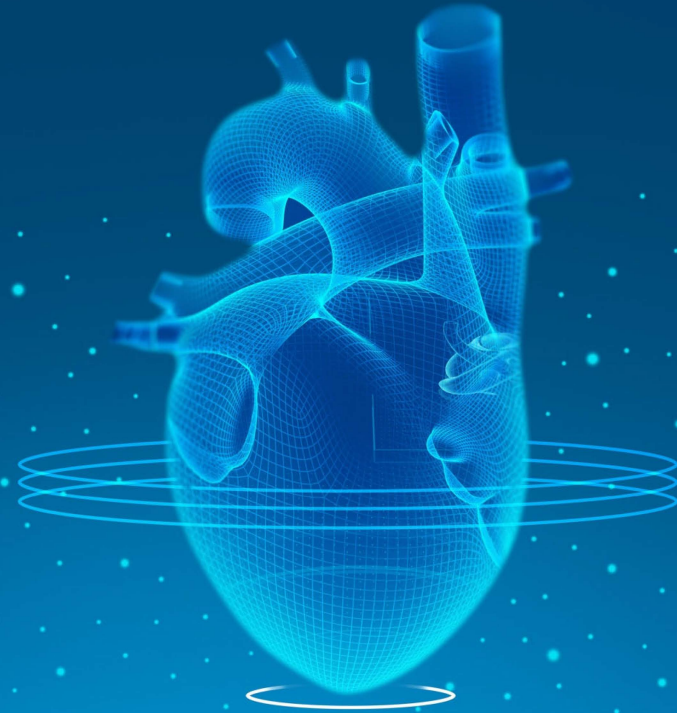






GRAND ROUNDS




 MINNEAPOLIS
HEART
INSTITUTE

 Allina Health
ABBOTT
NORTHWESTERN
HOSPITAL

Medical Mission Trips

Gaza Strip

2010, 2011, 2012, 2015, 2018, 2019, 2021







Nedaa Skeik, MD, FACC, FACP, FSVM, RPVI


Professor of Medicine
Section Head, Vascular Medicine
Medical Director, Thrombophilia/Anticoagulation Clinic
Medical Director, Vein Center
Medical Director, Vascular Laboratory
Minneapolis Heart Institute® Abbott Northwestern Hospital

1

Disclosures

-  Consulting and speaking for Pfizer, J&J, A.Z., NNI, and BSC
Medical mission fund from Medtronic
-  No financial conflict related to this talk
-  Information: WHO and local health systems

 MINNEAPOLIS
HEART
INSTITUTE

 Allina Health
ABBOTT
NORTHWESTERN
HOSPITAL

2

Successful Medical Mission

- **Location:** accessibility, safety, accommodation
- **Patients:** most in need
- **Logistics:**
 - Coordination with local health teams
 - Sponsoring health organization
 - Equipment and supplies
 - Staff
 - Time and weather
- **Fund:** self or organizational (Volunteer Match/Allina)
- **Physician:**
 - Experience (limited resources and hardship)
 - Unbiased...



3

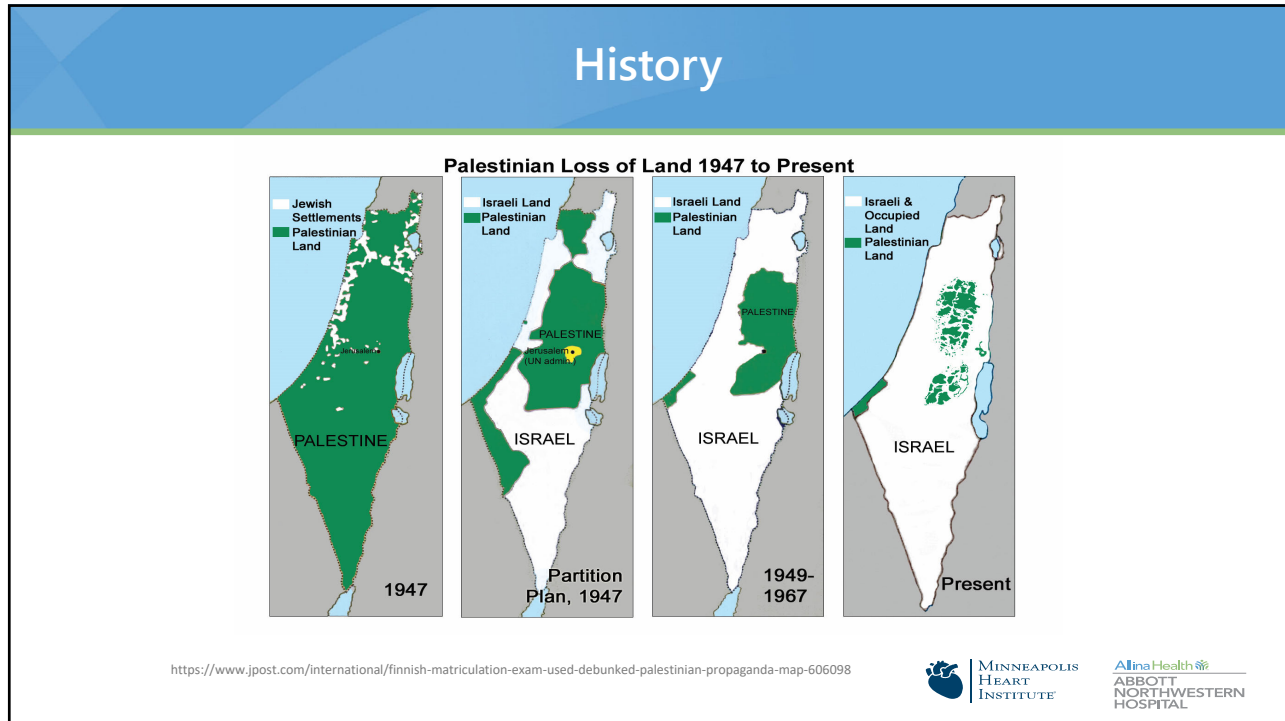
3

Map

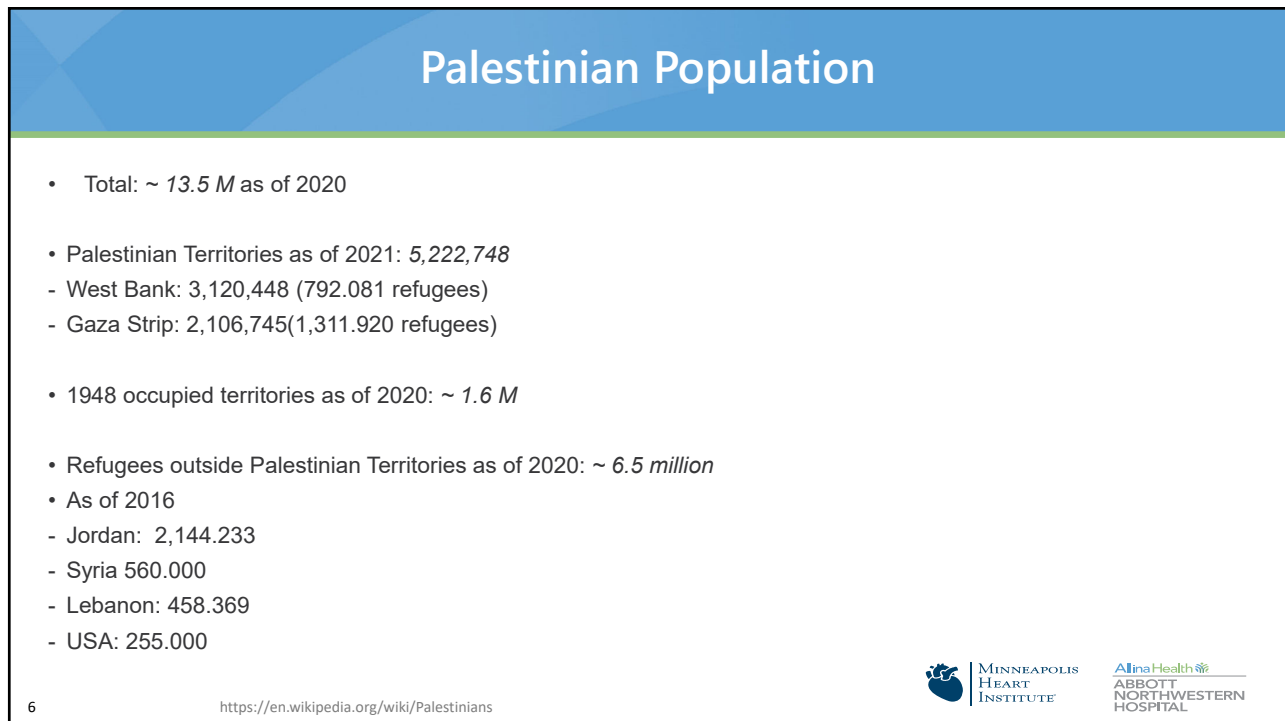


4

4



5





6

Gaza Strip Under Strict Closure

- Electrical power outage: ~ 20 hours a day!
- Food insecurity: 50-60%
- Less than 10% of municipality water is drinkable
- High unemployment (>Rwanda) and extreme poverty
- Resources and coping mechanisms already exhausted
- Industrial, agricultural, financial and business aspects of life are collapsing



9
Courtesy: WHO office in Gaza

9

Indicator	Gaza	Selected Arab Countries
Population density per km ²	4279	44 in Morocco; 111 in Syria
Unemployment	30-40%	Syria, 12; Egypt 10, Tunisia 15,
Below poverty line (fluctuating)	40-85%	24% in Lebanon; 30% in Egypt
Adult literacy rate (above 15 years old)	95.5%	80% in Syria, Lebanon 60% in Morocco
Health expenditure	8-11%	9% in Jordan, 3.7% Egypt
Life expectancy	71	Same ; 73-74

Courtesy: WHO office in Gaza

10

Refugee Camps



11



11

Refugee Camps



12



12

Palestinian Children Completing Homework with Candlelight During Power Outage in Gaza City



MINNEAPOLIS
HEART
INSTITUTE

AlinaHealth
ABBOTT
NORTHWESTERN
HOSPITAL

13

13

Children & Poverty



MINNEAPOLIS
HEART
INSTITUTE

AlinaHealth
ABBOTT
NORTHWESTERN
HOSPITAL

14

14

Youth with Hopeless Future



15

July 2014



15

Health System Under Closure

- Health system in Gaza is close to collapse due to electricity crisis
- Hospitals could be in complete darkness any time
- Hospitals reliant on emergency generators for up to 20 hours a day
- About 500,000 liters of fuel are required a month to sustain critical care
- Power outage has made it harder to store blood products.
- Sanitation workers were on strike due to payment cut

16

Courtesy: WHO office in Gaza



16

Health System Has Been Under Attack



17

July 2014



17

Residential Buildings Targeted



18

May 2021



18

Physicians Lost Their Lives: Dr. Ayman Abu Al Ouf



19



19

Medical Supply Shortage

- At least 200 babies in ICUs waiting a fatal outcome
- Many dialysis and ventilator patients' lives in jeopardy
- ORs lack sterilization and operation equipment
- Critical medications shortage
- November 2017: 43 % of total essential drugs and 48% of ED and ICU drugs were at zero stock

20

Courtesy: WHO office in Gaza



20

Medication Shortage



21



MINNEAPOLIS
HEART
INSTITUTE

AlinaHealth
ABBOTT
NORTHWESTERN
HOSPITAL

21

Operation Rooms Without Power



22



MINNEAPOLIS
HEART
INSTITUTE

AlinaHealth
ABBOTT
NORTHWESTERN
HOSPITAL

22

Limited Access to Health Care

- October 2017: 45% of urgent health related travel permits were denied by the Israeli authorities.
- Palestinian authority failed to cover many health referral costs outside of Gaza
- At least 30 deaths in 2017 due to travel ban
- Several hospitals have shut down due to limited resources
- The UN is calling for \$374m to meet humanitarian needs in the Gaza Strip

23

Courtesy: WHO office in Gaza



23

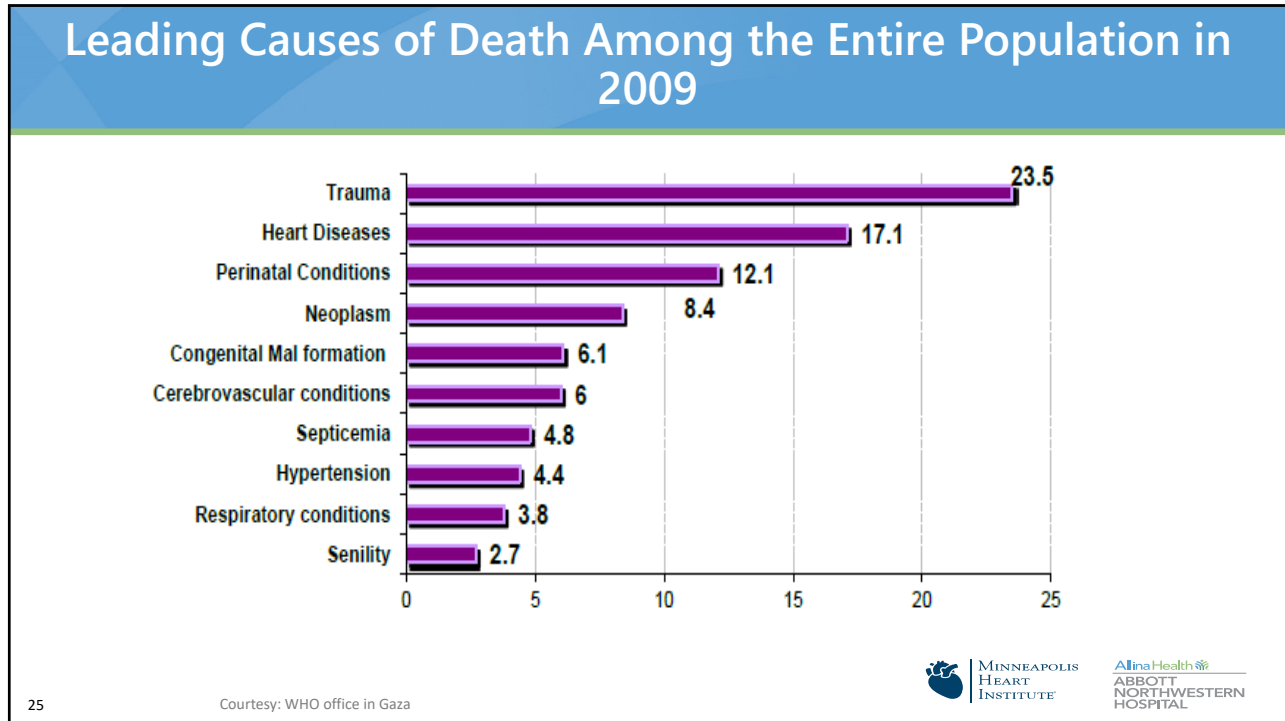
Premature Babies Squeezed in one Incubator at Shifa Hospital in Gaza



24



24



25

Medical Missions

- The Palestinian Children Relief Fund (www.PCRF.net)
- Over the past 6 years, over 500 medical teams including thousands of volunteers from all over the world have travelled to the Middle East through the PCRF to treat thousands of children
- In 2017: 127 medical missions, 2347 patients screened, 1284 patients operated on with 326 medical volunteers

26

PCRF.net

MINNEAPOLIS HEART INSTITUTE

AlinaHealth ABBOTT NORTHWESTERN HOSPITAL

26

Gaza PCRF Office Destroyed in Air-strike

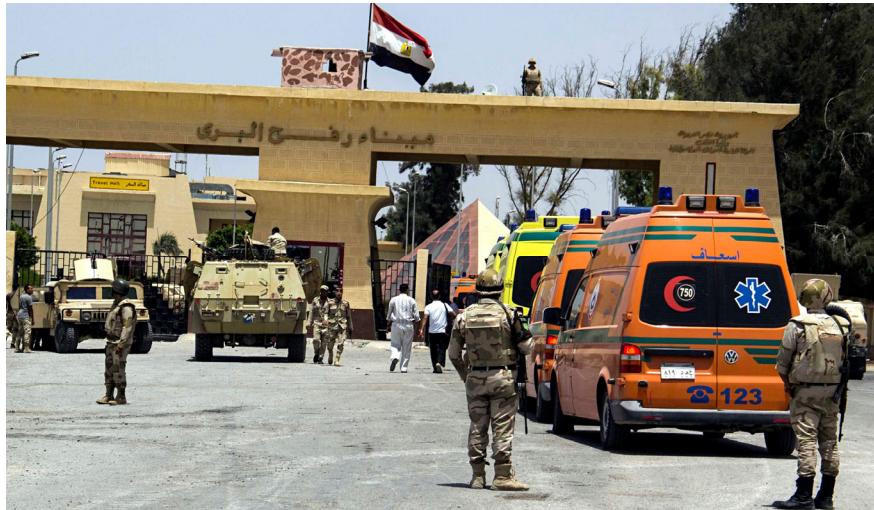


27 May 2021



27

Rafah Crossing Borders Very Limited Access Over Years



28



28

Patients Waiting to Cross



29



29

Allenby Bridge Crossing Point



30



30

Erez Crossing Point



31



31

Shifa Hospital/Gaza



32

Summer 2015



32

Vascular Surgery Team, Shifa Hospital



33

Summer 2015



33

Nursing Staff/Shifa Hospital



34

Summer 2015



34

Waiting Area



35

Summer 2015



35

Patient with Sturge-Weber Syndrome



36

Summer 2015



36

Patient with KTS



37

Summer 2015



37

Exam Room



38

Summer 2015



38

Exam Room



39

Summer 2015



39

Exam Room



40

Summer 2015



40

Shifa Hospital Procedure Room



41

Summer 2015



41

Shifa Hospital Procedure Room



42

Summer 2015



42

Shifa Hospital Procedure Room



43

Summer 2015



43

Shifa Hospital Procedure Room



44

Summer 2015



44

Shifa Hospital President



45

Summer 2015



45

Shifa Hospital OR



46

Summer 2018



46

Shifa Hospital OR



47 Summer 2018

 MINNEAPOLIS HEART INSTITUTE

 Alina Health

 ABBOTT NORTHWESTERN HOSPITAL

47

Shifa Hospital OR



48 Summer 2018

 MINNEAPOLIS HEART INSTITUTE

 Alina Health

 ABBOTT NORTHWESTERN HOSPITAL

48

Shifa Hospital OR



49

Summer 2018



49

Indonesian Hospital OR



50

Summer 2019



50

Indonesian Hospital OR



51 Summer 2019

 MINNEAPOLIS
HEART
INSTITUTE

 Alina Health
ABBOTT
NORTHWESTERN
HOSPITAL

51

Indonesian Hospital OR



52 Summer 2019

 MINNEAPOLIS
HEART
INSTITUTE

 Alina Health
ABBOTT
NORTHWESTERN
HOSPITAL

52

Stab Phlebectomy



53

Summer 2019



53

Venous Malformation



54

Summer 2019



54

Vascular Surgery Head/Shifa Hospital



55

Summer 2019



55

2021 Medical Mission, Shifa Hospital




56





56

Venous Stasis Ulcer



57 Summer 2021

57

Shifa Procedure Room



58 Summer 2021

58

Shifa Procedure Room



59

Summer 2021



59

Shifa Procedure Room



60

Summer 2021



60

Shifa Procedure Room



61

Alina Health
ABBOTT
NORTHWESTERN
HOSPITAL

61

Al-Azhar University Medical Student



62

Summer 2021

MINNEAPOLIS
HEART
INSTITUTE

Alina Health
ABBOTT
NORTHWESTERN
HOSPITAL

62

Al-Azhar University Education Staff



63

Summer 2021



63

City of Gaza



Mohammed Fayed
photography

64

Summer 2021



64

City of Gaza



65 Summer 2021

 MINNEAPOLIS
HEART
INSTITUTE

 Alina Health
ABBOTT
NORTHWESTERN
HOSPITAL

65

Gaza Port



66

 MINNEAPOLIS
HEART
INSTITUTE

 Alina Health
ABBOTT
NORTHWESTERN
HOSPITAL

66

Gaza Beach



67

 MINNEAPOLIS
HEART
INSTITUTE

 Alina Health
ABBOTT
NORTHWESTERN
HOSPITAL

67

Sunset Gaza



68

 MINNEAPOLIS
HEART
INSTITUTE

 Alina Health
ABBOTT
NORTHWESTERN
HOSPITAL

68

Remal Region, Gaza



69



69

Remal Region, Gaza



70



70

UNRWA Elementary and Middle Schools, Gaza



71



71

Shajaiye Refugee Camp from Montar Height



72



72

Firas Bazar



73



73

Firas Bazar



74



74

Gaza Old Veggie Bazar



75



75

Fehmi Bek Square



76



76

Jerusalem



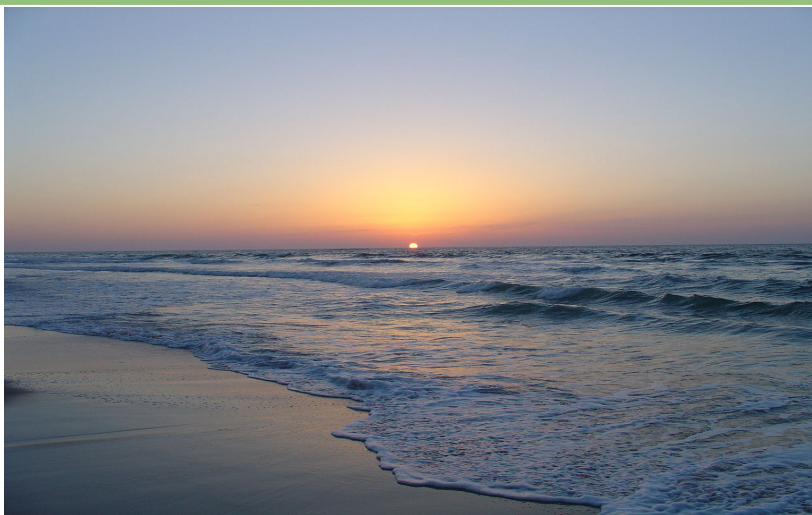
77



77

Thank You!

- Volunteer Match/ Allina
- PCRF
- Medtronic
- Family (wife..)



78



78