



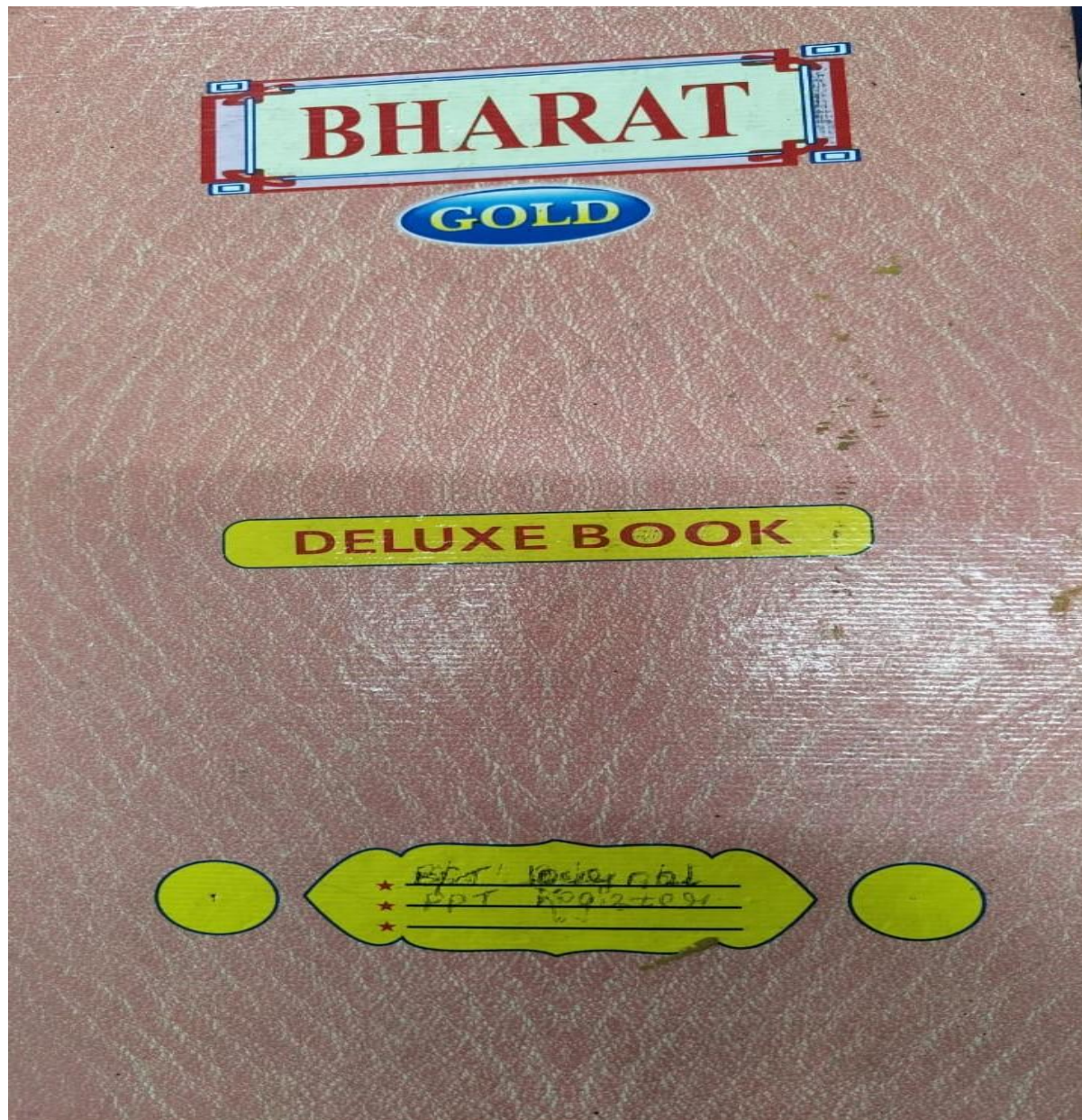
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2.5.4 INSTITUTIONAL DATA PRESCRIBED FORMAT




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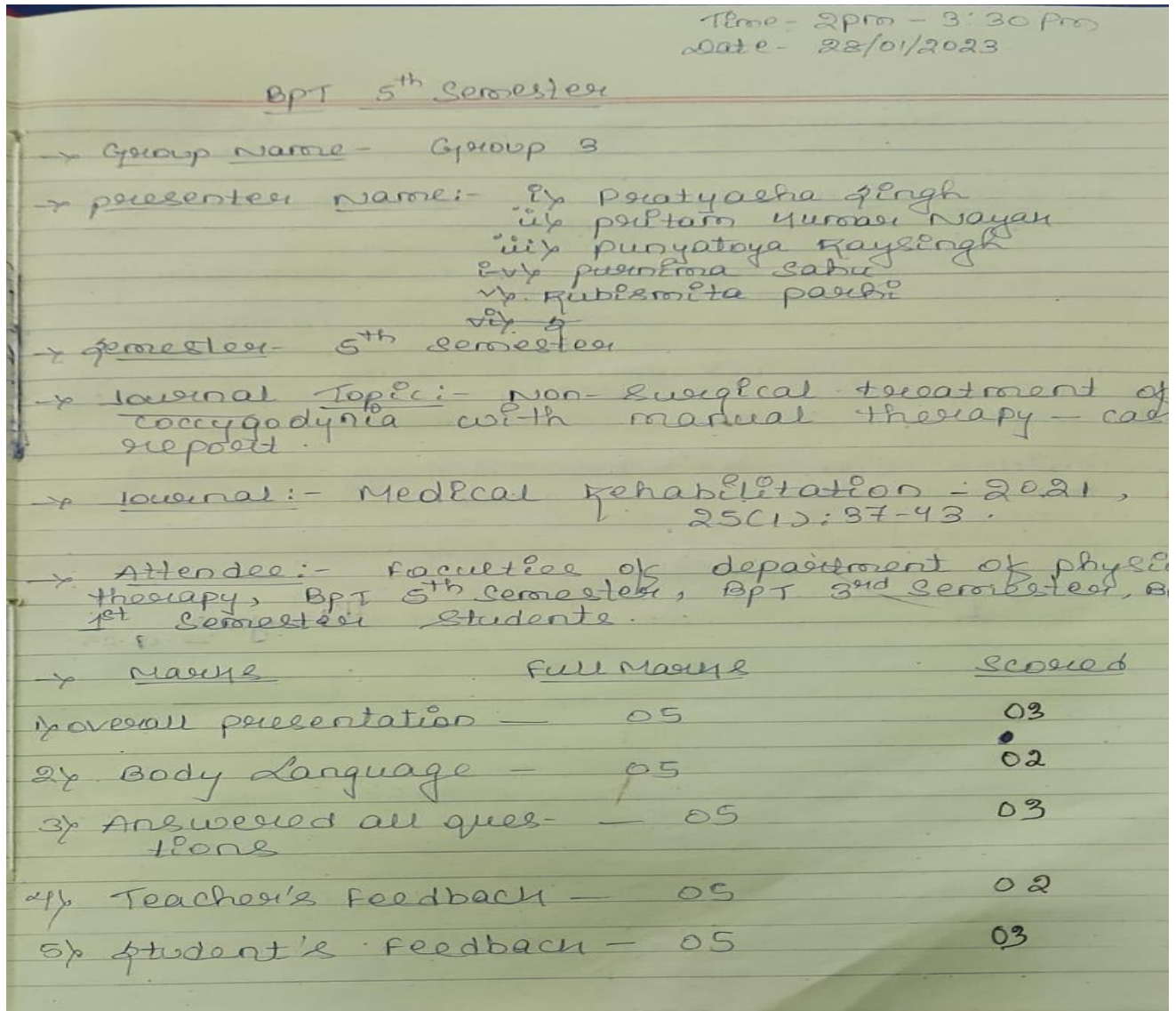
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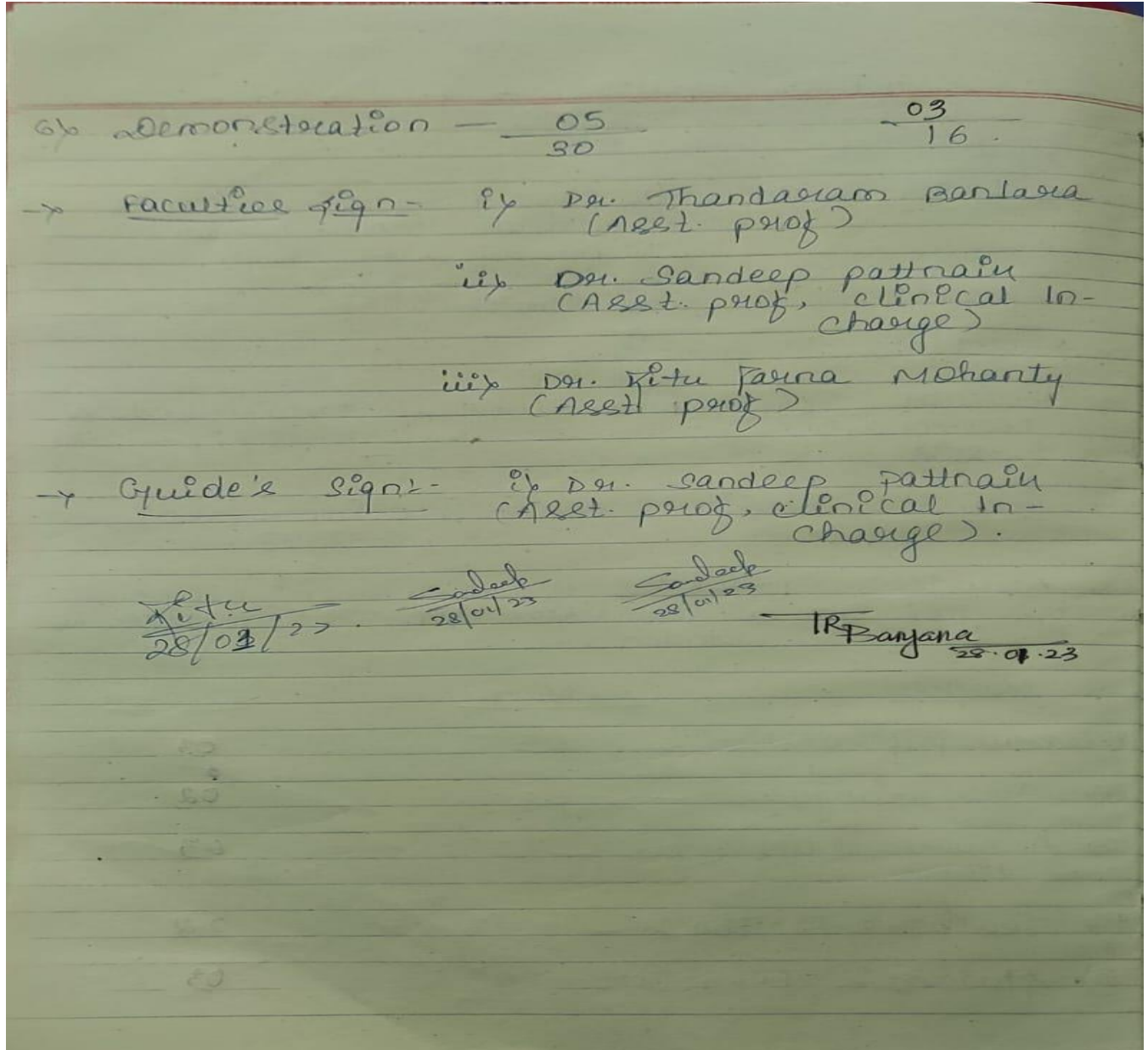


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Time - 2:00pm - 3:00pm
Date - 06/05/23.

BPT 2th semester

→ Group Name - Group B.

→ presenter name -
1) Vidyan Tyoti Sahoo
2) Deepak Kumar Dalei
3) Lipshamayee Priyadarshini Sethi
4) Manas Kantan Mahanta
5) Kayesh Kumar Sahoo.

→ Journal Topic - Effectiveness of the MBT versus osteopathic manipulation in the treatment of sacroiliac joint dysfunction in Athletes.

→ Semester - BPT 2th semester.

→ Journal Name - International Journal of Environmental research and public health.

→ Attendee - Faculty of department of physiotherapy, students of BPT 2th semester.

<u>Names</u>	<u>Full Marks</u>	<u>Scored</u>
1) overall presentation	05	03
2) Body Language	05	03
3) Answered all questions	05	03
4) Teacher's feedback	05	03
5) Student's "	05	04
6) Demonstration	05	03
	<u>30</u>	<u>19</u>


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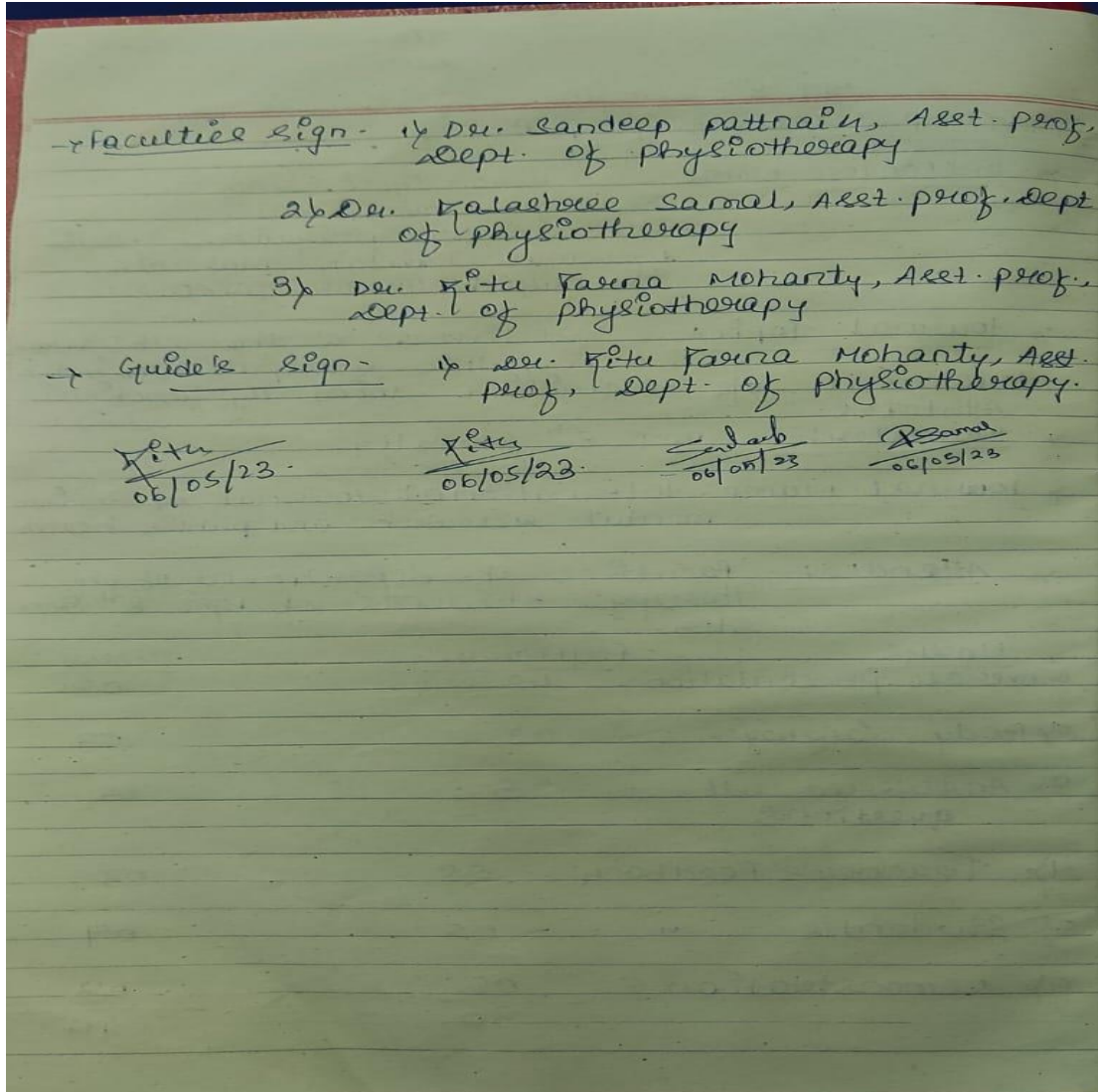


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CIRCULAR

This is to inform all the staff of ASLP and students of BASLP of Institute of Health Sciences, it is our pleasure to invite you to the Journal club.

Date: 02-03-2023 at 3.30pm (Thursday)

Presented by: Ms. Baishali Mahanta, BASLP (3rd yr).

Topic: Relationship Research Between Auditory Neuropathy Spectrum Disorder and Exchange Transfusion in Neonates with Severe Hyperbilirubinemia

Authors: Jie Xu, Meiling Weng, Nianqiong Li, Xiu'e Wu, Li Gao, Hongbing Yao, ShupingSu

Taken from: International Journal of Pediatric Otorhinolaryngology

Published online: 6th May, 2019

ABSTRACT

Objective: To explore the effects of exchange transfusion on auditory neuropathy spectrum disorder (ANSD) in neonates with severe hyperbilirubinemia (SH).

Aim: to investigate epidemiological characteristics, related influencing factors and clinical outcomes of ANSD in SH neonates and further analyse how to reduce the incidence of ANSD.

Methods: The clinical data of 2216 SH neonates who met the standard of exchange transfusion and 732 non-severe-hyperbilirubinemia (NSH) neonates in the same period who did not require exchange transfusion in the neonatology department of Children's Hospital of Chongqing Medical University between January 2010 and December 2015 were retrospectively analysed. In addition, the SH neonates were further divided into the exchange transfusion group and phototherapy group. Hearing screening was conducted on all neonates using transiently evoked otoacoustic emission (TEOAE) and auto auditory brainstem response (AABR), and neonates who failed the above screening were performed diagnostic hearing test. And then neonates diagnosed with hearing disorder were followed up for 2-5 years.

Results: The pass rates of hearing screening were 80.58%, 79.71% and 87.84% in the phototherapy group, exchange transfusion group and NSH group respectively, with a significant difference ($P < 0.05$). Hearing loss was diagnosed in 10.15%, 12.39% and 8.54% of neonates in the phototherapy group, exchange transfusion group and NSH group. After follow-up, ultimate incidence rates of ANSD were 11.96%, 11.57% and 2.4% respectively in the 3 groups, with a significant difference ($P < 0.05$).

Conclusions: SH is one of risk factors for ANSD. SH neonates have a lower incidence of ANSD in the exchange transfusion group than in the phototherapy group. Neonates who meet the standards of exchange transfusion adopt this therapy in early stage, which can quickly decrease bilirubin level and ultimately reduce incidence of ANSD.

Guide: Mr. Raj Shekhar

JC Incharge: Mr. Vivek Kumar

Faculty Signature:


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ABR: It was administered using an auditory evoked potential analyzer (Ec-plise 25, Interacoustics, Denmark).

Children were tested after falling asleep in the soundproof room after being cleaned up the ear canal, with short – term stimulation.

With recording electrode of AABR placed in the middle of the forehead and reference electrode placed in the ear mastoid, the brain wave generated by the brainstem for the sound stimulation was recorded after being given 3 times of short – sound stimulation.

The screening result was automatically determined by the instrument. If “Pass” was displayed, the hearing screening was passed.



ABR : It was administered using auditory evoked potential analyzer (EP25, Interacoustics, Denmark) in the soundproof room.

The presented rate was 21.1/s. The number of superpositions was 1024 times, repeating 2 to 4 times per ear. Intensity of the stimulus presentation was successively decreased or incremented by 10dBnHL from 70dBnHL.

The minimum sound intensity that could extract the reproducible recording wave V was the reaction threshold of ABR wave V and threshold curve of ABR wave V repeated three times. The response threshold of ABR wave V 30dBnHL was used as an indicator of normal hearing.



Statistical Analysis

Audiological diagnostic criteria for ANSD in infants with ANSD:

- 1) Children with ANSD have normal TEOAE and DPOAE.
- 2) ABR V waves are missing.
- 3) Performance of transient ANSD requires a comprehensive assessment.

All analyses were conducted by using SPSS19.0.

The chi-square test was used for intergroup comparison of incidence.

The Fisher exact test was used to analyze sample with the number < 40.

Pearson correlation analysis was used to analyze epidemiological factors.

Throughout the analyses, differences with a p-value of 0.05 were considered to be statistically significant.


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Institute of Health Sciences
Chandaka, Bhubaneswar

Journal Club Marks

Date → 02.03.23
Topic → Relationship Research between Auditory Neuropathy Spectrum Disorders & exchange Transfusion in neonates with severe Bilirubinemia
Presenters → Baishali Mahanta
Guide → Mr. Raj Sekhar
Teacher → Mr. Raj Sekhar

	Max. Marks	
Topic Selection	10	8
Content of Topic	10	8
Knowledge of Topic	10	7
Presentation Skills	10	7
Discussion	10	5
Total	50	35

Average Marks → 7

Teacher's Signature: *Raj Sekhar*
Journal Club Incharge: *Vivek Kumar*


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