The Past, Present and Future of Medicine

Medicine is the art and science of healing. In ancient times, herbs, animals and minerals were used as medicines by religious godmen and priests, who were considered healers and curers. They were known to perform miracles, save people’s lives and appeal to god in a quest to obtain the truth. Soon the Greek physician Hippocrates, the Father of Medicine, categorized illnesses as acute, chronic, endemic and epidemic. This provided the first rational approach to the art of curing and treating illnesses. Eventually some great surgeons of ancient times like Galen of Greece, began performing ambitious and risky brain and eye surgeries using primitive tools and having only limited knowledge of medical science. From this point on, as science and technology slowly developed, medicine became more reliant upon medications. The first antibiotic, arsenamine was then discovered by Paul Ehrlich. Thus a method to tackle bacterial infections was devised and more and more antibiotics against specific strains of bacteria were created. Various vaccines and pharmaceuticals such as aspirin soon came into existence as well. In ancient times, plant extracts and products were used to treat people in severe pain, fighting for their lives. This traditional method of treatment is referred to as herbalism, which is now redundant. Modern biotechnology has made it possible to create drugs targeted towards specific physiological processes with reduced side effects. All this has resulted in a much higher life expectancy and improved quality of life. Development in modern genetics and molecular biology has made it possible to pin point exactly which gene is defective in a particular monogenic genetic disorder. Medical technology, practice and decision-making is at a much higher level than what it was just 20 years ago which shows how medical science always seems to keep improving, without any boundaries.

The 20th century has been described as the century of molecular biology and medical science. Cancer-killing nano-particles, fat fighting nucleic acids and many more breakthroughs are set to transform the face of health care. Obesity and diabetes will be problems easy to tame and control. A drug against the constantly mutating common cold virus may also hopefully be developed and we would bid runny noses goodbye! Medical science is set to get far more rational and preventive than ever before! Perhaps the most intriguing aspect is the predictive power of medicine. The possibility of a disease developing in an individual will be determined and appropriate preventive measures would then be taken. It would also be possible to check an individual’s current health status and monitor the functioning of his/her organ systems. Another crucial aspect would be providing information about the detrimental effects of certain environmental factors on an individual’s genes such as sunlight, which could cause skin cancer.

With powerful new systems and technologies, complex diseases such as Alzheimer’s, diabetes, cancer and obesity will be treated with new and improved drugs and therapeutic methods. Thus, it is clear that the field of medicine is growing from strength to strength and is definitely one of the brightest prospects for the coming years! As Thomas Edison once famously said, “The doctor of the future will give no medicine but will interest his patients in the care of the human frame, in diet and in the cause and prevention of disease.”

-Ishan Sardesai, 12
Wonder - The Seed of Science

Eureka! The cry of the Greek scientist Archimedes is etched firmly in our minds, as is the story that goes with it. Wrestling with a problem posed to him by King Hiero II, Archimedes, while having his bath realized that the water displaced by him was equal to his mass. This gave rise to the Archimedes principle, using which Archimedes could tell the King whether his crown was made of pure gold or not. This story serves to highlight an important aspect of Archimedes character - his elation and joy on unveiling even the smallest of Nature’s secrets. Newton shared the same zest and enthusiasm for science as did Archimedes. Though countless people had seen an apple fall from a tree, few (if any) wondered why. Newton not only questioned this natural phenomenon but also made several daring assumptions, which proved to be a turning point in science and led to Newton’s Law of Universal Gravitation. Newton buttressed his beliefs with precise calculations, worked persistently, careless of food and sleep. Archimedes and Newton were scientists who recast their work from an exercise in cold rationality to an aesthetic experience. They reveled in the difficult work of teasing truth out of a reclusive nature, and experienced frequent moments of awe and wonder.

“In Wonder all Philosophy began: in Wonder it ends.”

Much of scientific passion is summed up in that childlike but infinitely complex word wonder. Plato argued that the notion of wonder was central to all philosophical and scientific thought, “In Wonder all Philosophy began: in Wonder it ends.” Einstein concurred with this sentiment and thought that anyone incapable of standing rapt in awe, blind to wondrous nature was as good as dead. “I do not know what I may appear to the world,” Newton said before he died, “but to myself I seem to have been only like a boy playing on the sea-shore, and diverting myself in now and then finding a smoother pebble or a prettier shell than ordinary, whilst the great ocean of truth lay all undiscovered before me.” His words echo his wonder and fascination with the world around him and serve as a reminder to us to understand and revel in the infinite patterns of nature.

-Tushar Bhargava, 12

Magic behind the Magic Square

Easy Way to Make a Magic Square

<table>
<thead>
<tr>
<th></th>
<th>A</th>
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</thead>
<tbody>
<tr>
<td>11</td>
<td>8</td>
<td>B</td>
<td>2</td>
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<tr>
<td>5</td>
<td>10</td>
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<td>4</td>
<td>D</td>
<td>6</td>
<td>9</td>
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</tbody>
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1. Choose a number between 22 and 99 (which will be the sum of the numbers-horizontally, vertically, diagonally)
2. Fill in the boxes with these numbers
3. According to the sum (chosen in Step 1), fill in A, B, C and D
4. Voila! There you have your Magic Square! :

SCI-Facts

- There are more stars in the universe than there are no. of sand grains on earth
- A Hippo’s sweat turns red when it gets angry
- A duck’s quack never echoes

- selected by Gyan Pratap Singh, 12

Bazzinga!

Rajesh Kootrapali: I don’t like bugs, okay? They freak me out.


This one simple quote sums up the brilliance of Sheldon Lee Cooper - extremely smart, infuriatingly hilarious and an individual who can make almost everyone laugh. In the show, everyone is chasing something or someone whereas ‘Shelly’ seems to be at peace with himself. His only pursuits are related to solving the questions of science or watching shows like Firefly. Sheldon Cooper is a theoretical physicist, whose love for Spock and his spot is fascinating. His ‘Bazzinga’ punch lines usually have viewers splitting their sides with laughter. The reason Sheldon is preferred over most television actors is simple. The jokes he pulls off are nerdy, complicated but also easy to understand.

Sheldon Cooper has been nominated for the Nobel Peace Prize!

Bazzinga!

-Arman Puri, 9
CRICKET FRENZY

The problem is not that our 'boys' have been playing too much cricket. It's that they haven't been playing cricket. They've been playing advertising driven, media orchestrated, high decibel abbreviated formats, namely IPL, where focus, concentration, technique and staying power count for little. You bet sixes over shortened boundaries, swank in and out in perhaps 30 balls, yet swagger all the way to the bank with $2M! Some players have done IPL seasons but skipped going to the West Indies just before difficult tours. Others, when 'tired' took their 'break' from playing for the country. They played in the IPL, though, injuries and all. England and Australia were disasters waiting to happen. Just weeks ago, the pundits speculated that this was our best chance ever to beat Australia in Australia. Our best team possible! Did the best team ever age in weeks? What happened? IPL happened – and happened long before the disaster tours. A team full of players carrying injuries, playing 90 days of sub-standard club-level cricket happened. That prepares you only for more sub-standard stuff, year after year, not cricket at the highest levels. They continue playing there with injuries because the BCCI-IPL has brought big bucks to the private-owned side of the sport. The system and gene pool of Indian cricket have been and are being radically altered for the worse. We need to think about how to revive the domestic game, rescue cricket from the billionaires club and restore it to the public domain. And trust me, advertising led big money came into Indian cricket due to its performance; it will soon pull out, as public at large have little interest in following a losing team.

Special Olympics Youth Summit

The Special Olympics organized a Youth Summit in Vasant Valley School. Many children from different schools came to our school where a Group Discussion on how we can ban the 'R' word (retard) was held. Varun Datta and I showed a presentation related to the purpose of this Summit. The Summit ended with a group photograph followed by a lunch organized for all of us. This was a good experience for all the children who participated in it, including me. It was a great platform for all of us to come up with solutions through our presentations.

R.I.P. NIPPY

Whitney Elizabeth Houston, affectionately christened "Nippy" by her father, was born on August 9, 1963. She was found lifeless, submerged in her bathtub, on February 11, 2012, hours before the 2012 Grammy Awards. "The voice of an angel stilled by life's demons" - wisely headlined by The Age (Melbourne) - is a sentence that proficiently exemplifies the heartfelt passion and burning sentiment people felt on this tragic day for the deceased artist, actress and model. Houston was a formidable singer. She was one of the world's best-selling music artists, having sold over 170 million albums, singles and videos globally. She released seven studio albums and imbued several African-American female artists with the desire to follow in her glorious footsteps. Her debut in acting was as the star of the feature film 'The Bodyguard' (1992). The film's original soundtrack won the 1994 Grammy Award for Album of the Year. Its lead single "I Will Always Love You" became the best-selling single by a female artist in music history and affectionately christened "Nippy" by her father, was born on August 9, 1963. She was found lifeless, submerged in her bathtub, on February 11, 2012, hours before the 2012 Grammy Awards. "The voice of an angel stilled by life's demons" wisely headlined by The Age (Melbourne) - is a sentence that proficiently exemplifies the heartfelt passion and burning sentiment people felt on this tragic day for the deceased artist, actress and model. Houston was a formidable singer. She was one of the world’s best-selling music artists, having sold over 170 million albums, singles and videos globally. She released seven studio albums and imbued several African-American female artists with the desire to follow in her glorious footsteps. Her debut in acting was as the star of the feature film 'The Bodyguard' (1992). The film’s original soundtrack won the 1994 Grammy Award for Album of the Year. Its lead single “I Will Always Love You” became the best-selling single by a female artist in music history and is unquestionably Whitney’s paramount. She was a mezzo-soprano and was baptized “The Voice” in reference to her incomparable vocal talent. Her every performance was dizzying, mesmerizing and unparalleled. In a world where music is swiftly and dreadfully turning unnatural and computerized, it is deplorable to lose a performer whom no one could rival in exquisite vocal fluidity, purity of tone, and ability to infuse a lyric with compelling melodrama.

The cause of the celebrity's death is undetermined. Whether her demise was accidental or not is still ambiguous. After her marriage to musician Bobby Brown in 1992, Houston allegedly slipped into substance abuse. Her only daughter, Bobbi Kristina Houston Brown, born in 1993, was hospitalized twice following the news of her mother’s passing. Whitney’s tainted reputation initiated a wide array of semi-fabricated and rushed conclusions. I however, firmly deem it unreasonable, unjust and unmerited not to respect the remarkable gift this woman possessed. I for one am inexecutable, knowing that another exceptional artist will not be given the recognition she deserves. Here ends my feeble attempt to pay her tribute. Whitney Houston, I will always love you.

Pia Chatterjee, 12
Dhananjaya Chak, Green House Captain of the Batch of 2003, now plays county cricket in England. Having played for the Jesters and Roehampton clubs, he was even invited to play for I Zingari, one of the oldest, most prestigious amateur cricketing clubs in England. This is what he had to say to the Editorial Board.

**NL:** What inspired you to become a cricketer?

Dhananjaya: Sachin Tendulkar is my inspiration. It was a game we always played. I played for school, college, I played for the under-19 Haryana team and for an under-19 Gurgaon team.

**NL:** How did you start playing cricket in England?

Dhananjaya: I went to NALSAR (in Hyderabad) to study law and was recruited by a firm in London. In London my colleagues played cricket and so, naturally I started playing with them.

**NL:** How do the skills of the cricketers in England compare to those in India?

Dhananjaya: The players are on the same level. The physical levels of cricketers in India and England are different, though in cricket this doesn’t matter.

**NL:** How do the pitches in England compare to those in India?

Dhananjaya: The pitches in India are easy to bat on. One can free his front foot, and there’s no need for quick runs. However, in England the ball swings. It is harder to play on and the ball rarely comes on to the bat.

**NL:** What is your favourite cricketing memory?

Dhananjaya: When I was in class 12, in the YPS tournament, 5 runs were required off the last ball. I hit the ball for a six!

Ours Truly

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Trip To Yamuna

Recently, the school took us for a day trip to Yamuna. We went in the bus to Wazirabad where the river enters Delhi. Its source is at Yamunotri, in the Himalayan Mountains and is the largest tributary of the Ganges. What was once described as the life line of the city has become one of the dirtiest rivers in the world. We went to see the Najafgarh drain which along with other drains throws its waste into Yamuna without any treatment. Yamuna is getting choked with sewage, industrial chemical waste, polythene bags etc. Yamuna is dying a slow death as the river is being reduced to nothing but a black drain. I strongly feel that we children have to wake up to our city’s needs and do our bit. It could be as small as saying “No” to polythene bags.

I am Yamuna

Insulted, horrified, irritated, disappointed. This is how I feel. I am a river, supposedly worshipped, and yet, I am treated like I amount to nothing. I am filthy, choked, and now angry. My birth is beautiful. Initiating from an examination to an untied lace, Infinite love and worry is writ large in her face. Every now and then her eyes begin to leak. She’s endlessly tough yet incredibly weak, She’ll forever keep you happy and whole. They play sisters, mothers and magnificent wives. Women. So tender and full of love, It’s a surprise even god could create them alone. The most beautiful work of art ever known, Unique creatures, a creation so fine, From an examination to an untied lace, It’s a surprise even god could create them alone. The most beautiful work of art ever known, Unique creatures, a creation so fine, It’s a surprise even god could create them alone. The most beautiful work of art ever known, Unique creatures, a creation so fine, From an examination to an untied lace, Infinite love and worry is writ large in her face. Every now and then her eyes begin to leak. She’s endlessly tough yet incredibly weak, She’ll forever keep you happy and whole. She holds the gift of birth in her arms, Strives to keep her loved ones from harm, She’s endlessly tough yet incredibly weak, Every now and then her eyes begin to leak. Infinite love and worry is writ large in her face. From an examination to an untied lace, She’s-strong-willed, determined and committed, But there isn’t a place her heart couldn’t be fit Each one is a gem, a masterpiece, A spicy mixture of sweet and sour, Don’t dare to doubt a woman’s power! :)
A World without Electricity ...

Can you imagine no light at night?
No radio, no T.V., no computer in sight
Things would be different without electricity today
The way we live, work, study, even play!
No batteries to charge our
wonderful toys...
No machines producing incredible noise
I think electricity was the best invention ever
Thomas Alva Edison was very very clever!
How would we get X-ray or operation done?
Without my Xbox and iPad I would have
no fun.
Maybe I will go and play in the park
Oops. I’ll have to return home the minute
it gets dark!
Bill Gates, Steve Jobs and so
many more
used electricity to produce
gizmos galore!
Without electricity life would be so sad
No heaters or A/C’s – Phew! We’ll
go mad!

Ayaan Gulyani V- C

A World without Electricity ...

...Would be a very dull place
The nights would be seeped in darkness,
Many woes would befall the human race!
New York would no longer be,
The city that never does sleep,
Without the refrigerator and washing machine,
How all the women would weep!
With no T.V. and video games,
What would the little kids do?
But look at the bright side,
They’d read good books and play outdoors too!
Grown-ups would sleep on time,
Their lives will be a lot less wild,
The starry night sky would get more attention,
And no longer be the unwanted child!
A world without electricity,
Would not be bad at all,
There’d be a decline in global warming
It might actually be good for our blue ball!

Arusha Nirvan V- B

Bio Poem
This is a story of a boy named Ishaan
Often called Ishoo by his mom.
He is a boy that’s Funny, Happy, Caring
And to his elder brother’s dismay,
quite competitive too.
He loves to eat Fish, Meat, Rajma Chawal
and screams at the sight of vegetables,
Saying they will make him turn green.
Loves fishing, reading and of late,
Mindspark too.
He wants to be the best in Maths, Science
and like his idol Messi-a soccer wizard too.
He loves to play soccer of course,
basketball, cricket
and every other sport,
when he has homework to do!
He believes everybody is equal in God’s eyes.
Which is exactly the way it should be.
Because of his speed and zest a pocket rocket would describe him best.

Ishaan Sharma IV- C

My Pet
My pet is a lovely, white rabbit. My
rabbit is very soft and cute. Its name
is Furry. It loves to eat carrots and
fresh leafy vegetables. Furry is very
intelligent and easily understands all
my instructions. It follows me where
ever I go in the garden and loves to run
behind me. I take good care of Furry. I feel very sad when it falls
sick and I take it to the vet. My pet
Furry is the best pet in the world!
We both love each other very much.

Mahika Dalmia III- B

Science Day
Early in the morning when I went to school, I went for a assembly. After
that I did some work in Maths and
English. Then we went to see the Science experiments as it was Science Day. The experiments we liked the most was the balloon experiment as they put a balloon on top of 100 nails and it didn’t burst! Then we went to the field and we saw dogs. They were cute. Tiger and Sugar were the names of two dogs. Everyone was scared of Tiger. He looked like a German Shepherd. We also saw two dogs fighting. I enjoyed the Science Day.

Devanshi Sawhney and Rohan Singh Pahwa II- C
**Which Music Artist Are You?**

In the celebration of the Grammys and Oscars, and the spirit of music and entertainment, take this quiz to find out who YOU resemble most! 😊

**Q1** Which colour do you like most?
A) Maroon or Red
B) Black or Lavender
C) Purple or Blue
D) Green

**Q2** Which animal would you want to be?
A) A Panda, “The most excellent bear.”
B) A cheetah: fast and agile
C) A zebra: you work best in groups
D) A cat: with quick reflexes

**Q3** What do you do in your free time?
A) Practise your favourite instrument
B) Write, laze around, enjoy life
C) Be active and do something fun, like skateboarding
D) Do something creative

**Q4** What is your biggest flaw?
A) You don’t know your biggest flaw
B) You trust everyone
C) You are scared of small spaces, and get frazzled soon
D) You aren’t very versatile, and have a few comfort zones

**Q5** Which season do you love most?
A) Spring
B) Winter
C) Summer
D) Autumn

**Mostly A’s:** There’s nobody cooler than you, because you are Bruno Mars! With a good sense of humour and better personality, you top the charts with your soulful beats!

**Mostly B’s:** You were born to rule and you live to sing! With your original lyrics and eccentric fashion sense, you brighten up almost anything! No prize for guessing; you’re Lady Gaga!

**Mostly C’s:** You’re super caring and for you, beauty is on the inside. You aren’t overly dramatic, and are pretty much cool about everything. Every Belieber is catching your awesome fever, you’re Justin Bieber!

**Mostly D’s:** There could never be ‘Someone Like You’, as you have our own beautiful personality and rustic charm. You are ambitious, and very down-to-earth! You’re music sure is swell, hands down, you’re Adele!

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**COMIX**

I wouldn’t go so far as to call myself a comic aficionado. And trust me, if you thought people had weird obsessions about pointless things, I’m sure an even weirder obsession related to comics exists. I tend to doodle a lot at the back of my notebooks, not that I try to end up creating a comic. It’s actually way beyond just getting to grips with boredom; I’ve realised. Comics mean serious business, and drawing them in what we have come to realise is a ‘characteristic style’ is actually pretty difficult. What’s even more intriguing but heartening about comics, is that they tend to be about almost anything. You can’t tell a writer to write a completely meaninglessness collection of words and somehow weave them into a completely senseless story, but I’ve come to learn that you can draw five pictures in a page, make them say anything you’re thinking of, and a story comes to life. Even if it doesn’t mean anything. Try this someday, next time you can’t stay up through something. Takes the mind off a lot.

I didn’t know much about Mario Miranda, the Goan comic artist who died recently, but when I looked him up later, I realised he’s just like any other comic artist: someone who could make up a story out of a careless scribble. And that’s where the strange sentiment of creativity comes through. This ‘art’ was discussed at the New Delhi Comic-Con held about a week ago (I didn’t know it even existed). You’ve got a lot of people coming together to tell you what a careless scribble means to them, but that’s about it. Beyond that, said Robert Crumh, the chief guest here, it’s up to you what a line scrawled means.

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**STRAWBERRY SHORT “KICK”**

Can’t resist popping the picture perfect strawberry candy into your mouth? Beware! It could lead to the popping of your existence. It’s the new “drug” being peddled in schoolyards in the garb of Strawberry pop rocks (the candy that sizzles and ‘pops’ in your mouth). It’s a type of crystal methamphetamine, being called ‘strawberry meth’ or ‘strawberry quick’, luring oblivious children with other all-time favorite flavors like Chocolate, Peanut Butter, Cola, Cherry, Grape and Orange. So please avoid sweet offerings from strangers and unsuspecting peers because this one does more drastic damage than just cavities.

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**Coming up, The Future**

**Philips Fluid Concept Phone:** Philips’ latest offering, the Fluid, is a stunning OLED device, with PlayStation-style gaming controls and an exciting, bendy form factor that rolls up around to be worn on the wrist.

**Windows Concept Phone:** This is a transparent phone, made of unbreakable glass. The surface will change as per weather conditions, for example, a display of water droplets on a rainy day. To draw of enter text, or switch modes, the reader has to blow air on the screen. Futuristic!

**iWeb 2.0:** As our laptops get smaller and more portable, our keyboards become more cramped-enter the folding keyboard. This progressive design would help mobile users save their backs without making typing a pain.

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**Editorial Board**


**Editor:** Vandita Khanna

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Yesterday, I read a really good movie!

–Aabshar Wakhloo

If only we were assigned such movies to read over the summer…

Q. What does RO stand for?

Isn’t it the disease ‘Auro’ has? - Vrinda Puri

***Really, REALLY not.***

There are 1000 kilograms in a kilometer

–Arhaan Jain

Wait till Mrs. Sood gets her hands on you…

He broke school’s world record. –Diya Narag

We love that school is your whole world, but no.

He broke 5-6 legs –Diya Narag

The only thing that can save you now, is if you were talking about Oswald, the octopus.