

**RECORD OF e CLASS USING ZOOM WEBINAR**

**ZOOM WEBLINK:3388413098**  
**TOTAL NUMBER OF PRESENT:93**

|                       |                                    |
|-----------------------|------------------------------------|
| <b>PRESENTATION</b>   | <b>LECTURE</b>                     |
| <b>TOPIC</b>          | <b>CALCIUM</b>                     |
| <b>PRESENTER</b>      | <b>DR.SANTHINI</b>                 |
| <b>DEPARTMENT</b>     | <b>DEPARTMENT OF BIO CHEMISTRY</b> |
| <b>DATE</b>           | <b>20.04.2020</b>                  |
| <b>TIMING</b>         | <b>9.30 AM TO 10.30 AM</b>         |
| <b>UG PARTICPANTS</b> | <b>FIRST YEAR BDS 2019 - 2020</b>  |



Calcium & Phosphorus 2019 - Microsoft PowerPoint

Home Insert Design Animations Slide Show Review View

Paste Copy Format Painter Clipboard Slides Layout Reset Delete Font Paragraph Text Direction Align Text Convert to SmartArt Drawing Arrange Quick Styles Shape Fill Shape Outline Shape Effects Find Replace Select Editing

## Sources

**Best Sources**

- Drumstick leaves
- Milk, yogurt, and cheese are the main food sources of calcium.
- Kale, broccoli, and Chinese cabbage are fine vegetable sources of calcium
- Fish with soft bones, such as canned sardines and salmon, are fine animal sources of calcium.
- Most grains (such as breads, pastas, and unfortified cereals), while not rich in calcium, add significant amounts of calcium to the diet because people eat them often or in large amounts.

Slide 3 of 40 "Default Design"

Bonthala Sreya



Clipboard Slides Font Paragraph

Slides Outline

24 Regulation of Extra cellular Calcium

- By Three hormones
  - Parathyroid hormone
  - Calcitriol / 1,25 D
  - Calcitonin
- By Three important organs
  - Intestine
  - Bone
  - Kidney

25 Regulation of Extra cellular Calcium

Vitamin D

- Enhances the absorption from intestine by increasing the concentration of calcium protein & calcium transporters at brush border of enterocytes
- It helps in mineralizing of bones
- It reabsorbs calcium from distal renal tubule

26 Regulation of Extra cellular Calcium

Parathyroid Hormone

- Enhances 1,25 D synthesis thereby increasing the absorption of calcium
- It mobilizes calcium from the bone by osteoclasts
- It reabsorbs calcium from distal renal tubule

27 Regulation of Extra cellular Calcium

Slide 39 of 40 'Default Design'

### Decreased conditions-

- Hyper parathyroidism
- Vitamin D deficiency
- Starvation, Malabsorption, Vomiting
- Intracellular shift during insulin therapy

Niranjan Kumar (me)

BB biochemistry... (Host) REC

Akshaya. Sa

AP Aaron Philip

AS Aishwarya Saravanan

A Aishwarya.k










Akash J

Invite

biochemistry bds' screen



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|   |   |   |
|---|---|---|
|  <p>Niranjan Kumar</p>     |  <p>Bhuvanesh G</p>           |  <p>Charu lekha Y</p>        |
|  <p>Haripriya V</p>       |  <p>Divya Mohan</p>          |  <p>Sushurutha ananthan</p> |
|  <p>Rahul Vishwanath</p> |  <p>vandana vijayakumar</p> |  <p>Gunali G.V</p>         |



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Leave Meeting      338-841-3098      Unmute      Stop Video      Share Content      Participants      More

Switch Camera     

Switch to Active Speaker     

Ramith Samuel

badma priya

Divya Mohan

Daisy Mary

Sri Sindhu

Charu lekha Y

Surya gayathri

Nandhini R




Akshitha Madhvaraj





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**PARTICIPANTS VIDEO TILES**

|  |  |   |
|--|--|---|
|  <p>Jane Cardilia</p>       |  <p>Pravin Rajendran</p>       |  <p>Ram shwasthika</p>   |
|  <p>SNEHA S N</p>          |  <p>Sthuthi Stazy</p>         |  <p>Kaviya</p>          |
|  <p>Aravind Selvamani</p> |  <p>Nicky chandrasekaran</p> |  <p>Aravind Rajesh</p> |



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|   |  |  |
|---|--|--|
|  <p>Madhumitha Balamurugan</p> |  <p>Divya Raji R</p>           |  <p>Keerthana D</p>           |
|  <p>Harini Natarajan</p>      |  <p>Subashree Renganathan</p> |  <p>Pujaa Ramesh</p>         |
|  <p>sri vaishna</p>          |  <p>Astalakshmi P</p>        |  <p>Harshavimal Aravind</p> |



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|  |  |   |
|--|--|---|
|  <p>Pooja Theenathayalan</p>    |  <p>Bonthala Sreya</p>       |  <p>Pavithra Arumugam</p>          |
|  <p>Preethika Rengabashyam</p> |  <p>Anumithra Saravanan</p> |  <p>Bavatharine Purushothaman</p> |
|  <p>keerthiga lakshmi</p>     |  <p>Rahul Vishwanath</p>   |  <p>prithega m</p>               |











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Participants (93)

Search

 Niranjana Kumar (me)  

 biochemistry bds (Host)  

 vandana vijayakumar  

 Akshaya. Sa  

 Priyanka R  




 Aaron Philip  




 Abinaya U  

 Anumithra Saravanan  




 Anusaya Babu  

 Aravind Rajesh  

 Aravind Selvamani  

 arun prasad  

 Astalakshmi P  

























 badma priya  

























 Bavatharine Purushotha...  



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-  Bharath Chandar  
-  Bhavadharshine Manikan...  
-  Bonthala Sreya  
-  Charu lekha Y  
-  Cyril Mathew Emmanuel  
-  Daisy Mary  
-  Darcus evangelin  
-  Divya Mohan  

-   
-  Subashree Renganathan  
-  Surya gayathri  
-  Sushurutha ananthan  
-  Thanushree Duraisami  
-  Trisha Ravichandran  
-  Vaish Navi  
-  Varun Krishna  



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-  Lakshikhaa Shri Vengata...  
-  Lakshitha Ramesh  
-  Lokesh  
-  Madhu Mitha  
-  Madhumitha Balamurugan  
-  Manimozhi. R  
-  Manoj L  
-  Mary Pon Anusha G  

|  |                      |   |
|--|----------------------|---|
| MP   | Mary Pon Anusha G    |       |
|   | N Navin              |       |
| NR   | Nandhini R           |       |
|   | Narmadha Srinivasan  |       |
|   | Nicky chandrasekaran |       |
|  | NIRUVINDA S          |   |
| N  | Nithyashree.R        |   |
| N  | NOWFIYA FATHIMA      |   |



























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-  NOWFIYA FATHIMA  
-  Pavithra Arumugam  
-  Pooja Theenathayalan  
-  Praveen kumar  
-  Pravin Rajendran  
-  Preethika Rengabashyam  
-  prithega m  
-  Priya Dharshini  





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|    |                       |  |  |
|----|-----------------------|--|--|
| TD | Thanushree Duraisami  |  |  |
| TR | Trisha Ravichandran   |  |  |
| VN | Vaish Navi            |  |  |
| VK | Varun Krishna         |  |  |
| VM | Vignesh Mani KU       |  |  |
| WV | Vishnusri V           |  |  |
| YR | Yuvashree Ravishankar |  |  |
| Z  | Zenitha Paramashivam  |  |  |

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|                       |                                    |
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| <b>PRESENTATION</b>   | <b>LECTURE</b>                     |
| <b>TOPIC</b>          | <b>IRON</b>                        |
| <b>PRESENTER</b>      | <b>DR.VINOTH</b>                   |
| <b>DEPARTMENT</b>     | <b>DEPARTMENT OF BIO CHEMISTRY</b> |
| <b>DATE</b>           | <b>21.04.2020</b>                  |
| <b>TIMING</b>         | <b>9.30 AM TO 10.30 AM</b>         |
| <b>UG PARTICPANTS</b> | <b>FIRST YEAR BDS 2019 - 2020</b>  |



The screenshot shows a Microsoft PowerPoint presentation titled "Iron". The slide content is as follows:

# Iron

- Iron is a mineral
- It exists as Heme, Ferrous, Ferric, ferritin, and with transferrin
- Plays a crucial role in vital biochemical activities
  1. Oxygen storage
  2. Oxygen transport
  3. Electron transfer in ETC complex as FeS clusters
  4. Co factor for lot of enzymes as heme in cytochrome P450, cytochrome C, Catalase and tryptophan pyrrolase
  5. In non-heme form as Fe<sup>++</sup> eg- Aconitase

At the bottom of the slide, it says "April 21, 2020" and "Iron - Dr E Malligaal, Biochemistry".

The presentation interface includes a ribbon with tabs for File, Home, Insert, Design, Transitions, Animations, Slide Show, Review, and View. The left sidebar shows a slide thumbnail titled "IRON" and a table of contents with four slides. The bottom status bar indicates "Slide 2 of 25" and "Iron (2)".

In the bottom right corner, there is a small video window showing a man speaking, with the name "biochemistry bds" below it.



9:48 AM Tue 21 Apr

Leave Meeting 338-841-3098 Password: 12345

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iron new (Compatibility Mode) - Microsoft PowerPoint (Product Activation Failed)

File Home Insert Design Transitions Animations Slide Show Review View

Clipboard Copy Paste Format Painter New Slide Section Slides

Reset Layout Font Paragraph Drawing

Find Replace Select Editing

### Iron in intestinal tract

- Iron absorption can occur at any level of the gastrointestinal tract from **duodenum through DMT 1 (divalent metal transporter)**
- Heme binds with Hemopexin and enters the cell through heme transporter.
- Iron uptake by the intestinal cell is **unidirectional**

April 21, 2020 Iron - Dr E Malliga, Biochemistry 6

Niranjan Kumar biochemistry bds Aravind Selvamani prithega m

biochemistry bds' screen



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**Participants (95)**

Search

|  |                        |  |  |
|--|------------------------|--|--|
|  | Niranjn Kumar (me)     |  |  |
|  | biochemistry... (Host) |  |  |
|  | Nicky chandrasekaran   |  |  |
|  | Pujaa.N.R.             |  |  |
|  | Akshaya. Sa            |  |  |
|  | Esha Rithika           |  |  |
|  | vandana vijayakumar    |  |  |

|  |                     |  |  |
|--|---------------------|--|--|
|  | Aaron Philip        |  |  |
|  | Abinaya U           |  |  |
|  | Aishwarya Saravanan |  |  |
|  | Aishwarya.k         |  |  |
|  | Akash J             |  |  |
|  | Akshitha Madhvaraj  |  |  |
|  | Anusaya Babu        |  |  |
|  | Aravind Rajesh      |  |  |







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|    |                         |  |  |
|----|-------------------------|--|--|
| AS | Aravind Selvamani       |  |  |
|    | arun prasad             |  |  |
| AS | Ashwini Sankar          |  |  |
| AP | Astalakshmi P           |  |  |
| AR | Avanthika radhakrishnan |  |  |
|    | badma priya             |  |  |
|    | Bharani Dharan          |  |  |
| B  | Bharath Chandar         |  |  |



**Participants (95)**

|    |                           |  |  |
|----|---------------------------|--|--|
| b  | Bhavadharshine Manikan... |  |  |
|    | Bhuvanesh G               |  |  |
|    | Bonthala Sreya            |  |  |
| CL | Charu lekha Y             |  |  |
| CM | Cyril Mathew Emmanuel     |  |  |
| DM | Daisy Mary                |  |  |
|    | Darcus evangelin          |  |  |
|    | Deepika A                 |  |  |

DS Deepthishri Senthilkumar  


DM Divya Mohan  

DR Divya Raji R  

D Durga Suresh  

 Gunali G.V.  

HN Harini Natarajan  

H Harini Saravanan  

H Haripriya V  

HA Harshavimal Aravind  

J Jane Cardilia  

JM Jayashree M  

K Kaviya  

KD Keerthana D  

K Keerthana Sudhakar  

k keerthiga lakshmi  

K Kesava Raj  



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| Participants (95) |                            |  |
|-------------------|----------------------------|--|
|                   | Lakshikhaa Shri Vengata... |  |
| LR                | Lakshitha Ramesh           |  |
| L                 | Lokesh                     |  |
| M                 | Madhu Mitha                |  |
| m                 | Madhumitha Balamurugan     |  |
| m                 | Madhumitha Balamurugan     |  |
| MR                | Manimozhi. R               |  |
| MP                | Mary Pon Anusha G          |  |

|    |                      |  |
|----|----------------------|--|
|    | N Navin              |  |
| NR | Nandhini R           |  |
|    | Narmadha Srinivasan  |  |
| NS | NIRUVINDA S          |  |
| NT | Nishitha Taj         |  |
| N  | Nithyashree.R        |  |
| N  | NOWFIYA FATHIMA      |  |
| P  | Pooja Theenathayalan |  |





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PK PRAVEEN KUMAR  

 Pravin Rajendran  

 Preethika Rengabashyam  

 prithega m  


PD Priya Dharshini  

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 Preethika Rengabashyam  

 prithega m  

PD Priya Dharshini  

 Priyanka R  

 Pujaa.N.R.  

 Rahul Vishwanath  



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- R RAM SHWASTHIKA
- R Ramith Samuel
- samyuktha bala
- S Samyvishwanath Vishwa
- SB Sharanya Balaji
- Siddhartha Siva
- SNEHA S N
- ST Solai Thendral ✨

- TD Thanushree Duraisami
- V V.Saranya
- VN Vaish Navi
- W vandana vijayakumar
- VK Varun Krishna
- VM Vignesh mani K U
- YR Yuvashree Ravishankar
- Z Zenitha Paramashivam





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|   |   |
|---|---|
|  Sri Sindhu            |       |
|  sri vaishna           |       |
|  Sthuthi Stazy         |       |
|  Subashree Renganathan |       |
|  Subha Abinethri       |       |
|  Subhashree Dhanaraj  |     |
|  Surya gayathri      |   |
|  Sushurutha          |   |



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# BDS Eclasses-Biochemistry

BDS, Divya, Dr Anuradha, Dr. karpagvel, Mr...

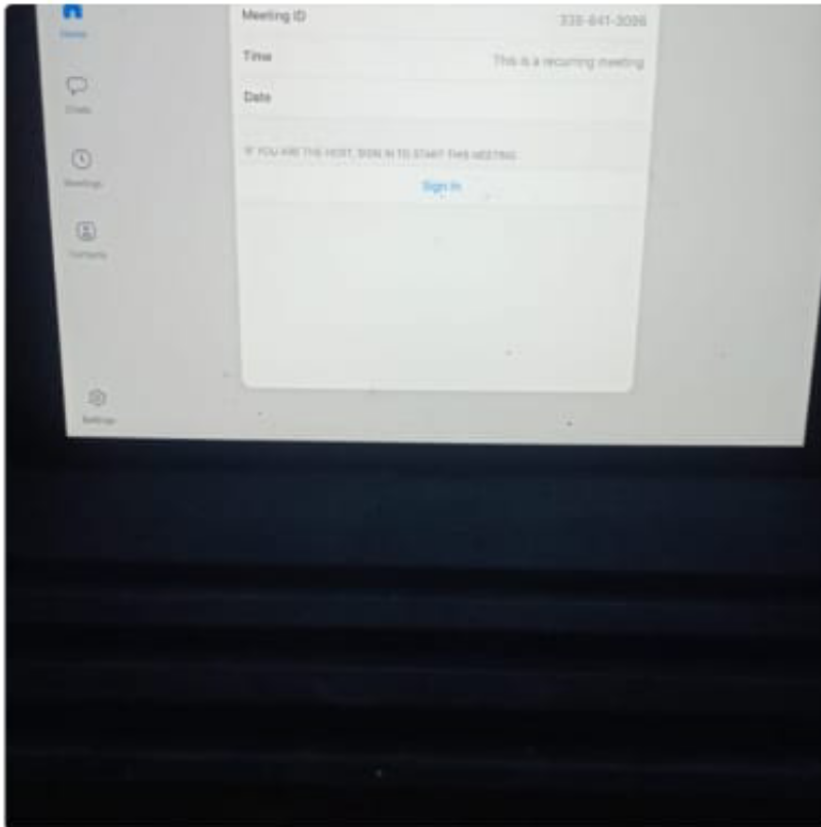


Yes sir

09:31

+91 6382 551 976

~Nikki



You haven't started the meeting sir.

09:35

Sir we are not able to join the meeting.

09:39

TODAY

Good eve 16:38 ✓

Today s assignment topic is to write the biochemical functions of vitamin B1, B2, B3, B6... keep it ready and wen v l correct it wen u return, u l hav marks for it

16:39 ✓