Clinical Research

Iron Deficiency Anaemia

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Abstract

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Iron deficiency is by far the commonest cause of anaemia specially in areas where hookworm infestation is endemic. About 20% of women, 50% of pregnant women, and 3% of men are iron deficient. Inadequate diet is also the main cause of this disease. It is due to mal-absorption of Iron from intestinal mucosa. Homoeopathic medicines like Calc. carb., Ferr. phos, Gelsimium, Kali carb., Natrum mur., Pulsatilla and Phosphorus have improved absorption of iron taken as supplement or from the food rich in iron. The study was conducted at Regional Research Institute for Homoeopathy, New Delhi for five years, in which 223 cases were studied.

Introduction

Iron Deficiency Anaemia (also called IDA) is a form of hypochromic microcytic anaemia due to dietary lack of iron or iron loss as a result of chronic bleeding.

Causes

. Low intake:

Iron is obtained from foods in our diet, however; only 1 mg of iron is absorbed for every 10 to 20 mg of iron ingested. A person unable to have a balanced iron-rich diet may suffer from some degree of iron-deficiency anemia.

Increased demand:

An increased iron red blood cell production is required when the body is going through changes such as growth spurts in children and adolescents, or during pregnancy and lactation.

* Mal-absorption:

Malabsorption of iron is common after some forms of gastrointestinal surgeries. Most of the iron taken in by foods is absorbed in the upper small intestine. Any abnormalities in the gastrointestinal (GI) tract could alter iron absorption and result in iron-deficiency anemia.

Blood loss:

Loss of blood can cause a decrease of iron and result in iron-deficiency anemia. Sources of blood loss may include GI bleeding, menstrual bleeding, or injury.

Symptoms

- Abnormal paleness or lack of color of the skin
- Irritability
- ◆ Lack of energy or tiring easily (fatigue)
- Increased heart rate (tachycardia)
- ♦ Sore or swollen tongue
- ◆ Enlarged spleen
- Desire to eat peculiar substances such as dirt or ice (a condition called pica)
- ◆ Dizziness, weakness,
- Shortness of breath,
- ◆ Brittle nails,
- Decreased appetite (especially in children),
- Headache frontal.

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Diagnostic procedures

- Red blood cell measures of hemocrit and hemoglobin;
- 2. size of red blood cells,
- 3. serum iron level, and
- 4. Iron binding capacity in the blood.

Treatment

♦ Iron-rich diet

Eating a diet with iron-rich foods can help treat iron-deficiency anemia. Good sources of iron include the following:

- Meats beef, pork, lamb, liver, and other organ meats
- Poultry chicken, duck, turkey, liver (especially dark meat)
- Fish-shellfish, including clams, mussels, and oysters, sardines, anchovies
- Leafy greens of the cabbage family, such as broccoli, kale, turnip greens, and collards
- Legumes, such as lima beans and green peas; dry beans and peas, such as pinto beans, black-eyed peas, and canned baked beans
- Yeast-leavened whole-wheat bread and rolls
- Iron-enriched white bread, pasta, rice, and cereals

♦ Iron supplements

Iron supplements can be taken over several months to increase iron levels in the blood. Iron supplements can cause irritation of the stomach and discoloration of bowel movements. They should be taken on an empty stomach, or with orange juice, to increase absorption.

Homoeopathic medicines

These are prescribed according to symptomatic indications of each case based upon subjective and objective parameters.

Objective of study

To clinically evaluate the efficacy of Homoeopathic medicines in order to

- ◆ Identify their reliable indication
- ♦ Identify their most useful potencies
- ◆ Determine their repetition schedule.
- ◆ Deduce their reportorial indices
- ♦ Set-out their relationship with Other drugs as:
 - * Follow well
 - *Complementary
 - * Cognates
 - * Intercurrent
 - * Antidote
 - * Incompatible

Materials and Methods

Cases were selected from O.P.D., from all age groups and both sexes. During history taking, cases were identified as per diagnostic criteria of Iron deficiency Anaemia from among the general out door patients and then subjected to Laboratory investigations essentially required to establish the diagnosis.

Inclusion criteria

Cases with complete symptoms and signs in order to fulfil the Dignostic criteria e.g. Haemoglobin below 10 gm %, microcytosis, hypocromia and elongated hypocromic red cells etc. were included for study.

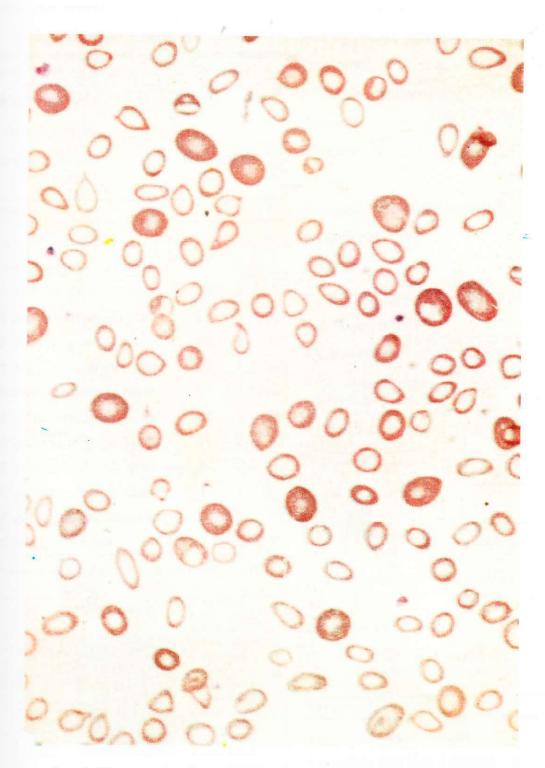
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e.g. tosis, cells



 $Iron\,defeiciency\,Anaemia\text{-}Slide\,showing\,hypochromic\,microcytic\,RBC's$

Exclusion criteria

Cases not coming under the perview of Homoeopathic treatment / requiring hospitalization surgical intervention.

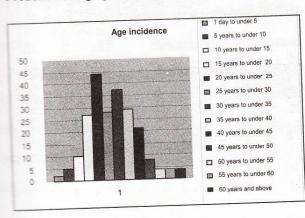
Observations

1. Age incidence

Range: Minimum	2 1/2 years
Maximum	80 years

Groups	T	M	F		
1 day to under 5 years	2	1	1		
5 years to under 10 years	5	2	3		
10 years to under 15 years	10	3	7		
15 years to under 20 years	27	5	22		
20 years to under 25 years	44	2	42		
25 years to under 30 years	28	1	27		
30 years to under 35 years	37	2	35		
35 years to under 40 years	29	4	25		
40 years to under 45 years	21	2	19		
45 years to under 50 years	8	0	8		
50 years to under 55 years	4	1	3		
55 years to under 60 years	4	2	2		
60 years and above	4	3	1		

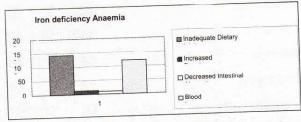
Predominant age group: 20 years to under 25 years



2. Clinical types

Iron deficiency Anemia due to

Inadequate Dietary Intake	143	22 1	21
Increased Requirement:	Т	М	F
* Growth	6	1	5
* Adolescence	4	1	3
* Pregnancy	4	0	4
Decreased Intestinal Absorp	otion:		
* Chronic diarrhea	9	2	7
Blood loss:			
* Excessive Menstrual Blee	ding 82	0	82
* Peptic ulcer	3	2	1
* Hemorrhoids	13	3	10
Parasitic infestation with Hookworm	20	1	19
* Regular blood loss	3	0	3



3. Mode of onset Gr

Gradual - 222 cases Sudden - 1 case

4. Duration of Disease

Range: Minimum - 1 month Maximum - 31 years

Groups	T	М	F
1 day to less than 1 month	0	0	0
1 month to less than 3 months	3	1	2

Groups	T	M		F	6 Laboratory findings (Bloo	d)		
3 months to less than 2 years	85	8		77	Hb %			
	82	11			-less than 6 gm %9	4	5	
2 years to under 5 years	39	4			-6 gm % to 9 gm %	125	14	111
5 years to under 10 years	11	1			-9 gm % to 11 gm %	89	10	79
10 years to less than 20 years	2	2		0	Decreased R.B.C Count	127	12	115
20 years to under 30 years	1	1		0	(less than 3.8./cmm)			
30 years and above				9	Increased Leucocyte count	26	4	22
5. Clinico-pathological finding	igs				(more than 10,000/cum)			
Symptoms					Increases neutrophils	35	9	26
Headache	11	9	1	02	(more than 70%)		Jan I	00
Weakness	211	26	1	85	Increased Eosinophils	48	8	32
Fatigue	204	26		78	(more than 4 %)	20	4	16
Lassitude	170	22		48	Increased lymphocyte (more than 40 %)	20	4	10
Palpitation	135	11	1	124	treate in the second of			
Subtle behavioral changes	6	0		6	Increased ESR (more than 20 mm/hour)	147	18	129
Pica:-Geophagia	15	0	1	15	Serum Iron decreased	17	1	16
Dysphagia	30	5)	25	Total iron binding capacity	17	1	16
Dyspnoea	62	9)	53	decreased			
Anorexia	11:	3 1	15	98	MCV decreased	95	8	87
Nausea	54	8	3	46	MCH decreased	95	8	87
Eructation	72	8	3	64	MCHC decreased	95	8	87
Constipation	68		11	57	PCV decreased	95	8	97
Menorrhagia	66)	0	66	Cell Morphology:			
Signs					Normocytic hypochromic	12	2	10
Pallor	223	28	3	195	Microcytic hypochromic	195	2	6 169
Tachycardia	57	7	6	51	Dimorphic	16	1	15
Haemic flow murmur	1		0	1	Dillioipino			
Dry brittle and ridged Nails	34	1	2	32				
Kolinochia	0		0	0				
Angularstomatitis	3	5	3	32				
Glossitis	1	2	2	10	28			

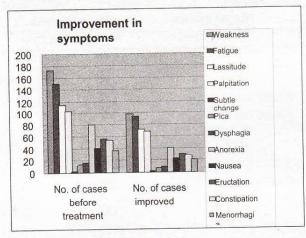
7. Drug Therapy

30	Name of drug	me of drug Potency Doses		No. of cases Prescribed	No. of cases found effective
M	Abroma augsta	30	TDS, QID	2	1
Acid nitric 6 QID 1 1 30 QID 1 1 Aegle marr. Q tds 1 1 Alumina 30 tds 2 1 200, IM Two doses 1 1 Arsenic alb. 6 qid 1 1 30 qid 8 4 200 tds, 2 doses 3 2 0/3 bds 1 1 Atista indica 30 qid 1 1 Bryonia alb. 200 tds 1 1 Bryonia alb. 200 tds 1 1 Ceanothus 6 tds 1 1 Ceanothus 6 tds 1 1 Calc carb 30 qid 13 6 200 Two doses 4 4 IM Two doses 5 4 China IM Two doses 5 4 IM Two doses 5 4	Acid benzoic	30	QID	1	1
30		IM	Two doses	1	1
Aegle marr. Q tds 1 1 Alumina 30 tds 2 1 200, IM Two doses 1 1 Arsenic alb. 6 qid 1 1 30 qid 8 4 200 tds, 2 doses 3 2 0/3 bds 1 1 Atista indica 30 qid 1 1 Bryonia alb. 200 tds 1 1 Bryonia alb. 200 tds 1 1 Ceanothus 6 tds 1 1 Ceanothus 6 tds 1 1 Calc carb 30 qid 13 6 200 Two doses 4 4 IM Two doses 1 1 China IM Two doses 5 4 IM Two doses 5 4 IM Two doses 5 4 IM Two doses 5 4 <tr< td=""><td>Acid nitric</td><td>6</td><td>QID</td><td>1</td><td>1</td></tr<>	Acid nitric	6	QID	1	1
Alumina 30 tds 2 1 200, IM Two doses 1 Arsenic alb. 6 qid 1 1 30 qid 8 4 200 tds, 2 doses 3 2 0/3 bds 1 1 Atista indica 30 qid 1 1 Bryonia alb. 200 tds 1 1 Ceanothus 6 tds 1 1 Calc carb 30 qid 13 6 200 Two doses 4 4 IM Two doses 2 2 Calc. fluor. 30 tds 1 1 Calc. phos. 30 qid 1 1 China 6 qid 3 2 200 Two doses 5 4 IM Two doses 5 1 China 6 qid 3 2 200 Two doses 5 4 IM Two doses 5 4 IM Two doses 5 4 IM Two doses 5 5 IM Two doses 5 4 IM Two doses 5 4 IM Two doses 5 5 IM Two doses 5 4 IM Two doses 1 1 1 Embelia ribes 30 qid 3 3 3		30	QID	1	1
200, IM	Aegle marr.	Q	tids	1	1
Arsenic alb.	Alumina	30	tds	2	1
30		200, IM	Two doses	1	1
200	Arsenic alb.	6	qid	1	1
Atista indica 30 qid 1 1 1		30	gid	8	4
Atista indica 30 qid 1 1 1 Bryonia alb. 200 tds 1 1 1 Ceanothus 6 tds 1 1 1 Calc carb 30 qid 13 6 200 Two doses 4 4 IM Two doses 2 2 Calc. fluor. 30 tds 1 1 1 Calc. phos. 30 qid 1 1 1 China 6 qid 3 22 13 200 Two doses 5 4 IM Two doses 5 4 IM Two doses 1 1 1 China 6 qid 3 22 13 200 Two doses 5 4 IM Two doses 1 1 1 Embelia ribes 30 qid 3 3 3		200	tds, 2 doses	3	2
Bryonia alb. 200 tds 1 1 IM Two doses 1 1 Ceanothus 6 tds 1 1 Calc carb 30 qid 13 6 200 Two doses 4 4 IM Two doses 2 2 Calc. fluor. 30 qid 1 1 Calc. phos. 30 qid 1 1 China 6 qid 3 2 30 qid 3 2 30 qid 22 13 200 Two doses 5 4 IM Two doses 1 1 Embelia ribes 30 qid 3 3		0/3	bds	1	1
IM Two doses 1 1 Ceanothus 6 tds 1 1 Calc carb 30 qid 13 6 200 Two doses 4 4 IM Two doses 2 2 Calc. fluor. 30 tds 1 1 Calc. phos. 30 qid 1 1 200 bds 1 1 1 China 6 qid 3 2 30 qid 22 13 200 Two doses 5 4 IM Two doses 3 2 Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3	Atista indica	30	qid	1	1
Ceanothus 6 tds 1 1 Calc carb 30 qid 13 6 200 Two doses 4 4 IM Two doses 2 2 Calc. fluor. 30 tds 1 1 Calc. phos. 30 qid 1 1 200 bds 1 1 1 China 6 qid 3 2 13 200 Two doses 5 4 1 IM Two doses 1 1 1 Embelia ribes 30 qid 3 3 3	Bryonia alb.	200	tds	1	1
Calc carb 30 qid 13 6 200 Two doses 4 4 IM Two doses 2 2 Calc. fluor. 30 tds 1 1 Calc. phos. 30 qid 1 1 200 bds 1 1 1 China 6 qid 3 2 30 qid 22 13 200 Two doses 5 4 IM Two doses 1 1 Embelia ribes 30 qid 3 3		IM	Two doses	1	1
200	Ceanothus	6	tds	1	1
IM Two doses 2 2 Calc. fluor. 30 tds 1 1 Calc. phos. 30 qid 1 1 200 bds 1 1 China 6 qid 3 2 30 qid 22 13 200 Two doses 5 4 IM Two doses 3 2 Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3	Calc carb	30	qid	13	6
Calc. fluor. 30 tds 1 1 Calc. phos. 30 qid 1 1 200 bds 1 1 China 6 qid 3 2 30 qid 22 13 200 Two doses 5 4 IM Two doses 3 2 Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3		200	Two doses	4	4
Calc. phos. 30 qid 1 1 200 bds 1 1 China 6 qid 3 2 30 qid 22 13 200 Two doses 5 4 IM Two doses 3 2 Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3		IM	Two doses	2	2
200 bds 1 1 China 6 qid 3 2 30 qid 22 13 200 Two doses 5 4 IM Two doses 3 2 Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3	Calc. fluor.	30	tds	1	1
China 6 qid 3 2 30 qid 22 13 200 Two doses 5 4 IM Two doses 3 2 Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3	Calc. phos.	30	qid	1	1
30 qid 22 13 200 Two doses 5 4 IM Two doses 3 2 Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3		200	bds	1	1
200 Two doses 5 4 IM Two doses 3 2 Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3	China		-	3	
IM Two doses 3 2 Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3	-ti				
Cina IM Two doses 1 1 Embelia ribes 30 qid 3 3					
Embeliaribes 30 qid 3 3		IM	Two doses	3	2
	Cina	IM	Two doses	1	1
Ferr. met. 30 gid 13 6	Embelia ribes	30	qid	3	3
	Ferr. met.	30	qid	13	6

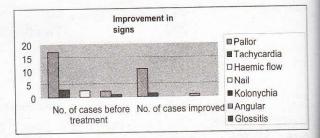
Name of drug	Potency	Doses	No. of cases Prescribed	No. of cases found effective
A contract of the contract of	2V	qid	23	12
Ferr. phos	3X		4	1
Gelsemium	30	qid	1	1
	200	Two doses	1	1
	IM	Two doses		
	00	tds	1	1
Iodium	30	Two doses	1	1
	200	Two doses	1	1
	IM	1 000 00000		3
Kali carb.	30	qid	5	2
Nail Carp.	200	Two doses	2	2
	IM	Two doses	2	2
		254	1	1
Kali bich.	30	qid	1	1
	200	Two doses		
	30	qid	1	1
Lachesis	IM	Two doses	1	1
	IIVI		3	2
Lycopodium	30	qid	1	1
2,000	IM	Two doses		
	00	. tds	2	1
Merc sol	30			3
	IM	Two doses	3	3
		-14	41	27
Natrum mur.	30	qid	10	7
	200	tds	12	10
	IM	Two doses		0
Tr. Constant	30	qid	3	2
Nux vomica	200	Two doses	1	1
	0/1	bds	2	2
	0/1		1	1
Nyctanthes	6	qid	BO	
	20	gid	21	10
Pulsatilla	30	tds, 2 doses	3	3
	200	Two doses	3	3
	IM	1 440 00000	10	29
Phosphorus	30	qid	46	11
Thoophordo	200	tds, 2 doses	13	14
		Two doses	15	
	IM	1110	2	1

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Name of drug	Potency		0	eses		of cases escribed	No. of cases found effective
Sepia	30		0	*		4	2
	200			OS.		2	1
Sulphur	30		-	5		11	9
	200			wo dos	25	5	5
	0/1		5	CS .		8	8
	0/2		b	ČS.		5	5
	0/3		b			5	5
	IM		7	WC DOS	es	4	3
8. Basis of Pres	cription	Т	7407	F	Observatio anily):	ons (Made fro	m follow up cases
Causation		4		4	TIEL Respon	tise to drug th	nerapy
Presenting Comp	laint	115	13	102	a) Sympton		
Repertorial analy	sis	76	12	54			No of some
Specific drugs		28	3	25			Mes No. of cases
9. Duration of to	reatment:				Westers	172	98
Range:- Minimur Maximui	m - 7 days m - 1 1/2 yea	r	,		Falore	151	94
Groups					Lessing	115	72
					Facilities	103	69
1 day to 1 month		69	14	55	5.000		2
1 month to 3 mon	ths	69	8	611	Desge	INDIES Z	2
3 month to 6 mon	ths	60	3	57			
6 month to 9 mon	ths	18	3	15	700	13	7
9 months to 1 year	ar	2	_	2	Dysonega	15	9
1 year to 1 ½ ye	ar	3	-	3	Accrete	80	41
10. Improvemen	t indices:				Nausee	41	23
+ Improved		133	15	117	Enuclation	55	30
* Marked		31	1	30			
* Moderate	е	60	8	52	Consideration	54	28
* Mild		42	7	35	Wenorthaga	37	20
 Not improved 		39	6	33			
+ Not reported		51	6	45			

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Nail dry/brittle/ridged	23	3
Kolonychia	2	0
Angularstomatitis	22	8
Glossitis	7	3



b) Signs

Menorrhagia	37	20
Pallor	172	104
Tachycardia	27	12
Haemic flow murmur	1	1

C) Hb %

Hb % less than 6 gm %	9	7
6 gm % to 9 gm %	116	78
9 am % to 11 am %	75	98

d) Medicines causing Increase in Hb%

Name of Medicine		ne of Medicine No. of cases with			ation of application
	Increase upto 1 gm	Increase upto 2 gms	Increase upto 3 gms.	Increase of M upto/more than 4 gms.	edicine in months
Abroma augusta	One	KOTE ESTRA			2
Acid benzoic		One			2 1/2
Aegle marr.		One			2 ½
Arsenic alb.	One	One			1 ½ to 2
Bryonia		One			2
Ceanothus			One		2 1/2
Calc. carb.		One		Two	2
Calc. fluor.	One				2
Calc. phos.			One		1 ½
China	Three	Two	One		1 ½ to 3
Embelia ribes.	Two	One			1 ½ to 3
Ferr. met.		One	32		1 ½ to 2

					Vol. 20, 110, 0 (200)
Name of Medicir	ne Increase upto 1 gm	No. of ca Increase upto 2 gms	ses with Increase upto 3 gms.	Increase upto/more than 4 gms	
Ferr. phos.	Two	Five		Two	2 to5
Gelsimium				One	1 ½
lodium	One				2
Kali carb.		Two		One	2 1/2
Kali bich.		One			2 1/2
Lachesis	One				2
Lycopodium		One	One		1 ½ to 2
Merc. sol.		Two			1 ½ to 2
Natrum mur.	Eight	Six		Three	2 to5
Nux vomica		Two			1 ½ to 3
Pulsatilla		Five	One	One	1 ½ to 3
Phosphorus	Five	Eight	One	Eight	2-3 1/2.
Saraca indica		One			2
Sepia	One	Two			2-3 1/2
Sulphur	One	Four			1 ½ - 3

Above table shows that:-

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- * There was increase of Hb % upto 1 gm % by Abroma augsta, Arsenicalb. Calc fuor. China ,Embelia ribes. ,Ferr. phos. Jodium Lacress ,Natrum mur. ,Phosphorus Sepia and Suprum
- * There was increase of Hb % upto 2 gm % by Acid benzoic, Aegle marr., Arsenic Alb., Bryonia, Calc. carb., China, Embelia nos., Ferr. phos., Kali carb., Kali b ch., Lycoodium, Merc. sol., Natrum mur., Nux vomica, Pusalia, Phosphorus, Saraca indica. Sepia and Sulphur.
- * There was increase of Hb % upto 3 Gm % by Ceanothus ,Calc. phos. ,China Lycopodum Pulsatilla and Phosphorus

 There was increase of Hb % upto/ More than 4 gm % by Calc. carb., Ferr. phos., Gelsimium, Kali carb., Natrum mur., Pulsatilla and Phosphorus.

Discussion

- Out of 223 cases registered for study, 172 cases reported regularly.
- Most of the cases were between the age group of 15 years to 40 years.
- Females were found to be suffering more from Iron deficiency Anemia.
- * Lab. Investigations of blood (Hb%, TLC, DLC, ESR, RBC, Peripheral smear, MCV, MCH, MCHC, PCV). Stool and urine examination were done in all cases.

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- 223 cases, 143 cases reported * Out of inadequate dietary intake, 82 cases reported excessive menstrual blood loss.
- * 195 cases were of Microcytic hypochromic, 12 cases normocytic hypochromic, and 16 cases Diamorphic Anaemia.
- Intensity of Iron deficiency was as under:
 - o mild (Hb between 9 gm % to 11 gm %) in 89 cases,
 - o moderate (Hb% between 6gm% to 9gm %) in 125 cases and

- o marked i.e. (Hb % less than 6 gm %) in 09 cases
- * Remedy selection: on the basis of presenting complaints (115 cases), causation (4 cases), Reportorial totality (76 cases). Specific medicines in 28 cases.
- * Improvement indices:-Out of 172 cases 60 have shown marked improvement, 42 moderate improvement & 31 mild improvement; 39 cases are not improved.
- * Efficacious medicines & potencies:- The medicines found more efficacious in relieving signs and symptoms of Iron deficiency Anaemia and also increasing the HB % are as follows:-

Potency used	Frequency	No. of cases prescribed	No. of cases relieved	Increase of Hb% observed
20	aid	13	6	Three cases (2-4 gm%)
30	200	Two doses Two doses	4 2	4 2
6	qid	3	2	Six cases (1- 3 gm%)
30 200	qid Two doses Two doses	22 5 3	13 4 2	
IIVI 3X	qid	23	12	Nine cases (1-4 gm%)
30	qid	5	3	Three cases (2-4 gm%)
30	qid	41	27	Seventeen cases (1-4 gm%)
200	tds Two doses	10 12	7 10	02220
30	qid	21	10	Seven case (2-4 gm%)
200	tds, 2 dose	s 3	3	
	30 6 30 200 IM 3X 30 30 200 IM 30	Potency used Prequency 30 qid 200 IM 6 qid 30 qid Two doses Two doses Two doses qid 30 qid 30 qid 30 qid 30 qid 30 qid 4d qid 4d qid 4d qid	30 qid 13 13 200 Two doses Two doses Two doses Two doses 5 10 10 10 10 10 10 10	Potency used Frequency prescribed No. of closed prescribed relieved 30 qid 13 6 200 Two doses 4 Two doses 2 4 30 qid 22 13 200 Two doses 5 4 3X qid 23 12 30 qid 5 3 30 qid 41 27 200 tds 10 7 IM Two doses 12 10 30 qid 21 10 30 qid 21 10

Name of medicine	Potency used	Frequency	No. of cases prescribed	No. of cases relieved	Increase of Hb% observed
	IM	Two doses	3	3	
Phosphorus	30	qid	46	29	Twenty two cases (1-4 gm%)
	200	tds, 2 doses	13	11	
	IM	Two doses	15	14	

Conclusion

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Homoeopathic medicines like Calc. Card.
Ferr. phos, Gelsimium, Kali card.
mur., Pulsatilla and Phosphorus as such absorption and thereby he ped as such a supplement or from the following in iron.

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