top management does not get sucked into BLACKHOLE.

Other Resources

<https://data.cms.gov/provider-data/topics/hospitals/overall-hospital-quality-star-rating/#measure-included-by-categories>

Additional training for Quality department



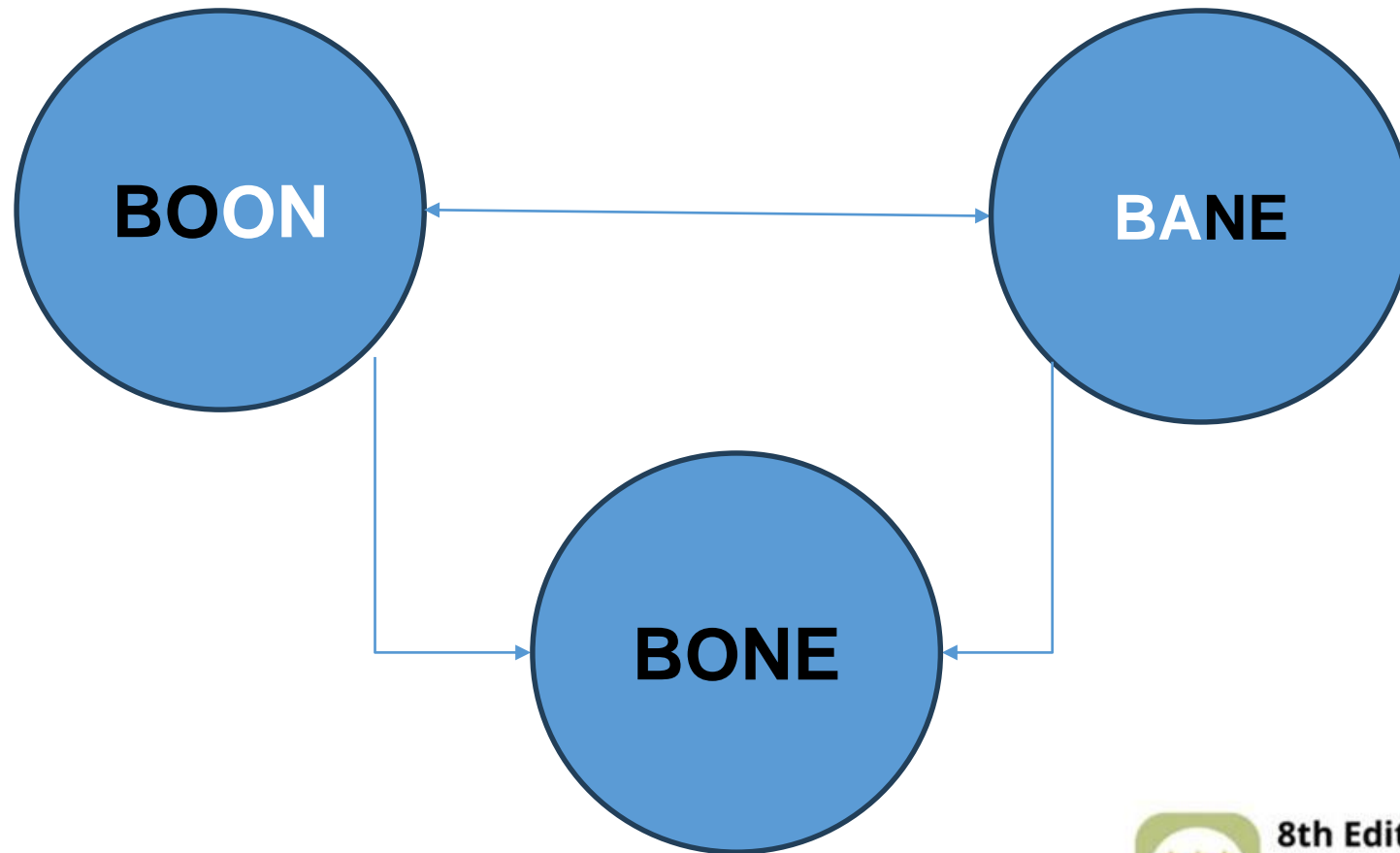
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THANK YOU