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First Neonatology Intensive Care Unit in Eskişehir

Eskişehir'de ilk Yenidoğan Yoğun Bakım Ünitesi yapılanması

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* Neonatology Units admitted the infants, after birth, so reduced the problems, reduced the preterm birth.

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If you established a new unit, the result about this fact be indicated the function, by mortality ana morbidity condition.

First not as a referred one, as Neonatology Intensive Care Unit, as nearly 11,000 live births a year in Eskişehir, at 1982. There main function, hold the load, maternity hospital. So, an example for Neonatology concept, education and teaching, as lecturer on certification programs, on neonatal resuscitation and preterm care and serve.

s routinely noticed in a city, the cultural reaction accrued, not to accepted as refereed unit and not replace themselves. The point only intensive care and problem infants, as their mortality ratio, returns to nearly none, if send so, not any death preterm infant.

This fact, must care the pregnancy, and better to send as fetus, then newborn infant. So, Obstetrics and Gynecology mut be at close cooperation.

By forming an expert opinion council, by Perinatology, Neonatology, Genetics and Metabolic Diseases Departments, Ethics Department and Forensic Medicine, as combination, for all Monday noon be as routine meeting. For advice, even from outer center problems.

AIM: If you established a new unit, the results must be in evaluation, for discussion and for further expectation. It is not for care of newborn infants in Eskişehir, aim for education, be an example and being a referred unit for critical life condition infants.

Grounding Aspects: These numbers confirm the 1982-1988 results, as the first establishing years, as Anadolu University regulation, now at Osmangazi University, before active in City Maternity Hospital **Introduction**: If you move to a new place, like making migration, there is an accepting problem. "*Why do you come, we can manage our patients*", thus it is correct, we come to solve your problem, in order to referred newborns, that, you will send to us, not to Ankara, the critically near life patients especially preterm infant. <u>General Considerations</u>: At Maternity Hospital the mortality mostly at preterm infants, thus if they referred, then the mortality ratio will drop. Exchange transfusion, not send to Ankara, directly at that center, thus, not required extra money, as governmental fact, not paid to the physicians too. **Proceeding**: As noted in the Article, first rooms are heated over 32°C, humidity above 70%, like a Turkish Bath/Hamam, by external automatic electric radiators, and boiling water. After taken experienced technical equipment, the education and using of it by expert own team.

Notions: Maternity Hospital bought several incubators, thus, they closed all of them, because not satisfactory nurse for take care. This forced us more advanced and progress, day by day.

Conclusion: The small unit, by the graduated physicians knowing Neonatology, also be a fact for care and serve be leading this unit smaller preterm infants must be in care, below 1500grams. A kind of migration, does it perform their job, after such years passed? This is your assessment, after evaluate the results.

Key Words: The result and concept of the first Neonatal Intensive Care

Özet

Eskişehir'de ilk Yenidoğan Yoğun Bakım Ünitesi yapılanması

Amaç: Yeni bir Neonatoloji Yoğun Bakım Ünitesi kurmuş iseniz, elde edilen sonuçlar değerlendirilmelidir, acaba beklentileri karşılamaktadır diye sorgulanmalıdır. Eskişehir'de tüm yenidoğan bebekleri bakmak amacı olmadığı gibi, eğitim ve bakım amaçlı, kritik yaşam sınırında olan bebeklere bakım ve sevk edilen bir merkez olmadır.
Dayanaklar/Kaynaklar: Buradaki rakamlar 1982-1988 yılları arasındaki ilk kuruluşa aittir. O dönemde Anadolu Üniversitesine bağılı olup, bugün Osmangazi Üniversitesi bünyesindedir. 1982 öncesi Şehir Doğumevinde bakılmaya çalışıyordu.

Giriş: Bir yeni yere yerleşiyorsanız, bir nevi göç ediyorsanız, kabul edilme sorunu yaşarsınız. Biz burada bebeklere bakıyoruz, niye geldiniz derler. Biz geldik, sizin sorunlu bebeklerinize bakmak için, Ankara'ya sevk etmek yerine bize gönderebilirsiniz, resmi olduğu için ayrıca ücret ödemeye gerek yok, hekimlere de para ödenmiyor dedik. <u>Genel Yaklaşım</u>; Doğum Evinde bebek ölüm içinde nedeni prematürelik önemli yer tuttuğu için, bu sayı düşecektir, Kan Değişim için Ankara'ya gönderme yerine, aynı şehirde olması, resmi kurum olması nedeni ile

Yaklaşım: İlk planda yetersiz donanım olduğu için, odalar elektrikli otomatik radyatörlerle32°C ısıtılmış, içerde kaynayan su ile de nem %70 ve üstü tutulmaya çalışılmıştır. Üstün teknik cihazlar gelmesi ile bunların eğitim yapılarak kullanılmış, uzman ekip oluşturulmuştur.

Notlar: Doğum Evi inkübatör almış ama hemşire desteği olmadığı için kullanamamıştır. Bu bizim gün ve gün daha ileri ve gelişmiş olmamıza bir güç sağlamıştır.

Sonuç: Ufak bir ünite olmasına karşın, mezun olan hekimlerin Neonatoloji kavramları oluşmuş, bize daha küçük bebeklere bakmak ve 1500gram altındakilere yaşam Hakkını sağlama azmini kazandırmıştır. Burada sonuçlar görüşlerinize sunulmaktadır.

Anahtar Kelimeler: Yenidoğan Yoğun Bakım Ünitesinin kavram boyutu ile sonuçları

Introduction

In this Article, the results of the Neonatal Intensive Care as taken on those days. Not all, some results are given as example for evaluation of the performance. At those days, the Unit at the Anadolu University, and managing directly to the Rector Hospital, not Medical Faculty as in order.

Directly as a Unit, independent and be activity by their own attempt, not taken any permission from Medical Faculty.

Rotating Capital directly on the way of Unit. Taken the materials, and using controlled by the Unit.

The configuration of the Newborn Unit

The Newborn Unit, as before dining room, all walls are constructed newly ceramic, and the cleaning basin is also added.

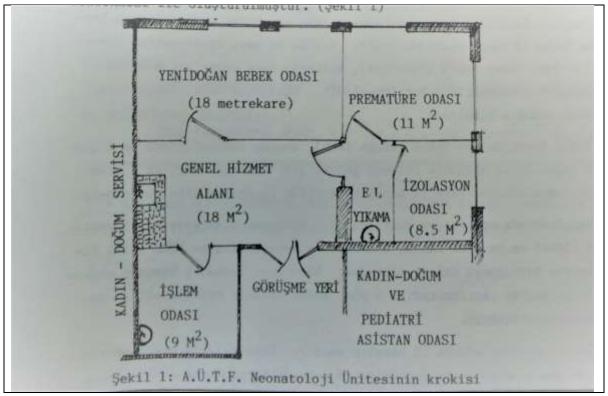


Figure 4/1: Each function has a special space; thus, the unit is near the delivery room.

Equipment Facility

The place is so small, so the equipment not as number thus, by special functions be noted. By rooming facilities, the newborn infant bedding is so differing. There is a special place, closed, as heated according to the chart at gestational age and weight estimation.

So external heating by automatic electric radiator, at least 10 pieces, and boiling water for humidity confirmation, at least 70%, measured by special one.

This allows, only critical and continuously following newborns at this Unit.

A special Neonatology nurse, and even nurses, at the unit, by confirming the walls on glass, so noted the healthy condition of the infants.

As the beds and functions are indicated below.

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The medical equipment in place of the Unit, as M² estimation

Figure 4/2: The capacity of the Neonatology facilities

At new standards, the distance between the incubators must be from 1,5-2meters away. As also same at this organization.

From 1983-1988 the Neonatology admitted cases

YILLAR	N E (YENIDO	o n a t (San servisi	L 0 J + 1000M	t U SERVIS	N İ T E İ = TOPLAM	S Î POL	tki.inik	TOPLAM
1983		311 .		197	508		231 .	. 805
1984					745			. 1233
1985		525 .		446	971		512 .	. 1483
1986					1127			
1987		556 .		535	1091		704 .	, 1785
1988	areanta.	536 .		443	979		880 .	. 1859

Figure 4/3: In 1982 about 3 months not a unit, just a room, so from establishing the unit, the first 6 years of admission.

Outpatient of newborn controls, are also under Neonatology control.

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MAYIS	•	+3		2	559		4				5		-	131		100		120				
HAZIRAN					554						5.0			93				90	- 51	- 3		
TEMMUZ					720								2	130				127	-			
AGUSTOS				•	551									136			1	130	-			57
EYLÜL	•				703									249				201				56
EKIM	3				726									217				166				45
KASIM	18		2	i.	731								-	243		-		186				48
ARALIK					313									240				165				36

Social Pediatrics: Outpatient, Healthy infants, Control, Intensive Care controls'

Figure 4/4: Social Neonatology outpatient survey, controls

Outpatient of Pediatrics during months mean 652, for Neonatology 46,2 as 31% cases, one third.

13.2
15.8
18.0
16.4
14.5
20.4

Figure 4/5: The mortality death ratio is higher, because about below 1500 grams preterm.

Mortality ration of preterm infants as 31,6%. As literature reports, it is dropped from 59 to 26%. Thus, after a week, letting to die, euthanasia, anomaly confirmed infants not in statistics.

Total evaluation of infant, in 1983-1987 as cause of first reason of death

ÖLÜM NEDENLERI	1983-	1985	1986	YILI	1987	YILI	TOPLAN	
	Seys	x	Says	I	Sayı	z	Saya I	
1. Solunum ve Dolaşım Sistemi	111	46.5	110		-			•
-Prematiirelik + Respiratuvar distres		40,3		65.2		51.6	331 53	.2
-Respiratuvar distres	47		74		52		173	
-Solunum ve Dolaşım Yetmezliği			16		4 7		52	
-Asfiksi, hipoksi, anoksi	23		15		7		49 57	
2. Infeksiyon Hastalıkları		23.0	31	17.1	53	33.3	149	24.0
-Sepsis (Prematürelik & DIC birlikt	æ)56		28		50		134	
-Pnomoni	4		2		2		8	
-Gastroenterit	3		-		1		4	
-Diger (Tetanoz, intra uterin	1.)2		1		-		3	
3. İmmatürite & Prematürelik	49	17.4	11	6.1	9	5.7	7 69	11.1
-RDS ve Sepsis dışı olan ölüml	er							
4. Konjenital anomaliler	19	6.7	11	6.1	3	1.	9 33	5.3
-Konjenital kalp hastaligi	7		3		1	0	11	
-Diger anomaliler	12		8		2	£	22	
5. Doğum travmamı	. 4	1.4	3	1.7	6 3	. 0.	.6 8	1.3
6. Diger nedenlær	. 14	5.0	7	3.8	1	1 6	.9 32	5.1
-Yaygın dəmariçi pihtilaşma (DIC)	. 8		4			4	16	1
-Kernicterus	. 3		3			1	5	50
-Akut böbrek yetmezligi	. 2			• 31		4	(50
	8			U		2	1	6
-Ileus			3	ı		-	3	1
TOPLAM	282	100.0	18	1 100.0	15	i9 100	0.0 62	2 100.0

Figure 4/6: The ratio between the years as 100%

Causes mainly as expected RDS 53,2. For preterm: RDS, sepsis, immaturity, anomaly as 409 infants to 622 cases, thus, 66% deaths for preterm, main group.

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As the death ratio from prenatal to post-natal

Figure 4/7: For perinatal death ratio as indicated above, by months, in the year in 1986.

In 1988 the at Perinatology	and also the case	information is given.
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ATLA	I PRENATAL	NATAL	P O S T	NATAL	
	II FROMINE	COLOL	DOGUN SONU 1. DÖNEM	ILE HAFTA IÇİNDE	GEC DÖNEM ÖLÜHLER
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SUBAT	-	1.00	-	1(4.gun, 36 GH,	
MART	1(36(0))	-	1(2.sant. 26 GH)	2(1.gun, tictz, RD5)	1G2.gin,
NISAN	1(32 GH, Amerusefali)	17.1		2(1.glin, 34 GH, 2.glin, 36 GH,	- Seperia)
MAYIS	1C21 GH)	-	1(1.snat. 27 GO	805) 2CL,gun,36 GH, 5,gun,41 GH,	-
HAZIRAN		-	1(2.seat, 28 GH,RDS)	RDS, Sepuis) 2(2.gun, 30 GH, 4.gun, 33 GH, RDS, Sepuis)	2(10.gtin, 12.gtin, Asp.potnos
TIPMUZ	1(37 QI)	-		2(1.giin, 29 GH, 2.giin, 41 GH,	GT atreat)
AGUSTOS	2(29 GH, Acennofa 34 GH, BeLongeri	dii.	1.(2.dak,24 GD	RDS) 1(16.sant,25 GH)	-
EYLUL	1(24 GH)	-	-	1.4	
EKIM	1(1) (1)	1(ltidro- sefal1)	20. sont, 33 GH, 2. sont, 25 GE)	1	-
KAGIM	3C28 GH, Ab, ples, 33 GR		1(1.sunt.,25 (H)	1(1.glin, 36 GH, malforme)	-
ABALIE	36 GH, Arsensetta 2(42 GH, Mentingos 40 GH, Anno Torp koma)	. I.	-		-
TOPLAM	13	1	3	14	-

Figure 4/8: Most deaths as in first week, as noted in preterm infants.

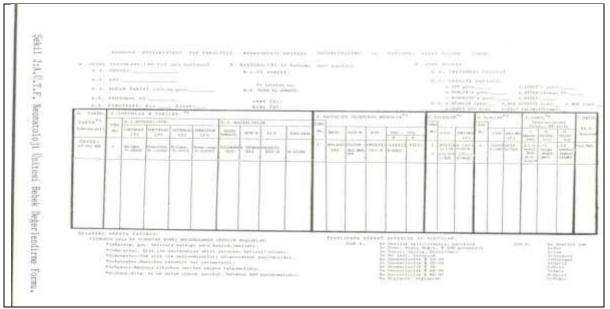
Perinatal deaths are also evaluated and put on a table.

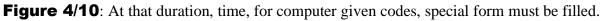
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009.0	Gastroenterit		4			0.7		4	23			4.1
038.9	Sepsis		28	÷.		5.1	2		44			7.9
228.1	Lenfangiom		-			-	2		1			0.2
255.2	Adrenogenital seadrom		1			0.2		÷.				-
272.7	Lipoid depo hastaliĝi		-			-			1			0.2
289.7	Methemoglobinemi		1			0.2						+
322.9	Monengit		-			-		-	1			0.2
343.9	Serebral Palai		2			0.4			-			-
376.5	Enoftalmi	2	1			0.2			-			-
286	Pnomon1	8	1			0.2			15			2.7
519.9	Ust solunum yolu infeksiyonu .		1			0.2			-			
553.1	Omfalosel	1	1			0.2			-			-
560.9	Gastrointestinal obstruksiyon		-			~			4			0.7
646.6	Intrauterin infeksiyon		-			-			1		÷	0.2
658.1	Erken mebran rüptürü		-					÷.	4			6.7
686.0	Piyodermi	8	-			-			1			0.2
868.9	Saçlı deride infeksiyon	8	1			0,2			-			-
711.0	Septik artrit		-			-			1			0.2
740.0	Anensefali		3			0.5			1			0.2
741.9	Meningosel, Myelosel, Ensefalosel		18			3.2			9		2	1.6
742.1	Mikrosefali	<i>i</i>	1			0.2			-			-
742.3	Hidrosefalt		-	÷.		-		2	1			0.2
764.8	Ectopia cordia		1			0.2		<u>.</u>	-			-
746.9	Kongenital kalp hastalığı		6			1.1			2			0.4
749.1	Yarık dudak, yarık damak		4	2		0.7			-		÷.	-
751.5	Inperfore anus		2			0.4		2	-		÷.	-
753.3	Anuri		1			0.2			+			-
753.9	Uriner sisitem malformasyonu .	÷	-			-			4			0.7
756.5	Osteogenezis imperfekta	8	-			-			3			0.5
756.7	Castropizis	6	-			-			1			0.2
756.9	Eklem malformasyonu	ŝ.	-			-			2			0.4
758.0	Down mendromu	8	-			-			2			0.4
761.5	lkiz eşi	6	26			4.7			-			-
763.1	Iri bebek	6	2			0.4			-			-
764.1	Intrauterin malnutrisyon		4			0.7			5			0.9
765,1	Prematürelik	. 1	82			32.9			139		. 1	25.0
766.2	Postmatúrite		-			-			2			0.4
767.1	Sefal hematom	÷	2			0.4			1			0.2
767.9	Doğum travması	6	7			1.3			-			-
768.9	Asfiksi		33			6.0			20			3.6
770.1	Aspirasyon(Mikonyum, amnion, sava)		29			5.2			14		*	2.5
770.3	Akciger kanaması		2			0.4			-		•	-
770.8	Respiratuvar distres & Siyanoz		79						53		• !	9.5
771.3	Yenidoğan tetanozu		2			0.4					÷.	-
771.4	Omfallt		1			0.2			-			1
771.8	Idrar yolu infeksiyonu	ē.	-		٠				2			0.4
772.4	Gastro-intestinal kanama	÷.,	1		*	0.2			3			0.5
772.9	Yenidoğanın hemorajik hastalığ		2		٠	0.4			-	+		7
773.2	Anem1		1			0.2			7			1.3
774.4	Neonatal hepatit		1		٠	0.2			-		•	
774.6	Hiperbilirubinemt					28.0			149			6.8
775.0	Diahetik anne bebegi		3		٠	0.5			7			1.3
775.5	Dehidralasyon		9			1.6			11			2.0
775.6	Hipoglisemi		2			0.4			-			
778.4	ALey		1			0.2						
779.0	Konvulsiyon	i -	8			1.4			20			3.6
789.3	Karında kitle	2	1			0.2			1			0.2
821.0	Femur kiriği		1			0.2	÷.	S	-			-

In 1986-1987 the ICD Codes of the infants at Neonatology Unit

Figure 4/9: For not an indication of Neonatal concept, only some examples of statistics For all admitted cases are put on the ICD Codes.

For computer taken codes





Mortality rate differences Before and after Neonatology Unit

This is the recorded concepts as given in Turkey State information, at education lectures. Recorded neonatal death at 1993 to 29, reduced at 2008 to 13. Recorded Post neonatal death: at 1993 to 23, reduced at 2008 to 4 Recorded Child death: at 1993 to 9, reduced at 2008 to 6 Recorded Infant death: at 1993 to 53, reduced at 2008 to 17 Recorded Below 5 years old death: at 1993 to 61, reduced at 2008 to 24

From 1915 to 2005 Reducing of Neonatal Mortality in all rates

1915-2005 Yenidoğan (en alt mavi), Pediatri ve diğer yaşlar, Genel Mortalite oranları

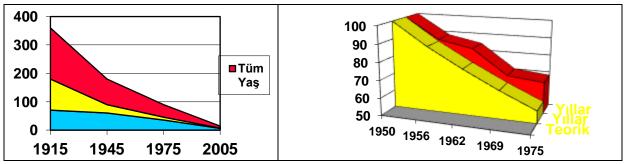


Figure 4/11: At 1945 noticeable, thus at 1975 remarkable lowering.

1945 yılında bir azalma olup, 1975 yılından bu yana giderek azalmıştır. Azalma düz aşağı değil, arada plato çizerek olmuştur.

			-		· · · ·	
	First	Degree	Second	Degree	Third	Degree
Nurse	1500g over	NRP	1000g over	NRP	1000g below	NRP
Physician	35-37GW	1 Ped.	32 GW	1/5 bed Ped.	32GW below	Neo
	First	Degree	Second	Degree	Third	Degree
Ratio	85%	15%			Sequel 4-5	Ex 7
1000 birth	850	150 Prob	90	30 Ventilator	30	20
	First	Degree	Second	Degree	Third	Degree
Ratio	16%	15% Risk	6-7%	10% ventilator	1-2%	3%
At 1000birth	160 infants	10 CPAP	60-70 infant	Referred 30	10-20 Vent.	Sequel 5

Neonatology Organization, First, Second- and Third-degree care Neonatoloji Yapılanmasında İlk, İkinci ve Üçüncü Derece Bakım yapılanması

Figure/Table 4/12: For approach to Neonatology Concept, 150 infants must need care, even 30 for intensive care.

Bin doğumda 150 sorunlu bebek beklenir, bunun 30 adedi Yoğun Bakım bebeğidir.

Mortality Rates; preterm, term and still birth is lowered by Neonatology Concept Neonatoloji sisteminde, Yenidoğan ve prematüre ölümleri, ölü doğumlar azalır

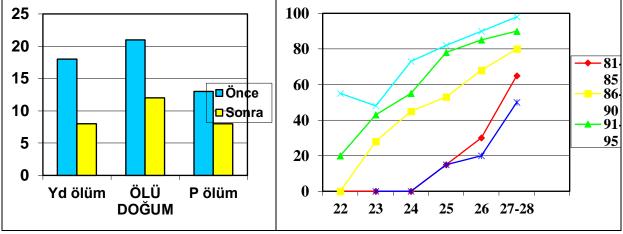


Figure 4/13: For approach to Neonatology Concept, recordable decrease in mortality. Thus, in case of euthanasia, not more than 2 weeks overcome ventilation, anomalies not treated, so at GW nearly 50% cure is not believable.

Birçok yayında 22 GH %20 yaşattıkları belirtiliyor, ötenazi, anomalili ve bir haftada cevap olamayanları istatistikten çıkarıyorlar. 28 GH servisimizde %50 yaşamaktadır.

This Article not on Medical and Neonatology, just given an example. So, not brief explanation about the numbers.

Conclusion on Reasoning and Grounding

<u>Reasoning of establishing, a kind of migration</u>: As a traditional concept, the establishing of the first Neonatology Unit with the grounding and reasonings are noted at this Article.

The point there is a dormitory hospital and even birth and cesarean section performed, so, why need to established a new Unit? This is the confirmation the benefit for newborn infants, especially not only for care and serve, thus educated on Neonatology Medical Branch, giving profession, and being a center of preterm care and serve, such intensive care facilities concept.

The best, by resuscitation and other Right to Life aspect, more than thousand preterm infants now alive and even we noticed graduated from Medicine, Engineering and now married and have children. The love concept on Humanity.

Even a mother of cerebral immaturity, like anencephalous, said to me, about so much thanks. Feeling and holding, and even feeding the real her infant and take care about 6 months, so noticed, perceiving the meaning of mother, so grateful to me.

Not letting to die, not left behind, considered as a living one, so take care, love and be hold as an infant, human child.

This is a migration of the medical concept, as changing the attitude and the perception of looking to the preterm infants, not letting to die.

<u>Grounding for construction to a Unit</u>: There is a Maternity Hospital in Eskişehir. So, need Neonatology concept?

At first being as University of Anadolu, the Medical Faculty Section, started at Hacettepe University, Medical Faculty. Education of Medical Students there, up to internship.

The old Thoracic Diseases Hospital buildings as used before for tuberculosis, completely rearranged for University Model Hospital and given to Anadolu University.

At Eskişehir, there are Academies; Trade and Merchant, and Engineering, as combined, united together with to Anadolu University, in 1982.

Thus, Neonatology not a profession section, so in General Pediatrics, it is a new concept to established Newborn Intensive Care Unit.

Although there is an academic position at Hacettepe University, Authors accepted to come the University as established Newborn Intensive Care, as the first member of academics; Nos: 001.

There is great rejection, on Pediatricians, and other maternal units.

At 1979 years, thus Neonatology Unit configuration at 1982, the Obstetrics and Gynecology assistants were working at Eskişehir Governmental Maternity Hospital, and we, authors and some OBGYN and pediatric assistants, were visiting them, education and concerning the infants.

One day, I saw an infant, on basin, left there. I checked 6-10 heart beats, by hand noticed. Taken and gave 47cmWater pressure for opening and 5-6cm routine by mouth.

In education, by 60cm long glass vase, by plastic tubes, try to confirm the pressure. So, this is not exact measurement thus, by estimation.

The nurse, informed and warn me, he is death, not disturb and harm the body. And in addition, indicated as, "Are you Christ, as making life to death person?" I reply, "yes, I only did what Crist did before, not a Christ, but knew the act". "If you learn it, you can do what Christ performed." This makes a great stimulus, so everyone wants to educate, being on certification program, so, later not any opposition required.

<u>Migration of the Author</u>: The migration to Eskişehir not by force, just for demand to establish a new unit. So, the Author, the individual must be distinguished, whether it is factual or not.

Education Primary, Secondary and Lycée on TED Ankara Collage. For Erzurum Medical Faculty gained at 6th line, in 1966, so, educated at Ankara University, in 1966 later to Hacettepe University, in 1968. Basic medical sciences, medical clinical sciences, internship, even also at Guy's Hospital in General Surgery, London, in 1970, and graduated at Hacettepe University Medical Faculty in 1971. First line Research Assistant, and chief resident in 1976-77. Being a pediatrician in 1977.

As an opportunity being an academic career education, wanted to established a new unit in Eskişehir.

Dad, opposed, and I said, you were the primary graduate in 1941 of İstanbul, so had chance further education, selected to work for malaria and tuberculosis medical treatment. He, father respond as, they need physician. So, later indicated for 5 years being established, if not return to Hacettepe. In 1982 Associated Prof and in 1982 established the Unit.

From no patient bed, not any delivery room, and not any nurse or other medical staff. Only 5-10 children admitted on outpatients.

So, not forgive, not even hesitate, go forward, walk on goodness, for medical unit. That is why we are educated.

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