Presenter's profile

Dr Suhail Chughtai FRCS
Orthopaedic Surgeon, UK

Microsoft Certified Specialist & Telehealth Expert (UK, USA, UAE, Pak)

Chairman

Medical City Online UK

CEO

Citrus Health Pakistan

Book Author: "Telemedicine" A Novel Way To Fight a Pandemic



Director of Telehealth Dept

Association of Pakistani Physicians & Surgeons, UK Adam Global, Healthcare Division, UAE

European Ambassador

Patientory Healthcare Blockchain Association, USA

Telehealth International Faculty Lead

University of Health Sciences, Lahore, Pakistan

Chairman

Pan Arab Telemedicine & Artificial Intelligence

Conference, 2019

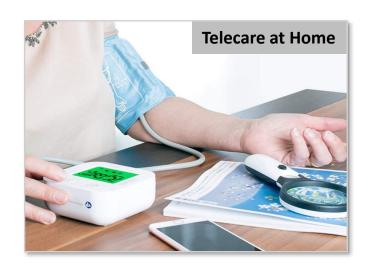


Our Telemedicine Service Models

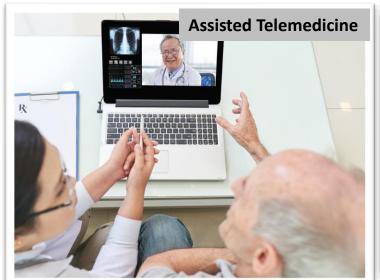


Technology by Medical City Online UK, delivered via Local Partner in the region















Our Telemedicine Service Models



Technology by Medical City Online UK, delivered via Local Partner in the region

OR

Mobile Spoke (Telemedicine Van)

Designated parking space in or near the Hospital



Fixed Spoke (Telemedicine Room in Hospital)

Single room needed for conversion into Tele-OPD



Mobile Spoke (Telemedicine Van)

OR

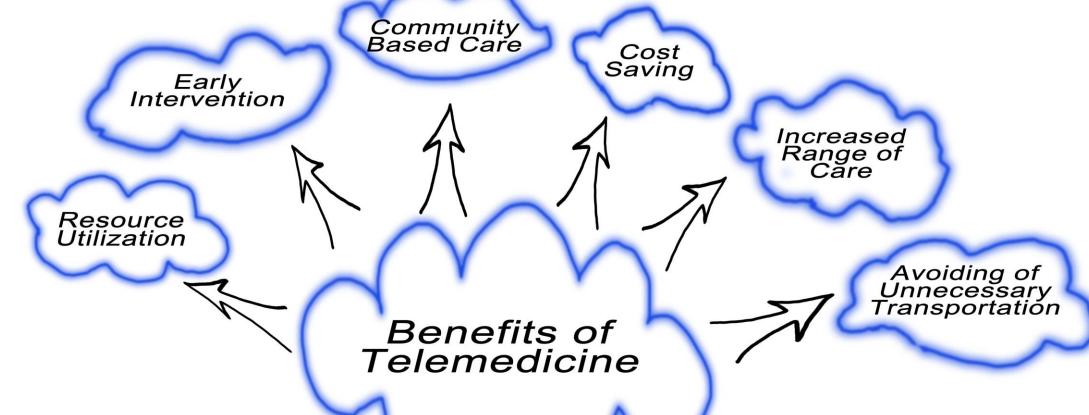
Fixed Spoke (Telemedicine Room in Hospital)









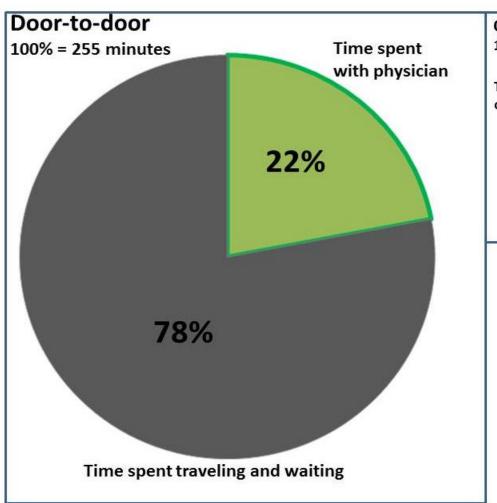


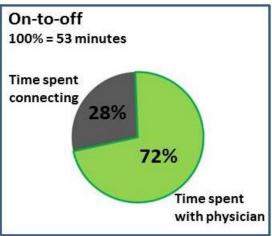
THE IMPACT OF TELEMEDICINE

Dr Bilal Ahmed MD FRCP FACP
PROFESSOR OF MEDICINE
University of Rochester
New York, USA

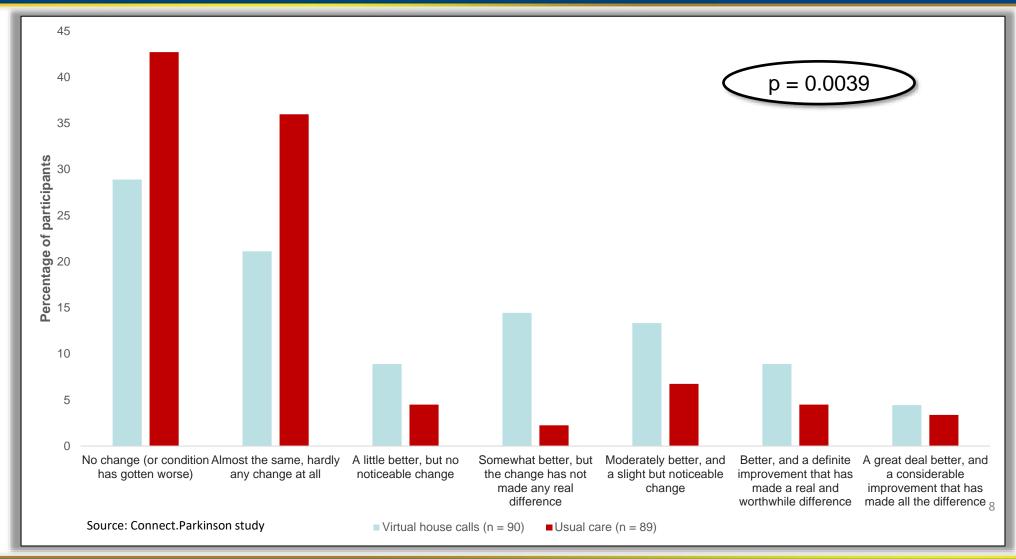
Virtual Visits flip the Care Paradigm

Patient time spent on In-person versus Telemedicine visits





Patients receiving Virtual House Visits indicated a greater improvement in Healthcare Outcome







TELEMEDICINE CAN IMPROVE THE OVERALL STANDARD OF CARE

A national study in the UK indicated that "if correctly used", Telehealth can deliver:

- 15% reduction in accident and emergency visits
- 20% reduction in emergency admissions
- 14% reduction in elective admissions
- 14% reduction in bed days
- 8% reduction in tariff costs
- 45% reduction of mortality rates





TELEHEALTH IMPROVES OVERALL HEALTHCARE OUTCOME

- IMPROVES CLINICAL GOVERNANCE
- PROVIDES EVIDENCE BASED CARE
- BRIDGES GAPS OF RURAL HEALTHCARE SERVICES
- IMPROVES ACCESS TO MODERN HEALTHCARE SERVICES AND EXPERTISE
- REDUCES ADVERSE EVENTS
- GIVES PATIENT AN INCREASED CHOICE OF HEALTHCARE SERVICES





TELEHEALTH IMPROVES HEALTHCARE ECOMONY

Telemedicine adoption improves the cost efficiency of a healthcare system

- Use of Telemedicine for Retinal Screening as a study case
- Shown to be beneficial and cost-effective for diabetes management
- Telemedicine empowered Healthcare system improves the "Quality Adjusted Life Year" (QALY) ratio

Lee, J.Y. and Lee, S.W.H. (2018). Telemedicine Cost–Effectiveness for Diabetes Management: A Systematic Review. *Diabetes Technology & Therapeutics*, 20(7), pp.492–500

Telemonitoring was cost-effective in diabetes management (Lee and Lee, 2018).





TELEMEDICINE MAKES HEALTHCARE GREENER

Telemedicine adoption reduces the Carbon Footprint of the region

- Reduces the use of transport for patient
- Minimizes Paperwork consumption
- Lowers the need of In-office services





TELEHEALTH IMPROVES EPIDEMIC CONTROL

Telemedicine as a tool to fight epidemics

- Helps limit disease transmission
- Ensures continuity of care despite access limitations
- Regulates Disease prevalence
- Collects reliable data
- Protects Healthcare workers (Doctors, Nurses, Paramedics)
- Protects Patients from mutual contact in waiting rooms
- Overall pathogen burden is lowered making strategies work

Telemedicine Helpline

"www.Doctors247.online"

Launched on 18-03-2020 At University of Health Sciences Lahore, Pakistan



کورز پنجاب چہ بدری مجدسر ورانسدا دکرونا کے لئے یا کستان کی پہلی کورونا کیلی میڈین ویب پورٹس اورکورونا مو پاکس ایپ کا افتتاح کررہے ہیں۔(18 مارچ2020)





First Announcement of the National Telemedicine Corona Hotline by Dr Suhail Chughtai, Chairman Medical City Online, followed by formal inauguration by the CM and VC-UHS

Managed by UHS and Citrus Telemedicine

A Doctors247 Online Powered by Medical City Online, UK

Governor & CM Punjab Corona Telemedicine Helpline





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Dr. 1: SZABMU Islamabad

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Dr. 1 CHL Lahore

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Dr. 1: RMU Rawalpindi

Online



Dr. 1 Jinnah Hospital Lhr.

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Dr. 1 DRIP Ireland

Offline



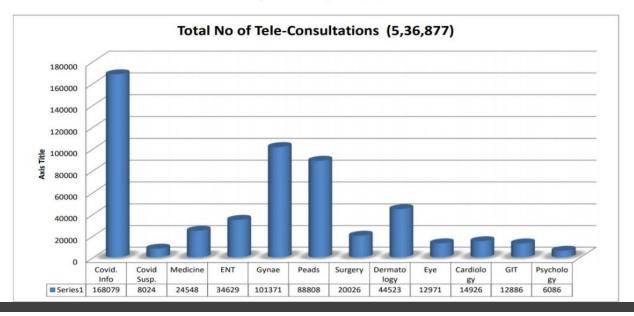
Dr. 2: UHS, Lahore

Online

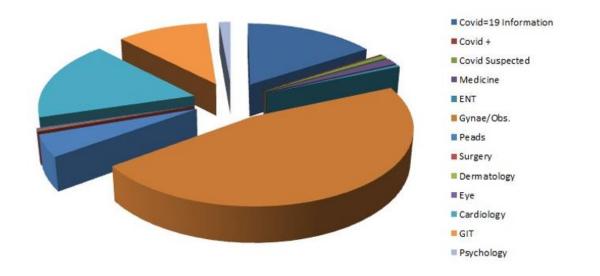
Governor & Chief Minister Punjab Telemedicine Helpline

Graphical Presentation of Tele-Consultations Data

Report Date: 25 September 2020



1 University of Health Sciences, Lahore



Governor Punjab, Ch Muhammad Sarwar being briefed by the Vice Chancellor UHS, Lahore at a VC Committee Meeting



President Pakistan Dr Arif Alvi being briefed upon the project of Doctors 24/7 Online Telemedicine Helpline



BBC UK films the Tele ICU demo at www.TeleWardRound.com for a feature report – Pak end











BBC World News reports Telemedicine Services in Pakistan setup by Dr Suhail Chughtai, arranging Virtual Teleward Rounds by UK Specialists through a special Telemedicine software to help patients in Corona ICU wards in Pakistani Hospitals.

https://www.youtube.com/watch?v=9KP_yKR8VT0



Prof Angus Wallace at BBC East Midlands Channel gives a prelude on Telemedicine's role in fighting a Pandemic, exemplifying www.Doctors247.online as a model software for the purpose

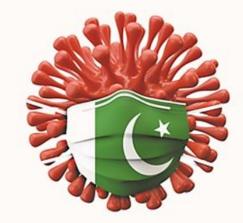


Dr Humayun Baig and Dr Farwah Rubab walk through the Telemedicine Helpline Hub setup at University of Health Sciences, Lahore in a short interview at TV Channel of Voice of America, Pakistan.

https://youtu.be/3VVhnWBlvIA

TELEMEDICINE

A NOVEL WAY TO FIGHT A PANDEMIC



A SUCCESS STORY FROM PAKISTAN

Authors PROF W ANGUS WALLACE DR SUHAIL CHUGHTAI

Foreword by PROF JAY SAUNDERS MD

Founder: American Telemedicine Association Professor of Medicine: John Hopkins School of Medicine, USA

Prof Dr Jay Sanders M.D., FACP, FACAA&I, FATA

Founder & President Emeritus: American Telemedicine Association

Professor of Medicine (Adj): Johns Hopkins School of Medicine

Former Director of Telemedicine: Medical College of Georgia, USA CEO: The Global Telemedicine Group, USA



Mr CHARLES LOWE MBA

Past President of the Royal Society of Medicine UK's Telemedicine & eHealth Section. CEO Digital Health & Care Alliance, Chair of the Board of Trustees, Citizens Online, Business Development Advisor of Medical City Online, UK.

Charles has a background in digital health, working in both public & private sectors. His recent work has centred on the regulation & assessment of mHealth apps. He is also a Contributing Editor to



Mr Jonathan M Fuchs FACHE

Mr Fuchs is the Chief Operating Officer of The Kidder Street Consulting Group, a US-based IT and HIT consultancy. He is a veteran health care executive with significant experience in managed care, health care management and operations.



Prof (WILLIAM) ANGUS WALLACE

FRCS (Ed & Eng), FRCSEd (Orth), FFCI(UK), FFSEM(UK)

QUALIFICATIONS

MB ChB University of St Andrews (1972)

Royal College of Surgeons of Edinburgh (1977) FRCS (Ed) FRCSEd (Orth) Royal College of Surgeons of Edinburgh (1985)

FRCS(Eng) Royal College of Surgeons of England (1996)

Corresponding Fellow, American Shoulder & Elbow Surgeons (ASES - 1996)



DR. SOHAIL CHUGHTAI





Nominated for the **Honours List of Overseas** Pakistanis for outstanding services to the country for Covid-19 Fight via **Telemedicine Services**







Tuesday, 30 June 2020, 9:48:03 pm

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CURRENT AFFAI

Sehat Ghar project to be started in seven districts of southern Punjab: Dr. Yasmin

June 27, 2020





Punjab Minister for Health, Dr. Yasmin Rashid has said that Sehat Ghar project will be started in seven districts of the southern Punjab.

She stated this while addressing a meeting in Lahore today (Saturday).

On this occasion, Special Secretary Ajmal Bhatti briefed her about functionality of Urban Primary Healthcare System and Sehat Ghar project.

The Minister said that Sehat Ghar will be functional after provision of facilities and the project will help provide better medical facilities to the masses

She said that the Pilot Project of Tele Medicine will be run in Lahore.

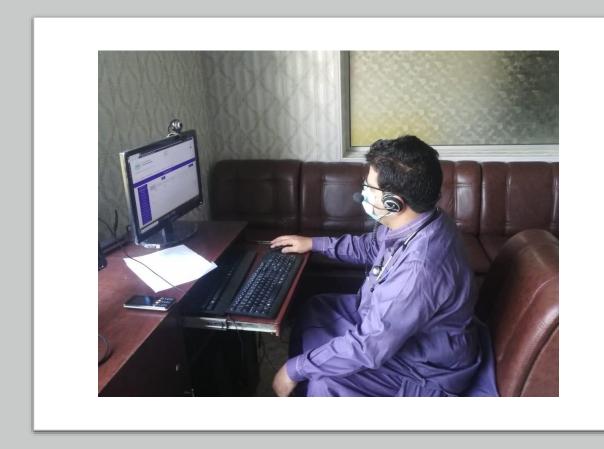
She said that clinical audit is tremendously important which will improve the situation in public hospitals.

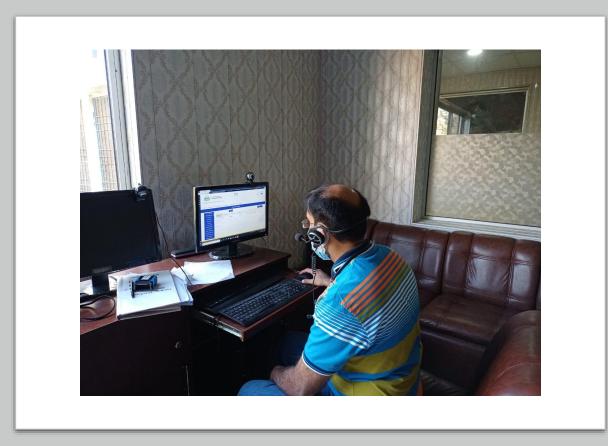
She said that recovery of patient is the key to success of doctors.

Dr Yasmin Rashid said that the patient ratio have been increased in public hospitals of province after better medication and health facilities there.

Field Tests in Pakistan on standard Windows' PC or Android Tablet 350 KB/sec upload speed required

Satisfactory Result of Live Medical Tele-consultations with Medical Data Sharing

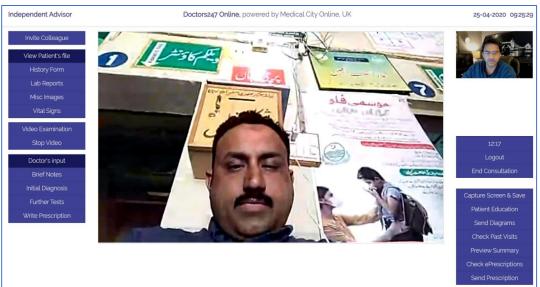




Field Tests in Pakistan on Android Tablets at Patient's end

350 Kb/sec upload speed required — 3G Telecom Network sufficient Live Medical Tele-consultations done in remote areas of Pakistan









Technology Limitation Challenges in Rural Areas

Troubleshooting by Medical City Online Team via Software Adaptations

- Intermediary data placement to prevent latency of information loading
- Tiny push-code technology to prevent bottleneck of bandwidth limitation
- Data Fragmentation and Reassembling with minimal latency using advanced algorithms
- Using processor power of the device, rather than bandwidth quality
- Simplicity of page loading and optimization of user interface
- Software language selection (HTML 5 with MVC) and App Optimization
- Fast Data Operation Hardware Server Micro-Processor and RAM selection
- Minimizing Clicks and Screens Neat and Lean Code
- Placing Accessory Server nodes in suitable geographical regions
- Using RAID V Server to improve Live Video Delivery
- Code-Loading Time optimization Trimmed, Lean Software Code





24 Hours Free Online Medical Consultations

Telemedicine Helpline

Financial support by PPAF via Emergency Response Fund

Technical Support by UHS - Project Facilitation by Akhuwat

Telemedicine Technology, powered by Medical City Online UK



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Dr. 5 UHS Lahore

Offline



PPAF COVID-19

TELEMEDICINE HELPLINE CENTER

Implemented By AKHUWAT Through Technical Facilitation by LHS Lindor FRAT Florated Support

يو نيورشي آف بهيلته سائنسز لا ہور

Dr. 2: UHS, Lahore

Online















24 Hours Free Online Medical Consultations

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Telemedicine Software for Rural Population with Telemedicine Hub based in Lahore









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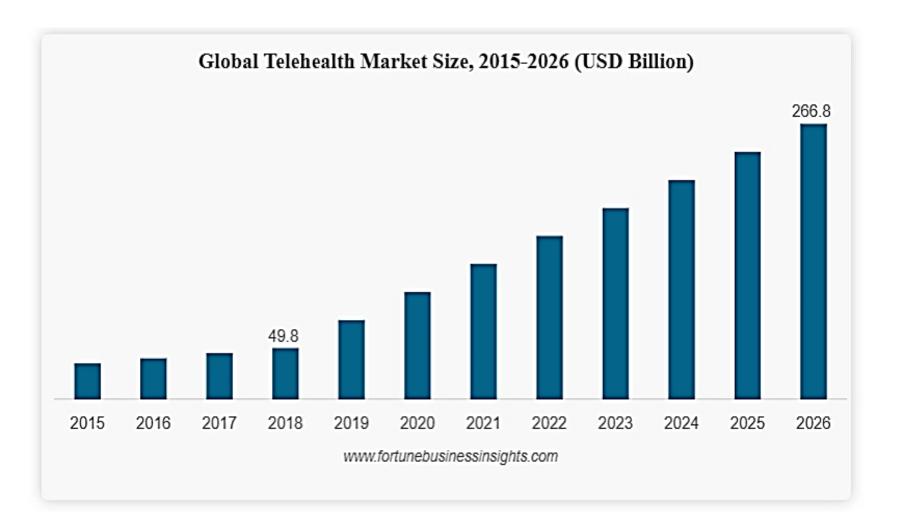


Launch of Department of Telehealth at UHS, Lahore, Pak Feb 2021 – Faculty Lead: Dr Suhail Chughtai





Telehealth to revolutionize Pak Healthcare





THE OVERALL IMPACT

- Lowered Logistic Burden
- Lowered Social Burden
- Lowered Financial Burden
- Lowered Environment Burden
- Lowered Process Burden
- Lowered Building and People Requirement
- Lowered Disease Burden