

International Study Visit, CERTH, Greece 11-13 Feb 2020



***Health Sciences University***



TEPECİK TRAINING  
AND RESEARCH  
HOSPITAL

***Tepecik Training and Research Hospital***

***Izmir***

***H. Hakan SAKAOGLU***

***hhsakaoglu@yahoo.com***

International Study Visits of TARAL to EU Key Players

# Description of the Organization



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# Description of the Organization

- 3rd biggest Public Hospital in Turkey
- Nearly 1,000 Bed Capacity
- Ca. 4,000 Staff (900 Physicians, 1,500 Allied Health Staff, 1,500 Outsource Staff)
- 145,000 inpatients Per Year, 9.500 Outpatient Per Day

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# Description of the Organization

- 42,000 emergency applications, 68,000 trauma cases,
- 2,143 Group A surgery, 112,290 Group E surgery with the total 137,173 surgery,
- 9,751 births,
- Provides 20,150 intensive care hospitalization services within the scope of 194 beds.

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# Research Interests

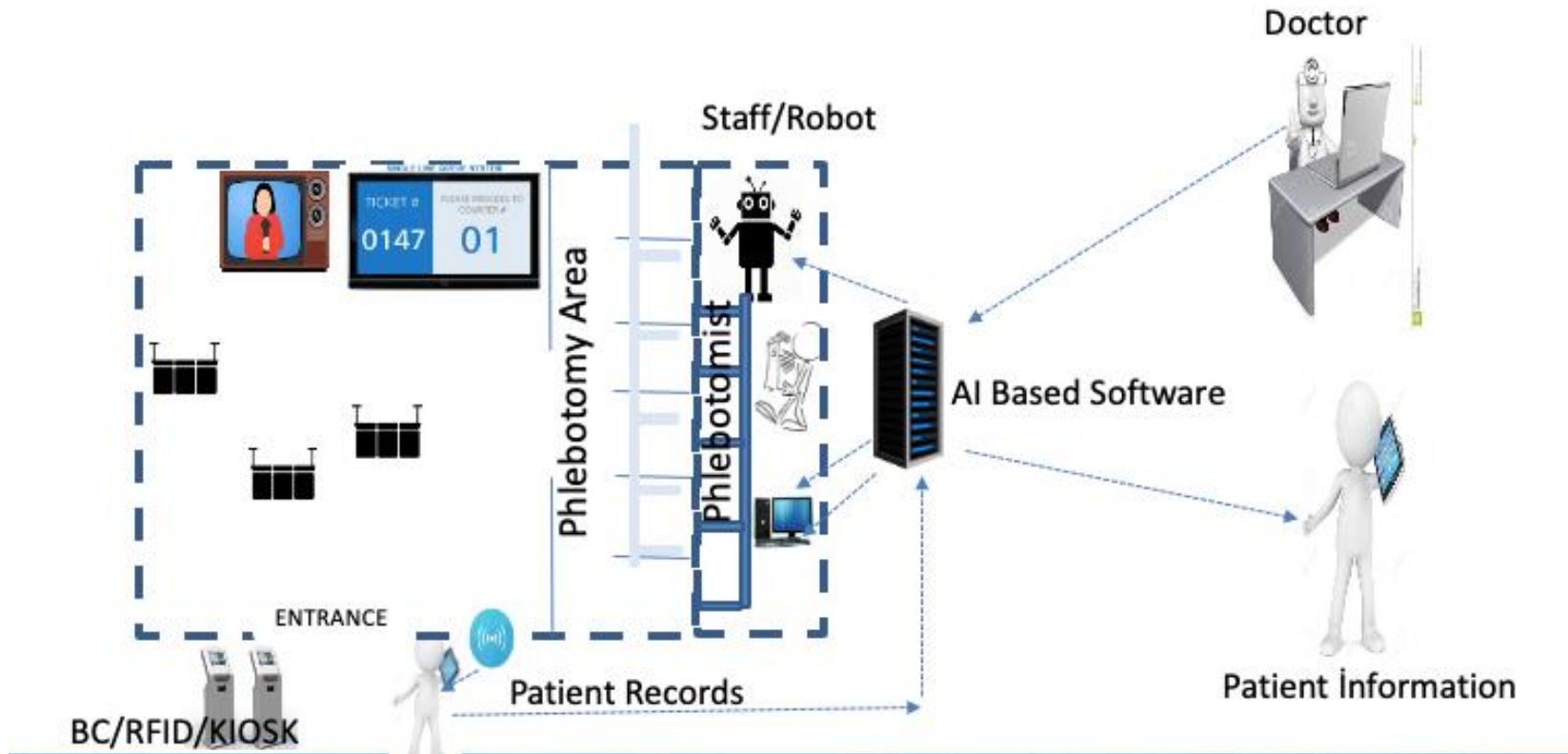
## PHLEROBO (AI Based Phlebotomy)

- Maximum patient and sample safety
- Analyzing antecedence patients
- Accelerate system
- Learning algorithm of physicians and patients history
- Suggestion to physician
- Clever material planning

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# Research Interests

## PHLEROBO (AI Based Phlebotomy)



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# Research Interests

## PHLEROBO KIOSK



# Research Interests

## PHLEROBO LCD

Ayla  
Derbentoğlu

2

No'lu odaya ilerleyiniz  
يرجى الذهاب إلى ممرضة

TC Sağlık Bakanlığı

©Labenko Bilişim A.Ş. (2015)

Ayla Derbe... TC  
24-004

2

Elmast Gül... TC  
10-076

4



## PHLEROBO SECRETARY

Menu

Labenoid

Klinik Çıkışlar

Kişisel Veriler

2x

Barkod Yazdır

TOKLUK KAN  
ŞEKERİ (TKŞ)  
numunesi için hasta  
teknik gelecek

Derbentoğlu, Ayla  
29103158 24-004-1902 55y K  
215003301  
Kan 3  
HEMOGRAM

Derbentoğlu, Ayla  
29103158 24-004-1902 55y K  
215003301  
Kan 5  
TAM OTOMATİK KODAR


Derbentoğlu, Ayla  
29103158 24-004-1902 55y K

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# Research Interests


## PHLEROBO PATIENT VERIFICATION



**Ayla Durbentoğlu**  
 24.05.1982  
 LSP: 100161769  
 485 5667

Yan: Günye  
 Göz: Kırık  
 Ane Alır: Balık

Sırtı Tozlu     Kırıklı Tozlu     Parmaklar Tozlu



**Hastanın Kimliğini Doğrula**


44

Ek Sıra

**Tekrar Anons**

**Hasta Gelmedi**

## PHLEROBO PHELEBOTOMY



**Ayla Durbentoğlu**  
 24.05.1982  
 LSP: 100161769

**\*Sadece Numune Alınan Tıpkıyap Okunabilir**

Numune Kimlik Numarası:

Numune Kimlik No: 2116063379  
 Numune Kimlik No: 3516063379  
 Toplam Alınan Numune sayısı: **2/3**

Numune Almaya Tamamla

1816063379  
 TOKLUK KAN  
 ŞEKERİ (TKŞ)  
 numune için  
 hasta tekrar  
 gelecek

1516063379  
 17.35.29

1116063379  
 17.35.48

3316063379

2316063380  
 Numuneyi Hasta  
 kendisi alacak

# Research Interests

Hasta  Hemşire  Sekreter  Grafik  1 Aralık 2017

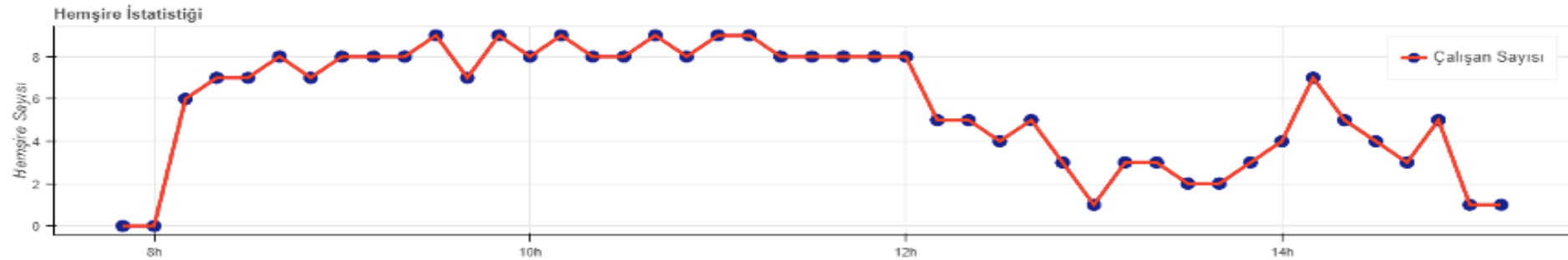
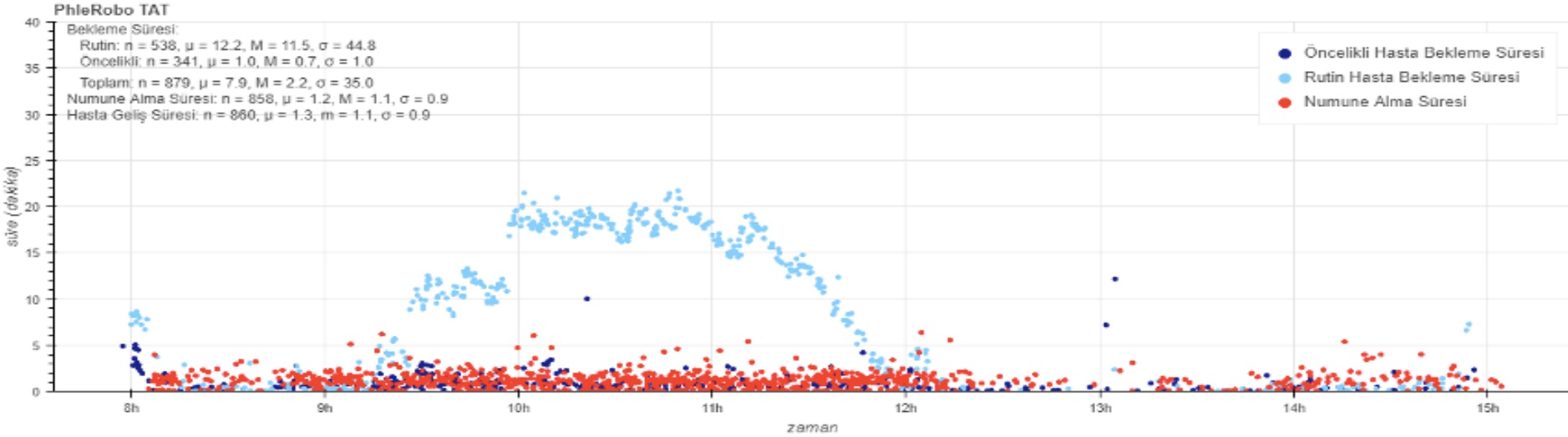
 <b>Lutife Erdem</b> Hizmet verilen hasta sayısı : 1 Hastadan alınan tıp sayısı : 0	 <b>Birsen Özgün</b> Hizmet verilen hasta sayısı : 1 Hastadan alınan tıp sayısı : 7	 <b>Özlem Darıcı</b> Hizmet verilen hasta sayısı : 78 Hastadan alınan tıp sayısı : 190
 <b>Müge Harman</b> Hizmet verilen hasta sayısı : 89 Hastadan alınan tıp sayısı : 203	 <b>Semiha Usluduran</b> Hizmet verilen hasta sayısı : 58 Hastadan alınan tıp sayısı : 134	 <b>Ayten Uçar</b> Hizmet verilen hasta sayısı : 68 Hastadan alınan tıp sayısı : 151
 <b>Türkan Öztürk</b> Hizmet verilen hasta sayısı : 67 Hastadan alınan tıp sayısı : 142	 <b>Handan Dünder</b> Hizmet verilen hasta sayısı : 72 Hastadan alınan tıp sayısı : 176	 <b>Hatice Serpil Alcan</b> Hizmet verilen hasta sayısı : 90 Hastadan alınan tıp sayısı : 187
 <b>Zeliha Doğan</b> Hizmet verilen hasta sayısı : 45 Hastadan alınan tıp sayısı : 122		

Hasta  Hemşire  Sekreter  Grafik  1 Aralık 2017

 <b>Seda Metin</b> Hizmet verilen hasta sayısı : 1 Barkodlanan numune sayısı : 2	 <b>Duygu Aktürk</b> Hizmet verilen hasta sayısı : 148 Barkodlanan numune sayısı : 373	 <b>Özge Barut</b> Hizmet verilen hasta sayısı : 59 Barkodlanan numune sayısı : 138
 <b>Duygu İlk</b> Hizmet verilen hasta sayısı : 164 Barkodlanan numune sayısı : 432	 <b>İsmail Erdi Kahraman</b> Hizmet verilen hasta sayısı : 122 Barkodlanan numune sayısı : 326	 <b>Suna Yılmaz</b> Hizmet verilen hasta sayısı : 90 Barkodlanan numune sayısı : 226
 <b>Birsen Özgün</b> Hizmet verilen hasta sayısı : 1 Barkodlanan numune sayısı : 7		

# Research Interests

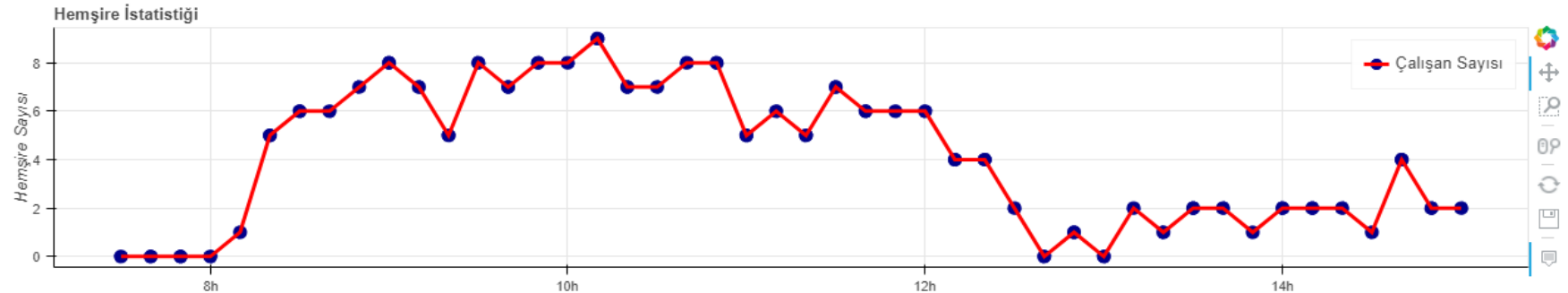
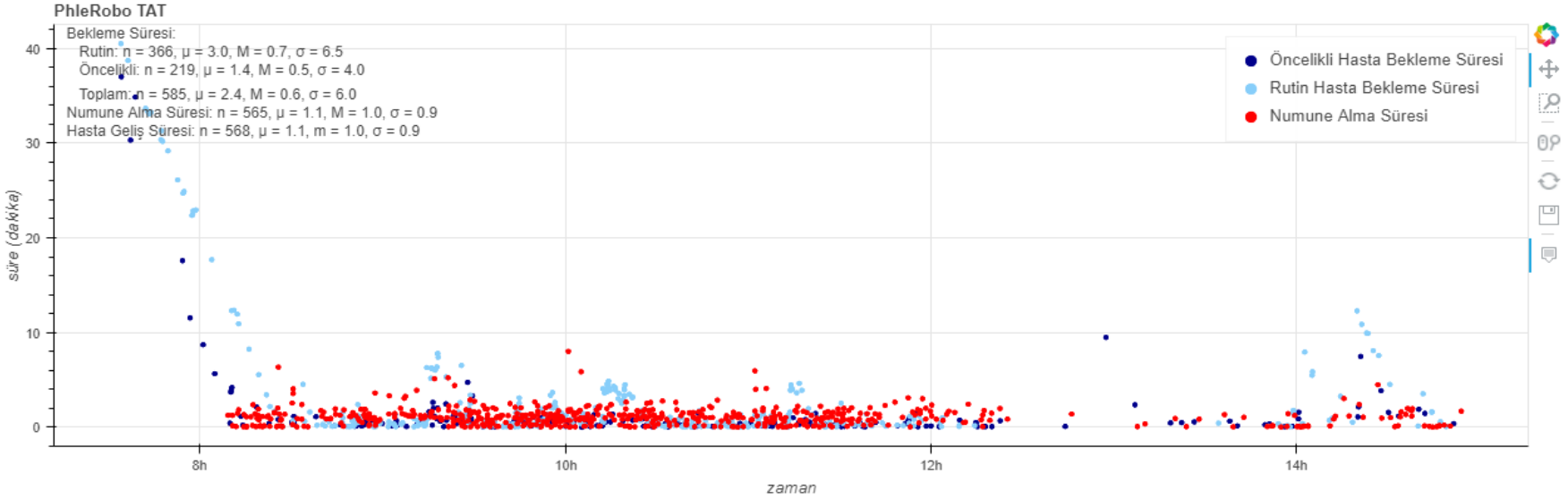
- Admin (Waiting Times before PhleRobo)



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# Research Interests


- Admin (Waiting Times after PhleRobo)




# Research Interests

## Patient Satisfaction Survey

		Satisfaction after phlerobo					Total	Percent	
		Very Bad	Bad	Tolerable	Good	Very Good			
Satisfaction before phlerobo	Very Bad	1	0	2	5	5	13	3,8%	39,3%
	Bad	0	1	24	48	49	122	35,5%	
	Tolerable	0	6	6	57	29	98	28,5%	
	Good	2	22	15	13	36	88	25,6%	32,3%
	Very Good	6	6	5	1	5	23	6,7%	
Total		9	35	52	124	124	344		
Percent		2,6%	10,2%	15,1%	36,0%	36,0%	p<0.001		
		12,8%		72,0%					



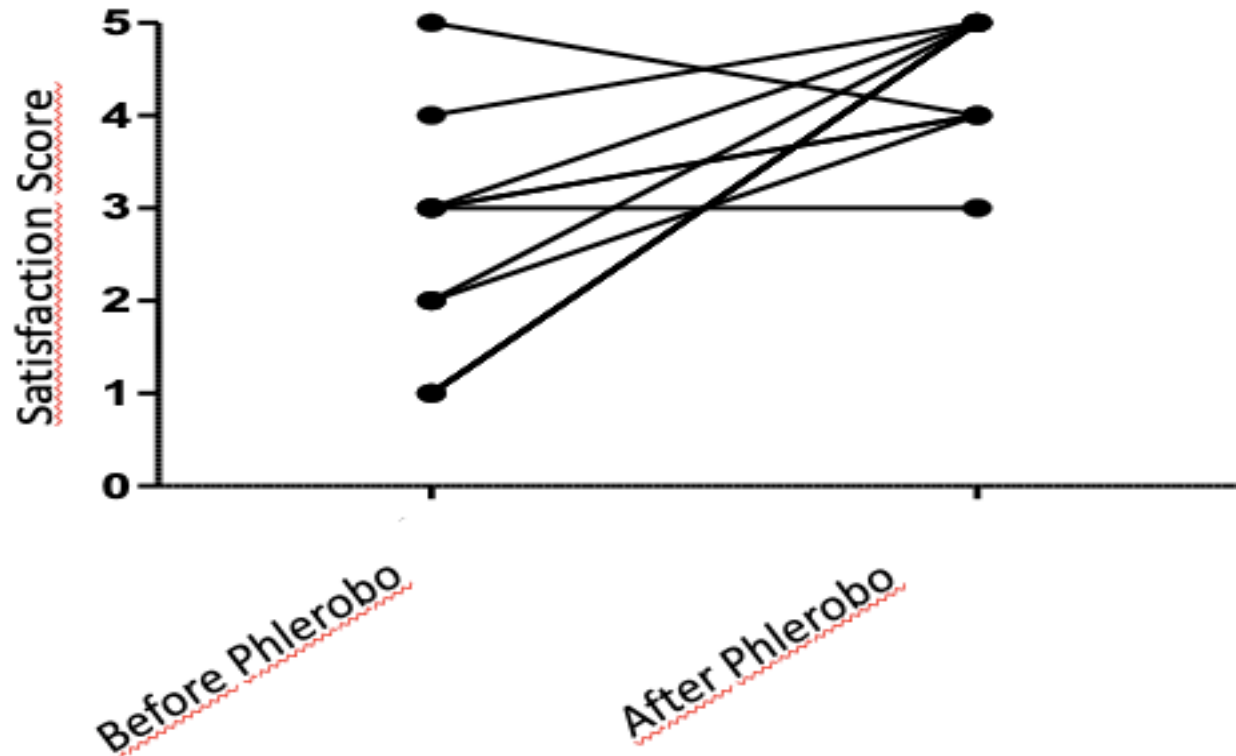
Satisfaction before phlerobo



Satisfaction after phlerobo

# Research Interests

## Phlebotomy Staff Satisfaction Survey



# Research Interests

Project Name : VitalPallia

- Vital Bag for :
  - Family Doctors
  - Primary Care Physician
  - Palliative Physician
- 8 – 10 Medical tools in each bag with Wi-Fi
- Pre-diagnosis & diagnosis at home or Ambulance
- Live data transfer with Hospital
- Treatment with Decision Support System
- Integration with Telemedicine System
- Integration with National Health Data System (E-Pulse)

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# R&D References

- Izmir Trauma Project, Hospital Registration and Field Triage Protocol According to Major Trauma Response, The prospective analysis of data about trauma in the field.
- Regional Palliative Care
- Education of Trauma Simulation Implementation
- First in Turkey, Real time medical intervention to the multiple trauma, transport the patients in the right time to the right hospital with real time data's.

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# Specific Topics and Calls

## We are interested in

- AI for Genomics and Personalised Medicine DT-TDS-04-2020
- AI for the smart hospital of the future DT-ICT-12-2020
- Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data SC1-BHC-06-2020
- International cooperation in smart living environments for ageing people SC1-DTH-04-2020
- Use of Real-World Data to advance research on the management of complex chronic conditions SC1-DTH-12-2020

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# Collaboration Offer

- AI Experiment
- Oncology Hospital
- Children's Hospital
- Stroke Treatment Center
- Experienced physicians
- Big data for projects
- End user
- Medical Tourism
- 10.000 outpatient per day
- 100.000 refugees in Izmir

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# H. Hakan SAKAOGLU

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